



Sage-grouse Conservation Forecasting for
Barrick's Bank Study Area and Deep South Expansion Project Plan of Operations
Study Area Study Areas

Appendices

Draft Final Report to Barrick Gold Corp., Elko, NV

Table of Appendices

APPENDIX 1: Working descriptions of Ecological Systems (Biophysical Settings) and their Vegetation Classes on Barrick Project Areas	3
APPENDIX 2: Crosswalk Between NRCS Ecological Sites and TNC’s Ecological Systems	56
APPENDIX 3: Python resampling script for 1.5m to 60m raster resolution	62
APPENDIX 4-A: Model Deterministic (Succession) Transitions	65
APPENDIX 4-B: Model Probabilistic Transitions	81
APPENDIX 5: Temporal Multipliers	149
APPENDIX 6: Cost and Success Rate of Management Actions	164
APPENDIX 7: Unified Ecological Departure	168
APPENDIX 8: Greater Sage-Grouse Habitat Suitability	181
APPENDIX 9: Assessment of Loss of Secondary Productivity of Hummocked Wet Meadows	192
APPENDIX 10: Management Workshop Agendas and Participant Lists	194
APPENDIX 11: Barrick Bank Study Area Accuracy Assessment Report.....	199

APPENDIX 1: Working descriptions of Ecological Systems (Biophysical Settings) and their Vegetation Classes on Barrick Project Areas

Table of Contents

	<u>Page</u>
Agriculture (10070)	4
Aspen-Mixed Conifer (ASM) (10610)	4
Aspen Woodland (ASP) (10110).....	4
Badland (10002).....	5
Barren-Playa (10001)	5
Barren-Rock-Mud(10000).....	6
Basin Wildrye-bottomland (BWb) (10803)	6
Basin Wildrye-montane (BWm) (10801)	8
Big Sagebrush-semidesert (BSsd) (10802)	10
Big Sagebrush Shrubland-upland with trees (WSup)(10804)	12
Black Sagebrush (BS)(10791)	16
Bluebunch Wheatgrass Grassland (BWG)(11230).....	19
Curl-leaf Mountain Mahogany (CMM)(10620)	20
Desert Wash (DW)(11544).....	21
Developed-Town(10011).....	22
Developed-Power Plant(10012).....	22
Four-Wing Saltbush (FWS)(10811).....	22
Greasewood (GW)(11530).....	23
Limber Pine Woodland (LB)(10200)	25
Low Sagebrush (LS)(10790).....	25
Low Sagebrush Steppe (LSS)(11240)	27
Mine-Active(10060)	28
Mine-Inactive(10061).....	28
Mixed Salt Desert (MSD)(10810)	29
Moist Floodplain (MF)(11541)	30
Montane Riparian (MR)(11540).....	33
Montane Sagebrush Steppe-subalpine (MSSs)(11261)	36
Montane Sagebrush Steppe-upland (MSSu)(11260).....	38
Mountain Shrub (MSh)(11060).....	42
Pickleweed(PW)(11531)	44
Pinyon-Juniper Woodland (PJ)(10190).....	44
Roads-Local(10032).....	45
Roads-Paved(10031)	45
Saline Meadow (SM)(11451)	46
Semi-Desert Grassland (SDG)(11350).....	47
Subalpine-Upper Montane Grassland (SMG)(11400).....	48
Water(10040)	49
Wet Meadow - bottomland (WMb)(11452)	49
Wet Meadow - montane (WM)(11450).....	51
Wetland (WL)(11543).....	53
Winterfat (WF)(10812).....	54

Agriculture (10070)	10070 – potentially GSG habitat
U-A:Pasture 10070119	Pasture: Either irrigated, leveled, or otherwise maintained pasture. Pasture can be active or fallow. Usually native vegetation has been removed, reseeded, or “improved.”
U-A:Agriculture 10070122	Agriculture: Generally alfalfa, although other crops can be present. Includes fallow agricultural lands. Active or abandoned center pivots nearly always present.
Aspen-Mixed Conifer (ASM) (10610)	10610 – not GSG habitat
	Overview: The Aspen-Mixed Conifer BpS is commonly called “seral aspen.” <i>Populus tremuloides</i> is the dominant tree species, except in late succession where prolonged fire exclusion and ungulate herbivory allow dominance by mixed conifers, such as white fir (<i>Abies concolor</i>) and limber pine (<i>Pinus flexilis</i>). The presence of even a single aspen tree in a stand provides strong evidence that the area historically supported aspen clones. This BpS typically occurs on flat to steep terrain (<80%) on all aspects. Elevation generally ranges from 1,700 m to 2,800 m (5,600’ to 9,200’). Soils are highly variable, but generally cool. This type occurs above the juniper and/or sagebrush zones. Aspen stands that are difficult to “see through” are considered healthy. Shrub, forb, and grass species typical of mesic sites are very diverse and plant cover is very high.
A 10610010 ¹	Early-all: 10-100% cover aspen <4.9m; mountain snowberry and <i>Ribes</i> common; 0-9 yrs
B 10610021	Mid1-closed: 40-99% cover aspen 5-9.9m; mountain snowberry and <i>Ribes</i> common; 10-39 yrs
C 10610030	Mid2-closed: 40-99% cover aspen 10-24m; conifer saplings visible in mid-story; mountain snowberry and <i>Ribes</i> common; 40-79 yrs
D 10610042	Late1-open: 10-39% cover aspen 10-25 m; 10-25% mixed conifer cover 5-10 m; mountain snowberry and <i>Ribes</i> common; >80 yrs
E 10610050	Late1-closed: 40-80% cover of mixed conifer 10-50m; <40% cover of aspen 10-25m; mountain snowberry and <i>Ribes</i> present; >100 yrs
U-ASM->MC (aka: No-ASP) 10610109	Loss of clone: permanent conversion to Mixed Conifer – 1052; >50% white fir and/or limber pine cover; aspen absent or in trace amount; dead aspen boles may be present
Aspen Woodland (ASP) (10110)	10110 – not GSG habitat
	Overview: The Aspen Woodland BpS is dominated by <i>Populus tremuloides</i> and is commonly called “stable aspen.” Aspen woodland is a debated BpS as it is assumed, but not proven, that soils prevent encroachment of conifers even with fire exclusion, therefore maintaining the <u>relative</u> cover of conifers to <25%. Where the BpS is adjacent to conifers, an occasional conifer seedling may occur, but conifers do not drive the fire regime. Elevations generally range from 1,981 m to 2,743 m (6,500’-9,000’), but occurrences can be found at lower elevations, and average annual precipitation ranges

¹ Remote Sensing code (geotiff code)

	from 36 cm to >51 cm (14" to >20"). Distribution of this ecological system is limited primarily by adequate soil moisture required to meet its high evapotranspiration demand, and secondarily by the length of the growing season or low temperatures. This BpS occurs commonly as multi-storied stands. Stands are usually closed. Aspen suckers 1.5 m to 4.6 m (5-15') tall will be present in all classes (min. 500 stems/acre). The BpS also includes aspen thickets that occur on concave shoulders of mountains and plateaus on northerly aspects or on the lee-side of snow-blown plateau and mountain summits. Snow accumulation prevents full development of aspen as tall trees. The Aspen Woodland BpS typically occurs above juniper and adjacent to mountain big sagebrush. At elevations below 6,500 feet this group grades into black (<i>Populus balsamifera</i>) and narrowleaf cottonwood (<i>Populus angustifolia</i>) types along riparian corridors. Understory consists of abundant herbaceous and shrub components. Often species of tall forbs, perennial grasses and shrubs are found in the understory. The herbaceous layer may be lush and diverse.
A 10110010	Early-all: 10-100% cover of aspen <5m; 0-9 yrs
B 10110021	Mid1-closed: 40-99% cover of aspen 5-9.9m (this class also includes aspen thickets caused by heavy snow bank deposition); 10-39 yrs
C 10110030	Late1-closed: 40-99% cover of aspen 10-25m; few conifers in mid-story; 39 -99 yrs
D 10110042	Late1-open: 10-39% cover of aspen 10-25 m; conifers may be present but less than 25% relative cover; >99 yrs
U-B:Depleted (aka: DP) 10110203	Depleted-Mid1-open: 10-39% cover of pole size aspen <5-9.9m; no or little aspen regeneration; mountain big sagebrush common in understory; high visibility through the midstory; at most few conifers in mid-story; 10-39 yrs
U-C:Depleted (aka: DP) 10110303	Depleted-Late1-open: 10-39% cover of aspen 10-25m; no or little aspen regeneration; mountain big sagebrush common in understory; high visibility through the midstory; at most few conifers in mid-story; 39 -99 yrs
U-D:Depleted (aka: DP) 10110403	Depleted-Late2-open: 10-39% cover of older aspen 10-25m; no or little aspen regeneration; mountain big sagebrush common in understory; high visibility through the midstory; at most few conifers in mid-story
U:ASP->MSS (aka: No-ASP) 10110109	Loss of clone: permanent conversion to montane sagebrush steppe - 1126; dead clone of aspen; very few aspen stems present; dead boles may be visible on the ground; 5-50% cover of mountain big sagebrush/mountain shrub; <50% herbaceous cover
Badland (10002)	10002 – not GSG habitat
A:Bare Ground 10002001	Bare Ground: Barren localized geologic features with no or barely any observable vegetation. Often associated with paleo-lacustrine erosional features or eroded un-welded tuff. Soil or surface material often white or very reflective.
A: Sparse 10002002	Sparse: Sparsely vegetated (<5% total vegetation cover) localized geologic features. Often associated with paleo-lacustrine erosional features or eroded un-welded tuff. Soil or surface material often white or very reflective.
Barren-Playa (10001)	10001 – not GSG habitat
A (aka: Playa) 10001001	Playa: Dry lake made of evaporated salts. Sometimes inundated.

Barren-Rock-Mud(10000)	10000 – not GSG habitat
	Overview: This feature can be present as natural barren areas of soil, rock, or mud, or human-caused barren areas.
A 10000001	Bare Ground: natural barren areas of soil, rock, or mud
U-A:Bare ground 10000101	Bare Ground: Human-caused barren area
Basin Wildrye-bottomland (BWb) (10803)	1080bwb or 10803² – not GSG habitat
	Overview: The Basin Wildrye-bottomland BpS is a grassland dominated by basin wildrye (<i>Elymus cinereus</i>). Many locations occur at the bottom of broad valleys and on alluvial flats at elevations of 1,219 m to 1,829 m (4,000' to 6,000') with slopes between 0-4%, although more typically <2%. Soils have water tables that may attain depths of 150 to 75 cm (60" to 30"). The BpS occurs on two sites in the landscape: (i) Dry floodplains (NRCS site name) at the outer margins of axial-stream floodplains, fan skirts and along intermittent drainages and (ii) saline bottoms (NRCS site name) on lake-plain terraces, stream terraces and on the margin of axial-stream floodplains. On lower precipitation sites, these locations may be positioned at the base of slopes such that water may run onto these sites. Typically soils are deep to very deep with loamy to coarse loamy textures. Soils are well drained with water tables below the rooting zone of the dominant shrubs. Salts, if present, can increase with depth. Annual precipitation ranges from 20 to 25 cm (6" to 10"). Not much is written specifically about the dynamics of this BpS but research is being conducted to determine if dry floodplains are really incised moist floodplains underlain by wetland soils with artificially lowered water tables. This is a grassland-shrubland mixture dominated by basin wildrye, a deep-rooted cool-season bunchgrass, where the dominant shrub species varies with salt content later in succession. On saline bottoms, black greasewood (<i>Sarcobatus vermiculatus</i>) is the dominant shrub with basin big sagebrush (<i>Artemisia tridentata</i> spp. <i>tridentata</i>) sub-dominant. Basin big sagebrush is the dominant shrub on less saline and more productive soils. Other shrubs generally represent less than 10 % of the overall cover and include various species and subspecies of rubber, green, and gray rabbitbrush (<i>Chrysothamnus</i> and <i>Ericameria</i> spp.). Other grasses are generally cool season bunchgrasses, with the exception of some rhizomatous grasses on the dry meadows with deep soils and high precipitation. Forbs represent less than 10 % of the herbaceous cover.
A 10803010	Early-all: 5-20% cover of basin wildrye; 0-10 yrs
B 10803021	Mid-closed: 21-80% cover of basin wildrye; <11% shrub (basin big sagebrush and/or black greasewood – generally at lower elevations) cover; 11-75 yrs
C 10803032	Late-open: 11-20% cover of basin big sagebrush and/or black greasewood, and rabbitbrush; <75% cover of basin wildrye; >75 yrs

² If two codes are listed for the BpS, the first is the code used in the field for brevity and the second is the Geotiff code.

U-A:Annual Spp (aka: AS) 10803100	Annual-Species: >10% cover of non-native annual species; shrubs largely absent
U-A:Bare Ground (aka: BAGR) 10803101	Bare-Ground: Mostly bare ground caused by anthropogenic disturbances
U-C:Depleted (aka: DP) 10803303	Depleted: >20% cover of basin big sagebrush, and/or black greasewood, and rabbitbrush; <5% basin wildrye; >20% mineral soil and litter cover
U-A:Exotic Forb (aka: EF) 10803108	Exotic-Forbs-early: 5-100% exotic forbs (knapweed, tall whitetop, thistles, halogeton, purple loosestrife); <20% cover of basin wildrye
U-B:Exotic Forb (aka: EF) 10803208	Exotic-Forbs-mid: 5-80% exotic forbs (knapweed, tall whitetop, thistles, halogeton, purple loosestrife); 21-80% cover of basin wildrye; 1-11% cover of big sagebrush or greasewood
U-C:Exotic Forb (aka: EF) 10803308	Exotic-Forbs-late: 5-90% exotic forbs (knapweed, tall whitetop, thistles, halogeton, purple loosestrife); 11-20% cover of basin big sagebrush and/or black greasewood (generally at lower elevations), and rabbitbrush; <75% cover of basin wildrye but generally absent
U-A:FoxtailBarley (aka: NGPG) 10803107	Foxtail-Barley-early: 5-100% <i>Hordeum jubatum</i> ; basin big sagebrush and/or greasewood absent; 0-20% cover of basin wildrye
U-B:FoxtailBarley (aka: NGPG) 10803207	Foxtail-Barley-mid: 5-80% <i>Hordeum jubatum</i> ; 1-10% cover of big sagebrush and/or greasewood; >20% cover of basin wildrye
U-C:FoxtailBarley (aka: NGPG) 10803307	Foxtail-Barley-late: 5-90% <i>Hordeum jubatum</i> ; >10% cover of basin big sagebrush and/or black greasewood; <75% cover of basin wildrye but generally absent
U-A:Early Shrub (aka: ES) 10803105	Early-Shrub-early: >20% cover of rabbitbrush or snakeweed species; big sagebrush or greasewood uncommon; native grasses present; <5% cover of non-native annual species
U-B:Early Shrub (aka: ES) 10803205	Early-Shrub-mid: >20% cover of rabbitbrush or snakeweed species; 1-10% cover of big sagebrush or greasewood; native grasses present; <5% cover of non-native annual species
U-C:Early Shrub (aka: ES) 10803305	Early-Shrub-late: >20% cover of rabbitbrush or snakeweed species; >10% cover of big sagebrush or greasewood; native grasses may be present; <5% cover of non-native annual species
U-A:Pasture (aka: PAS) 10803119	Pasture: Agricultural pasture irrigated or fallow
U-B:SA 10803221	Shrub-Annual-Species-mid: ≥5% cover of non-native annual species; ≤10% cover of native shrubs; ≤5% basin wildrye
U-C:SA 10803321	Shrub-Annual-Species-late: ≥5% cover of non-native annual species; >10% cover of native shrubs; ≤5% basin wildrye
U-A:SAP (aka: ASPG) 10803124	Shrub-Annual-Species-Perennial-Grass-early: ≥5% cover of non-native annual species; 5-20% basin wildrye and other native grasses; shrubs largely absent
U-B:SAP 10803224	Shrub-Annual-Species-Perennial-Grass-mid: ≥5% cover of non-native annual species; 21-80% basin wildrye; ≤10% cover of native shrubs
U-C:SAP 10803324	Shrub-Annual-Species-Perennial-Grass-late: ≥5% cover of non-native annual species; >10% cover of native shrubs; <75% basin wildrye

U-A:Seeded Native (aka:SD) 10803135	Seeded-native-early: 5-20% seeded basin wildrye, other native grasses, forbs; shrubs generally absent; <5% non-native annual species (if ≥5 non-native annual species, then U-A:SAP or even U-A:Annual Species)
U-B:Seeded Native (aka:SD) 10803235	Seeded-native-mid: >20% seeded basin wildrye, other native grasses, forbs; 1-10% cover of big sagebrush and/or greasewood; <5% non-native annual species (if ≥5 non-native annual species, then U-B:SAP or even U-B:SA)
U-A:SI (aka: SDI-A) 10803129	Seeded-Introduced-early: >10% seeded introduced grasses, with native grasses and forbs possible; <5% of non-native annual species
U-B:SI (aka: SDI-B) 10803229	Seeded-Introduced-mid: >10% seeded introduced grasses, with native grasses and forbs possible; 1-10% cover of big sagebrush and/or greasewood; <5% of non-native annual species
U-C:SI (aka: SDI-C) 10803329	Seeded-Introduced-late: >10% seeded introduced grasses, with native grasses and forbs possible; >10% cover of basin big sagebrush and/or greasewood; <5% of non-native annual species
U-A:SI+AS 10803138	Seeded-Introduced+Annual-Species-early: >10% seeded introduced grasses, with native grasses and forbs possible; shrubs generally absent; ≥5% cover of non-native annual species
U-B:SI+AS (aka: SI-B+AS) 10803238	Seeded-Introduced+Annual-Species-mid: >10% seeded introduced grasses, with native grasses and forbs possible; 1-10% cover of basin big sagebrush and/or greasewood; ≥5% cover of non-native annual species
U-C:SI+AS (aka: SDI-B+AS) 10803338	Seeded-Introduced+Annual-Species-late: >10% seeded introduced grasses, with native grasses and forbs possible; >10% cover of basin big sagebrush and/or greasewood; ≥5% cover of non-native annual species
1080bwm or 10801 – GSG habitat	
Basin Wildrye-montane (BWm) (10801)	Overview: The Basin Wildrye-montane BpS is a grassland dominated by basin wildrye (<i>Elymus cinereus</i>). The BpS is found at elevations from about 1,372 m to 2,134 m (4,500' to over 7,000'). Typically soils are deep to very deep with loamy to coarse loamy textures (NRCS's loamy bottom). Soils are well drained with water tables below the rooting zone of the dominant shrubs. Salts, if present, can increase with depth. Soils were formed through alluvial processes and typically form valley bottoms with slopes generally less than 8%, and typically between 0 and 4%. Annual precipitation ranges from 20 to 41 cm (8" to 16"). Many locations occur along valley bottoms outside of the wet meadow areas, but within zones where water tables may attain depths of 150 to 75 cm (60" to 30"). On lower precipitation sites (20 to 25 cm or 8 to 10") these locations may be positioned on dry floodplains at the base of slopes such that water may run onto these sites. Not much is written specifically about the dynamics of this BpS. This is a grassland-shrubland mixture dominated by basin wildrye, a deep-rooted cool-season bunchgrass, with basin big sagebrush or mountain big sagebrush, respectively, subdominant (<15% cover) later in succession below or above 36 cm (14") of precipitation (about 2,134 m or 7,000' of elevation). Other shrubs generally represent less than 10% of the overall cover and include various species and subspecies of rabbitbrush (<i>Chrysothamnus</i> and <i>Ericameria</i> spp.). Other grasses are generally cool season bunchgrasses, with the exception of some rhizomatous grasses on the dry meadows with deep soils and high precipitation. Forbs represent less than 10% of the herbaceous cover.
A 10801010	Early-all: 5-20% cover of basin wildrye; 0-10 yrs

B 10801021	Mid-closed: 21-80% cover of basin wildrye; <11% basin big sagebrush and rabbitbrush cover; 11-75 yrs
C 10801032	Late-open: 11-20% cover of basin big sagebrush and rabbitbrush; <75% cover of basin wildrye; >75 yrs
U-A:Annual Spp (aka: AS) 10801100	Annual-Species: >10% cover of non-native annual species; shrubs largely absent
U-A:Bare Ground (aka: BAGR) 10801101	Bare-Ground: Mostly bare ground
U-C:Depleted (aka: DP) 10801303	Depleted: >20% cover of basin big sagebrush and rabbitbrush; <5% basin wildrye; >20% mineral soil and litter cover
U-A:Exotic Forb (aka: EF) 10801108	Exotic-Forbs-early: 5-100% exotic forbs (thistles, knapweed, tall whitetop, halogeton, purple loosestrife); 0-20% cover of basin wildrye
U-B:Exotic Forb 10801208	Exotic-Forbs-mid: 5-80% exotic forbs (thistles, knapweed, tall whitetop, halogeton, purple loosestrife); 21-80% cover of basin wildrye; 1-10% cover of big sagebrush
U-C:Exotic Forb 10801308	Exotic-Forbs-late: 5-90% exotic forbs (thistles, knapweed, tall whitetop, halogeton, purple loosestrife); >10% cover of basin big sagebrush and rabbitbrush; <75% cover of basin wildrye but generally absent
U-A:Early Shrub (aka: ES) 10801105	Early-Shrub-early: >20% cover of rabbitbrush or snakeweed species; big sagebrush uncommon; native grasses may be present; <5% cover of non-native annual species
U-B:Early Shrub 10801205	Early-Shrub-mid: >20% cover of rabbitbrush or snakeweed species; 1-10% cover of big sagebrush; native grasses may be present; <5% cover of non-native annual species
U-C:Early Shrub 10801305	Early-Shrub-late: >20% cover of rabbitbrush or snakeweed species; >10% cover of big sagebrush; native grasses may be present; <5% cover of non-native annual species
U-A:Pasture (aka: PAS) 10801119	Pasture: Agricultural pasture irrigated or fallow
U-B:SA 10801221	Shrub-Annual-Species-mid: ≥5% cover of non-native annual species; 1-10% cover of native shrubs; ≤5% basin wildrye
U-C:SA 10801321	Shrub-Annual-Species-late: ≥5% cover of non-native annual species; >10% cover of native shrubs; ≤5% basin wildrye
U-A:SAP (aka: ASPG) 10801124	Shrub-Annual-Species-Perennial-Grass-early: ≥5% cover of non-native annual species; 5-20% basin wildrye and other native grasses; shrubs largely absent
U-B:SAP 10801224	Shrub-Annual-Species-Perennial-Grass-mid: ≥5% cover of non-native annual species; 21-80% basin wildrye; 1-10% cover of native shrubs
U-C:SAP 10801324	Shrub-Annual-Species-Perennial-Grass-late: ≥5% cover of non-native annual species; >10% cover of native shrubs; <75% basin wildrye
U-A:Seeded Native (aka:SD) 10801135	Seeded-native-early: 5-20% seeded basin wildrye, other native grasses, forbs; shrubs generally absent; <5% non-native annual species (if ≥5 non-native annual species, then U-A:SAP or even U-A:Annual Species)
U-B:Seeded Native 10801235	Seeded-native-mid: ≥20% seeded basin wildrye, other native grasses, forbs; 1-10% cover of big sagebrush; <5% non-native annual species (if ≥5 non-native annual species, then U-B:SAP or even U-B:SA)
U-A:SI 10801129	Seeded-Introduced-early: >10% seeded introduced grasses, with native grasses and forbs possible; <5% of non-native annual species
U-B:SI 10801229	Seeded-Introduced-mid: >10% seeded introduced grasses, with native grasses and forbs possible; 1-10% cover of big sagebrush; <5% of non-native annual species

U-C:SI 10801329	Seeded-Introduced-late: >10% seeded introduced grasses, with native grasses and forbs possible; >10% cover of basin big sagebrush; <5% of non-native annual species
U-A:SI+AS 10801138	Seeded-Introduced+Annual-Species-early: >10% seeded introduced grasses, with native grasses and forbs possible; shrubs generally absent; ≥5% cover of non-native annual species
U-B:SI+AS 10801238	Seeded-Introduced+Annual-Species-mid: >10% seeded introduced grasses, with native grasses and forbs possible; 1-10% cover of basin big sagebrush; ≥5% cover of non-native annual species
U-C:SI+AS 10801338	Seeded-Introduced+Annual-Species-late: >10% seeded introduced grasses, with native grasses and forbs possible; >10% cover of basin big sagebrush; ≥5% cover of non-native annual species
U-C:TEA 10801344	Tree-Encroached or Tree with Annual Species: ≥10% cover of conifers; ≥0% (i.e., absent to common) cover non-native annual species
	1080sd or 10802 – GSG habitat
Big Sagebrush-semidesert (BSsd) (10802)	
	<i>Overview:</i> The Big Sagebrush semidesert BpS occurs on well-drained and/or shallow loamy soils on foothills, terraces, slopes and plateaus. Wyoming and basin big sagebrush (<i>Artemisia tridentata</i> spp. <i>wyomingensis</i> and <i>A. tridentata</i> spp. <i>tridentata</i>) characterize the BpS, with basin big sagebrush established on hills with deep soils. Elevation ranges from 1,280 m to 1,981 m (4,200' – 6,500'), which corresponds to annual precipitation zones from 20 cm to 30 cm (8 to 12"). The BpS is found on soil depths as shallow as 25 cm (10") and as deep as 152 cm (60+"). When Wyoming and basin big sagebrush are found on deeper soil, annual precipitation is <25 cm (<10"). The BpS is found just above the low elevation salt desert shrub typically unfavorable to tree establishment. Thus, other site characteristics (e.g. aspect, drainage) should be considered in identifying this BpS. At the precipitation extremes, this BpS generally occurs as small patches and stringers. Shrub canopy cover generally ranges from 5 to 25%, but can exceed 30% at the upper elevations, deeper soils, and precipitation zones. Wyoming big sagebrush sites have fewer understory species relative to other big sagebrush types. Rubber rabbitbrush (<i>Ericameria nauseosa</i>) and spiny hopsage (<i>Grayia spinosa</i>) may be co-dominant and basin big sagebrush might occur on concave sites with finer soils. Perennial forb cover is usually <10% and perennial grass cover reaches 40-60% on more productive sites. Thurber's needlegrass may be a dominant species following replacement fires and as a co-dominant after 20 years. Bottlebrush squirreltail (<i>Elymus elymoides</i>), Indian ricegrass (<i>Achnatherum hymenoides</i>), and Sandberg bluegrass (<i>Poa secunda</i>) are common on more xeric sites. Percent cover and species richness of understory are determined by site limitations.
A 10802010	Early-all: ≥10% herbaceous cover; <10% cover of rabbitbrush species; <10% cover of big sagebrush; 0-20 yrs
B 10802022	Mid-open: 10-19% cover of big sagebrush and other shrubs; ≥10% herbaceous cover; 20-39 yrs
C 10802030	Late1-closed: 20%-39% cover of big sagebrush and other shrubs; 10-20% native herbaceous cover; 40-79 yrs
C-Dense (aka: D) 10802031	Late1-dense: ≥40% cover of big sagebrush and other shrubs; ≥5% native herbaceous cover; ≥80 yrs
U-A:Annual Spp (aka: AS) 10802100	Annual-Species: >10% cover of non-native annual grass and forb species; <10% cover of shrubs

U-A:Bare Ground (aka: BAGR) 10082101	Bare Ground: primarily bare ground due primarily to anthropogenic disturbances
U-B:Depleted (aka: DP) 10802203	Depleted-mid: 10-19% cover of big sagebrush, and rabbitbrush; <5% native grass cover dominated by bottlebrush squirreltail and Sandberg bluegrass; <5% non-native annual species; >20% mineral soil and litter cover
U-C:Depleted (aka: DP) 10802303	Depleted-late: 20-39% cover of big sagebrush, and rabbitbrush; <5% native grass cover dominated by bottlebrush squirreltail and Sandberg bluegrass; <5% non-native annual species; >20% mineral soil and litter cover
U-C:DP-Dense (aka: D-DP) 10802302	Depleted-Dense-late: >39% cover of big sagebrush, and rabbitbrush; <5% native grass cover dominated by bottlebrush squirreltail and Sandberg bluegrass; <5% non-native annual species; >20% mineral soil and litter cover
U-A:Exotic Forb (aka: EF) 10802108	Exotic-Forb-early: 5-100% exotic forbs (thistles, halogeton, knapweed); <10% cover of rabbitbrush species; <10% cover of big sagebrush; native grass and forbs may be present
U-B:Exotic Forb (aka: EF) 10802208	Exotic-Forb-mid: 5-100% exotic forbs (thistles, halogeton, knapweed); 10-19% cover of big sagebrush and other shrubs; native grass and forbs may be present
U-C:Exotic Forb (aka: EF) 10802308	Exotic-Forb-late: 5-100% exotic forbs (thistles, halogeton, knapweed); >19% cover of big sagebrush and other shrubs; native grass and forbs may be present
U-A:Early Shrub (aka: ES) 10802105	Early-Shrub-early: >10% cover rabbitbrush species; <5% non-native annual species; native grass may be present
U-B:Early Shrub (aka: ES) 10802205	Early-Shrub-mid: >10% cover rabbitbrush species; 10-19% cover of big sagebrush and other shrubs; <5% non-native annual species; native grass and forbs may be present
U-C:Early Shrub (aka: ES) 10802305	Early-Shrub-late: >10% cover rabbitbrush species; >19% cover of big sagebrush and other shrubs; <5% non-native annual species; native grass may be present
U-B:SA (aka: SA-1) 10802221	Shrub-Annual-Species-open: ≥5% cover non-native annual species; 10%-19% cover of big sagebrush and other shrubs; native grasses rare
U-C:SA (aka: SA-1) 10802321	Shrub-Annual-Species-closed: ≥5% cover non-native annual species; 20%-39% cover of big sagebrush and other shrubs; native grasses rare
U-C:SA-Dense (aka: SA-2) 10802323	Shrub-Annual-Species-dense: ≥5% cover non-native annual species; ≥40% cover of big sagebrush and other shrubs; native grasses rare
U-A:SAP (aka: ASPG) 10802124	Shrub-Annual-Species-Perennial-Grass: ≥5% cover of non-native annual species; ≥5% native grasses; <10% cover of shrubs
U-B:SAP 10802224	Shrub-Annual-Species-Perennial-Grass-open: ≥5% cover non-native annual species; 10%-19% cover of big sagebrush and other shrubs <0.5m; ≥5% cover native grasses
U-C:SAP (aka: SAP-1) 10802324	Shrub-Annual-Species-Perennial-Grass-closed: ≥5% cover non-native annual species; 20%-39% cover of big sagebrush and other shrubs; ≥5% cover native grasses
U-C:SAP-Dense (aka: SAP-2) 10802326	Shrub-Annual-Species-Perennial-Grass-dense: ≥5% cover non-native annual species; ≥40% cover of big sagebrush and other shrubs <0.5m; ≥5% cover native grasses

U-A:Seeded Native (aka: SD) 10802135	Seeded Native: >10% seeded native grasses, forbs, and shrubs; <5% non-native annual species cover (if ≥5 non-native annual species cover, then see U-A:Seeded Native or U-A:Annual Species); <10% shrub cover
U-B:Seeded Native (aka: SD) 10802235	Seeded Native: >10% seeded native grasses, forbs, and shrubs; <5% non-native annual species cover (if ≥5 non-native annual species cover, then see U-B:SAP or U-B:SA); ≥10% shrub cover
U-A:SI (aka: SDI-A) 10802129	Seeded-Introduced-early: ≥10% cover of introduced forage species (e.g., crested wheatgrass, intermediate wheatgrass, or forage kochia); <10% cover of rabbitbrush species; <10% cover of big sagebrush; native grass may be present to common; <5% cover of non-native annual species
U-B:SI (aka: SDI-B) 10802229	Seeded-Introduced-mid-open: ≥10% cover of introduced forage species (e.g., crested wheatgrass, intermediate wheatgrass, or forage kochia); 10-19% cover of big sagebrush; native grass may be present to common; <5% cover of non-native annual species
U-C:SI (aka: SDI-C) 10802329	Seeded-Introduced-late-closed: ≥10% cover of introduced forage species (e.g., crested wheatgrass, intermediate wheatgrass, or forage kochia); 20-39% cover of big sagebrush; native grass may be present to common; <5% cover of non-native annual species
U-C:SI-Dense (aka: SDI-D) 10802331	Seeded-Introduced-late-dense: ≥10% cover of introduced forage species (e.g., crested wheatgrass, intermediate wheatgrass, or forage kochia); ≥40% cover of big sagebrush; native grass may be present to common; <5% cover of non-native annual species
U-A:SI+AS (aka: SI-A+AS) 10802138	Seeded-Introduced +Annual-Species-early: ≥10% cover of introduced forage species (e.g., crested wheatgrass, intermediate wheatgrass, or forage kochia); <10% cover of rabbitbrush species; <10% cover of big sagebrush; native grass may be present to common; ≥5% cover of non-native annual species
U-B:SI+AS (aka: SI-B+AS) 10802238	Seeded-Introduced +Annual-Species-mid-open: ≥10% cover of introduced forage species (e.g., crested wheatgrass, intermediate wheatgrass, or forage kochia); 10-19% cover of big sagebrush; native grass may be present to common; ≥5% cover of non-native annual species
U-C:SI+AS (aka: SI-C+AS) 10802338	Seeded-Introduced +Annual-Species-late-closed: ≥10% cover of introduced forage species (e.g., crested wheatgrass, intermediate wheatgrass, or forage kochia); 20-39% cover of big sagebrush; native grass may be present to common; ≥5% cover of non-native annual species
U-C:SI+AS-Dense (aka: SI-D+AS) 10802339	Seeded-Introduced +Annual-Species-late-dense: ≥10% cover of introduced forage species (e.g., crested wheatgrass, intermediate wheatgrass, or forage kochia); ≥40% cover of big sagebrush; native grass may be present to common; ≥5% cover of non-native annual species
1080up or 10804 – GSG habitat	
Big Sagebrush Shrubland-upland with trees (WSup)(10804)	
	Overview: The Big Sagebrush Shrubland BpS occurs on well-drained soils on foothills, terraces, slopes and plateaus. It ranges from 1,524 m to 2,134 m (5,000' – 7,000') in elevation. It is found on soil depths greater than 45 cm (18") and up to 152 cm (60+"). The BpS occurs from 25 cm to 36 cm (10" to 14") of annual precipitation on drier, shallower soils, and from 20 cm to 30 cm (8 to 12") of annual precipitation on deeper, more productive soils. Thus, site characteristics (e.g. aspect, drainage) should be considered in identifying this BpS. Shrub canopy cover generally ranges from 5 to 25%,

	but can exceed 30% at the upper elevation and precipitation zones. Big sagebrush includes basin big sagebrush (<i>Artemisia tridentata</i> spp. <i>tridentata</i>) and/or Wyoming big sagebrush (<i>A. tridentata</i> spp. <i>wyomingensis</i>) sites. Rubber rabbitbrush (<i>Ericameria nauseosa</i>) may be co-dominant and antelope bitterbrush (<i>Purshia tridentata</i>) should be common. Perennial forb cover is usually <10% and perennial grass cover reaches 20 - 25% on more productive sites. Thurber's needlegrass (<i>Achnatherum thurberianum</i>) and bluebunch wheatgrass (<i>Pseudoroegneria spicata</i>) may be dominant species following replacement fires and a co-dominant after 20 years, but only in precipitation zones above 25 cm (10"). Bottlebrush squirreltail (<i>Elymus elymoides</i>), Indian ricegrass (<i>Achnatherum hymenoides</i>), and Sandberg bluegrass (<i>Poa secunda</i>) are common on more xeric sites. Percent cover and species richness of understory are determined by site limitations. Utah juniper (<i>Juniperus osteosperma</i>) and single-leaf pinyon (<i>Pinus monophylla</i>) can be present, occasionally reaching 50% canopy cover in areas of more productive soils that have escaped fire.
A 10804010	Early-all: ≥10% herbaceous cover; <10% cover of rabbitbrush species; <10% cover of big sagebrush; 0-20 yrs
B 10804022	Mid-open: 10-19% cover of big sagebrush and other shrubs; ≥10% herbaceous cover; 20-39 yrs
C 10804030	Late1-closed: 20%-39% cover of big sagebrush and other shrubs; 10-20% native herbaceous cover; 40-79 yrs
C-Dense (aka: D) 10804031	Late1-dense: ≥40% cover of big sagebrush and other shrubs; ≥5% native herbaceous cover; ≥80 yrs
D (aka: E) 10804041	Late2-open: 5-15% juniper sapling <5m tall; 10-25% cover of big sagebrush; >5% native herbaceous cover; 75-149 yrs
D-Dense 10804042	Late2-open-dense: 5-15% juniper sapling <5m tall; >25% cover of big sagebrush; >5% native herbaceous cover; 75-149 yrs
E (aka: F) 10804050	Late3-closed: >20% juniper cover <10m tall; <10% cover of big sagebrush; >5% native herbaceous cover; ≥150 yrs
U-A:Annual Spp (aka: AS) 10804100	Annual-Species: >10% cover of non-native annual grass and forb species; <10% cover of shrubs
U-A:Bare Ground (aka: BAGR) 10804101	Bare Ground: primarily bare ground primarily due to anthropogenic disturbances
U-B:Depleted (aka: DP) 10804203	Depleted-mid: 10-19% cover of big sagebrush and rabbitbrush; <5% native grass cover dominated by bottlebrush squirreltail and Sandberg bluegrass; <5% non-native annual species; >20% mineral soil and litter cover
U-C:Depleted (aka: DP) 10804303	Depleted-late: 20-39% cover of big sagebrush and rabbitbrush; <5% native grass cover dominated by bottlebrush squirreltail and Sandberg bluegrass; <5% non-native annual species; >20% mineral soil and litter cover
U-C:DP-Dense (aka: D-DP) 10804302	Depleted-Dense-late: >39% cover of big sagebrush and rabbitbrush; <5% native grass cover dominated by bottlebrush squirreltail and Sandberg bluegrass; <5% non-native annual species; >20% mineral soil and litter cover
U-D:Depleted (aka: DP) 10804403	Depleted-late: 5-15% juniper sapling; 20-39% cover of big sagebrush and rabbitbrush; <5% native grass cover dominated by bottlebrush squirreltail and Sandberg bluegrass; <5% non-native annual species; >20% mineral soil and litter cover
U-D:DP-Dense 10804402	Depleted-Dense-late: 5-15% juniper sapling; >39% cover of big sagebrush and rabbitbrush; <5% native grass cover dominated by bottlebrush squirreltail and Sandberg bluegrass; <5% non-native annual species; >20% mineral soil and litter cover

U-A:Exotic Forb (aka: EF) 10804108	Exotic-Forb-early: 5-100% exotic forbs (thistles, halogeton, knapweed); <10% cover of rabbitbrush species; <10% cover of big sagebrush; native grass and forbs may be present
U-B:Exotic Forb (aka: EF) 10804208	Exotic-Forb-mid: 5-100% exotic forbs (thistles, halogeton, knapweed); 10-19% cover of big sagebrush and other shrubs; native grass and forbs may be present
U-C:Exotic Forb (aka: EF) 10804308	Exotic-Forb-late: 5-100% exotic forbs (thistles, halogeton, knapweed); >19% cover of big sagebrush and other shrubs; native grass and forbs may be present
U-A:Early Shrub (aka: ES) 10804105	Early-Shrub-early: >10% cover rabbitbrush species; <5% non-native annual species; native grass may be present
U-B:Early Shrub (aka: ES) 10804205	Early-Shrub-mid: >10% cover rabbitbrush species; 10-19% cover of big sagebrush and other shrubs; <5% non-native annual species; native grass and forbs may be present
U-C:Early Shrub (aka: ES) 10804305	Early-Shrub-late: >10% cover rabbitbrush species; >19% cover of big sagebrush and other shrubs; <5% non-native annual species; native grass may be present
U-B:SA 10804221	Shrub-Annual-Species-open: ≥5% cover non-native annual species; 10%-19% cover of big sagebrush and other shrubs; native grasses rare
U-C:SA (aka: SA-1) 10804321	Shrub-Annual-Species-closed: ≥5% cover non-native annual species; 20%-39% cover of big sagebrush and other shrubs; native grasses rare
U-C:SA-Dense (aka: SA-2) 10804323	Shrub-Annual-Species-dense: ≥5% cover non-native annual species; ≥40% cover of big sagebrush and other shrubs; native grasses rare
U-D:SA (aka: SA-1) 108040421	Shrub-Annual-Species-late1-closed: 5-15% cover of young mixed conifers <3m; ≥5% cover non-native annual species; 10-25% cover of big sagebrush and other shrubs; native grasses rare
U-D:SA-Dense (aka: SA-2) 108040423	Shrub-Annual-Species-late1-dense: 5-15% cover of young mixed conifers <3m; ≥5% cover non-native annual species; ≥25% cover of big sagebrush and other shrubs; native grasses rare
U-A:SAP (aka: ASPG) 10804124	Shrub-Annual-Species-Perennial-Grass: ≥5% cover of non-native annual species; ≥5% native grasses; <10% cover of shrubs
U-B:SAP (aka: SAP-1) 10804224	Shrub-Annual-Species-Perennial-Grass-open: ≥5% cover non-native annual species; 10%-19% cover of big sagebrush and other shrubs <0.5m; ≥5% cover native grasses
U-C:SAP (aka: SAP-1) 10804324	Shrub-Annual-Species-Perennial-Grass-closed: ≥5% cover non-native annual species; 20%-39% cover of big sagebrush and other shrubs; ≥5% cover native grasses
U-C:SAP-Dense (aka: SAP-2) 10804326	Shrub-Annual-Species-Perennial-Grass-dense: ≥5% cover non-native annual species; ≥40% cover of big sagebrush and other shrubs <0.5m; ≥5% cover native grasses
U-D:SAP (aka: SAP-1) 10804424	Shrub-Annual-Species-late1-closed: 5-15% cover of young mixed conifers <3m; ≥5% cover non-native annual species; 10-25% cover of big sagebrush and other shrubs; >5% native grasses cover
U-D:SAP-Dense (aka: SAP-2) 10804426	Shrub-Annual-Species-late1-dense: 5-15% cover of young mixed conifers <3m; ≥5% cover non-native annual species; ≥25% cover of big sagebrush and other shrubs; >5% native grasses cover

U-A:Seeded Native (aka: SD) 10804135	Seeded Native: >10% seeded native grasses, forbs, and shrubs; <5% non-native annual species cover (if ≥ 5 non-native annual species cover, then see U-A:Seeded Native or U-A:Annual Species); <10% shrub cover
U-B:Seeded Native (aka: SD) 10804235	Seeded Native: >10% seeded native grasses, forbs, and shrubs; <5% non-native annual species cover (if ≥ 5 non-native annual species cover, then see U-B:SAP or U-B:SA); $\geq 10\%$ shrub cover
U-A:SI (aka: SDI-A) 10804129	Seeded-Introduced-early: $\geq 10\%$ cover of introduced forage species (e.g., crested wheatgrass, intermediate wheatgrass, or forage kochia); <10% cover of rabbitbrush species; <10% cover of big sagebrush; native grass may be present to common; <5% cover of non-native annual species
U-B:SI (aka: SDI-B) 10804229	Seeded-Introduced-mid-open: $\geq 10\%$ cover of introduced forage species (e.g., crested wheatgrass, intermediate wheatgrass, or forage kochia); 10-19% cover of big sagebrush; native grass may be present to common; <5% cover of non-native annual species
U-C:SI (aka: SDI-C) 10804329	Seeded-Introduced-late1-closed: $\geq 10\%$ cover of introduced forage species (e.g., crested wheatgrass, intermediate wheatgrass, or forage kochia); 20-39% cover of big sagebrush; native grass may be present to common; <5% cover of non-native annual species
U-C:SI-Dense (aka: SDI-D) 10804331	Seeded-Introduced-late1-dense: $\geq 10\%$ cover of introduced forage species (e.g., crested wheatgrass, intermediate wheatgrass, or forage kochia); $\geq 40\%$ cover of big sagebrush; native grass may be present to common; <5% cover of non-native annual species
U-D:SI (aka: SDI-E) 10804429	Seeded-Introduced-late2-open: $\geq 10\%$ cover of introduced forage species (e.g., crested wheatgrass, intermediate wheatgrass, or forage kochia); 5-15% juniper sapling <5m tall; 10-25% cover of big sagebrush; native grass may be present to common; <5% cover of non-native annual species
U-D:SI-Dense 10804431	Seeded-Introduced-late2-open-dense: $\geq 10\%$ cover of introduced forage species (e.g., crested wheatgrass, intermediate wheatgrass, or forage kochia); 5-15% juniper sapling <5m tall; $\geq 25\%$ cover of big sagebrush; native grass may be present to common; <5% cover of non-native annual species
U-A:SI+AS (aka: SI-A+AS) 10804138	Seeded-Introduced +Annual-Species-early: $\geq 10\%$ cover of introduced forage species (e.g., crested wheatgrass, intermediate wheatgrass, or forage kochia); <10% cover of rabbitbrush species; <10% cover of big sagebrush; native grass may be present to common; $\geq 5\%$ cover of non-native annual species
U-B:SI+AS (aka: SI-B+AS) 10804238	Seeded-Introduced +Annual-Species-mid-open: $\geq 10\%$ cover of introduced forage species (e.g., crested wheatgrass, intermediate wheatgrass, or forage kochia); 10-19% cover of big sagebrush; native grass may be present to common; $\geq 5\%$ cover of non-native annual species
U-C:SI+AS (aka: SI-C+AS) 10804338	Seeded-Introduced +Annual-Species-late-closed: $\geq 10\%$ cover of introduced forage species (e.g., crested wheatgrass, intermediate wheatgrass, or forage kochia); 20-39% cover of big sagebrush; native grass may be present to common; $\geq 5\%$ cover of non-native annual species
U-C:SI+AS-Dense (aka: SI-D+AS) 10804339	Seeded-Introduced +Annual-Species-late-dense: $\geq 10\%$ cover of introduced forage species (e.g., crested wheatgrass, intermediate wheatgrass, or forage kochia); $\geq 40\%$ cover of big sagebrush; native grass may be present to common; $\geq 5\%$ cover of non-native annual species
U-D:SI+AS (aka: SI-E+AS) 10804438	Seeded-Introduced-late2-open: $\geq 10\%$ cover of introduced forage species (e.g., crested wheatgrass, intermediate wheatgrass, or forage kochia); 5-15% juniper sapling <5m tall; 10-25% cover of big sagebrush; native grass may be present to common; $\geq 5\%$ cover of non-native annual species
U-D:SI+AS-Dense 10804439	Seeded-Introduced-late2-open-dense: $\geq 10\%$ cover of introduced forage species (e.g., crested wheatgrass, intermediate wheatgrass, or forage kochia); 5-15% juniper sapling

	<5m tall; ≥25% cover of big sagebrush; native grass may be present to common; ≥5% cover of non-native annual species
U-E:TEA 10804544	Tree-Encroached or Tree with Annual Species: >20% mixed conifers cover; if <5% annual grass cover then <5% shrub cover; <5% herbaceous cover; OR if ≥5% cover of annual grass then >0% shrub cover; >5% herbaceous cover
U-A:Unpalat. Forb (aka: UF) 10804146	Unpalatable-Forb-early: >25% Increaser forb cover, such as mules’ears wyethia or narrowleaf balsamroot; <10% big sagebrush cover; native grass may be present
U-B:Unpalat. Forb (aka: UF) 10804246	Unpalatable-Forb-mid: >25% Increaser forb cover, such as mules’ears wyethia or narrowleaf balsamroot; 10-19% big sagebrush cover; native grass may be present
U-C:Unpalat. Forb (aka: UF) 10804346	Unpalatable-Forb-late1: >25% Increaser forb cover, such as mules’ears wyethia or narrowleaf balsamroot; >20% big sagebrush cover; native grass may be present
U-D:Unpalat. Forb (aka: UF) 10804446	Unpalatable-Forb-late2-open: >25% Increaser forb cover, such as mules’ears wyethia or narrowleaf balsamroot; 5-15% small pinyon or juniper <5m tall; >20% big sagebrush cover; native grass may be present
U-E: Unpalat. Forb (aka: UF) 10804546	Unpalatable-Forb-late2-closed: >25% Increaser forb cover, such as mules’ears wyethia or narrowleaf balsamroot; >15% pinyon or juniper <5m tall; >20% big sagebrush cover; native grass may be present
Black Sagebrush (BS)(10791)	1079an or 10791 – GSG habitat
	<p>Overview: The Black Sagebrush BpS is found on shallow calcareous or shallow clay loamy/sandy soils. Soil differences and widely ranging elevations create a variety of communities. Black sagebrush (<i>Artemisia nova</i>) is the dominant shrub species. Black sagebrush tends to grow where there is a calcite-based root-limiting layer in the soil profile; however, a shallow clay-based root-restricting layer also supports black sagebrush sometimes mixed with low sagebrush in northern-central Nevada. Wyoming big sagebrush and basin big sagebrush (<i>A. tridentata</i> spp. <i>wyomingensis</i> and <i>A. tridentata</i> spp. <i>tridentata</i>) generally occur with black sagebrush on moderately deep to deep soils that are well-drained. Older pinyon (<i>Pinus monophylla</i>) and juniper (<i>Juniperus oestosperma</i>) occupy older vegetation classes if tree seed sources are present. Elevations range from 1,524 m to 2,896 m (5,000’ to 9,500’). Average annual precipitation varies between 20 cm to over 41 cm (8” to over 16”). The BpS mostly occurs on alluvial fans, piedmonts, bajadas, rolling hills and moderate to steep mountain slopes, and warmer slopes of basalt slopes. The BpS can also be found on flats and plains. Soils typically contain high volumes of gravel and rock fragments. Black sagebrush generally has relatively low fuel loads with low-growing and cushion forbs and scattered bunchgrasses. The lower elevation black sagebrush community shares many species with mixed salt desert communities, such as Sandberg’s bluegrass (<i>Poa secunda</i>), Indian ricegrass (<i>Achnatherum hymenoides</i>), bottlebrush squireltail (<i>Elymus elymoides</i>), bud sagebrush (<i>Picrothamnus desertorum</i>), winterfat (<i>Krascheninnikovia lanata</i>), spiny hopsage (<i>Grayia spinosa</i>), and shadscale (<i>Atriplex confertifolia</i>). With increasing elevation, Thurber needlegrass (<i>Achnatherum thurberianum</i>), Sandberg’s bluegrass, Indian ricegrass, bluebunch wheatgrass (<i>Pseudoroegneria spicata</i>), and Idaho fescue (<i>Festuca idahoensis</i>) become dominant. Antelope bitterbrush (<i>Purshia tridentata</i>) also increases with elevation. At even higher precipitation (>36 cm (>14”)) on shallow calcareous soils, Utah serviceberry (<i>Amelanchier utahensis</i>), mountain snowberry (<i>Symphoricarpos oreophilus</i>), and antelope bitterbrush become sub-dominant to black sagebrush. Forbs often include buckwheats (<i>Eriogonum</i> spp.),</p>

	fleabanes (<i>Erigeron</i> spp.), phloxes (<i>Phlox</i> spp.), paintbrushes (<i>Castilleja</i> spp.), globemallows (<i>Sphaeralcea</i> spp.), and lupines (<i>Lupinus</i> spp.). Because the mean fire return interval is long and soils harsh, old scattered Utah juniper and single-leaf pinyon can be present to common.
A 10791010	Early-all: <10% cover rabbitbrush; ≥10% cover of native grass; <50% cover mineral soil; 0-25 yrs
B 10791022	Mid-open: 10-19% cover of black sagebrush and rabbitbrush; ≥10% native grass cover; <40% cover of mineral soil; 25-119 yrs
C 10791030	Late-closed: ≥20% cover of black sagebrush and rabbitbrush; 10-30% cover of native grasses; <10% pinyon-juniper sapling cover; 120-194 yrs
D 10791042	Late-open: 10-40% cover of pinyon or juniper 3-8m tall; <10% black sagebrush cover; <10% grass cover; >195 yrs
U-A:Annual Spp (aka: AS) 10791100	Annual-Species: >10% cover of non-native annual species; <10% cover of shrubs
U-A:Bare Ground (aka: BAGR) 10791101	Bare Ground: Disturbed area of mostly exposed mineral soil; crushed vegetation may be present
U-B:Depleted (aka: DP) 10791203	Depleted-mid: 10-19% cover of black sagebrush; <5% native herbaceous cover; 0% pinyon or juniper sapling cover
U-C:Depleted (aka: DP) 10791303	Depleted-late: >20% cover of black sagebrush; <5% native herbaceous cover; <10% pinyon or juniper sapling cover
U-A:Exotic Forb (aka: EF) 10791108	Exotic-Forbs-early: 5-100% exotic forbs (thistles, halogeton, knapweed); <10% cover rabbitbrush; native grasses may be present
U-B: Exotic Forb (aka: EF) 10791208	Exotic-Forbs-mid: 5-100% exotic forbs (thistles, halogeton, knapweed); 10-19% cover of black sagebrush and rabbitbrush; native grasses may be present
U-C: Exotic Forb (aka: EF) 10791308	Exotic-Forbs-late: 5-100% exotic forbs (thistles, halogeton, knapweed); >19% cover of black sagebrush and rabbitbrush; native grasses may be present
U-A:Early Shrub (aka: ES) 10791105	Early-Shrub-early: ≥10% cover rabbitbrush species; <10% cover of black sagebrush; ≤5% non-native annual species cover; native grasses may be present
U-B:Early Shrub (aka: ES) 10791205	Early-Shrub-mid: >10% cover rabbitbrush species; 10-19% cover of black sagebrush and other shrubs; <5% non-native annual species; native grass and forbs may be present
U-C:Early Shrub (aka: ES) 10791305	Early-Shrub-late: >10% cover rabbitbrush species; >19% cover of black sagebrush and other shrubs; <5% non-native annual species; native grass may be present
U-B:SA 10791221	Shrub-Annual-Species-mid: ≥5% non-native annual species cover; 10-19% cover of black sagebrush; <5% cover of native grass
U-C:SA 10791321	Shrub-Annual-Species-late: ≥5% non-native annual species cover; ≥20% cover of black sagebrush; <5% cover of native grass; <10% pinyon or juniper sapling cover
U-A:SAP (aka: ASPG) 10791124	Shrub-Annual-Species-Perennial-Grass-early: ≥5% cover of non-native annual species; ≥5% native grasses; <10% cover of shrubs
U-B:SAP 10791224	Shrub-Annual-Species-Perennial-Grass-mid: ≥5% non-native annual species cover; 10-19% cover of black sagebrush; >5% cover of native grass

U-C:SAP 10791324	Shrub-Annual-Species-Perennial-Grass-late: ≥5% non-native annual species cover; ≥20% cover of black sagebrush; >5% cover of native grass; <10% pinyon or juniper sapling cover
U-A:Seeded Native (aka: SD) 10791135	Seeded-Native-early: >10% seeded native grasses, other shrubs, and forbs, <10% cover of black sagebrush
U-B:Seeded Native (aka: SD) 10791235	Seeded-Native-mid: >10% seeded native grasses, other shrubs, and forbs; ≥10% black sagebrush cover
U-A:SI (aka: SDI-A) 10791129	Seeded-Introduced-Early: >10% seeded introduced species (crested wheatgrass, intermediate wheatgrass, or forage kochia); <10% cover of shrubs; native grasses and forbs may be present to abundant; <5% non-native annual species cover
U-B:SI (aka: SDI-B) 10791229	Seeded-Introduced-Mid: >10% seeded introduced species (crested wheatgrass, intermediate wheatgrass, or forage kochia); 10-19% cover of black sagebrush and rabbitbrush; native grasses and forbs may be present to abundant; <5% non-native annual species cover
U-C:SI (aka: SDI-C) 10791329	Seeded-Introduced-Late: >5% seeded introduced species (crested wheatgrass, intermediate wheatgrass, or forage kochia); >20% cover of black sagebrush; native grasses and forbs may be present to abundant; <5% non-native annual species cover; <10% pinyon-juniper sapling cover
U-D:SI (aka: SDI-D) 10791429	Seeded-Introduced-Late: >5% seeded introduced species (crested wheatgrass, intermediate wheatgrass, or forage kochia); 10-40% cover of pinyon or juniper 3-8m tall; <10% black sagebrush cover; native grasses and forbs may be present to abundant; <5% non-native annual species cover
U-A:SI+AS (aka: SI-A+AS) 10791138	Seeded-Introduced-Early+Annual-Species: >10% seeded introduced species (crested wheatgrass, intermediate wheatgrass, or forage kochia); <10% cover of shrubs; native grasses and forbs may be present to abundant; ≥5% non-native annual species cover
U-B:SI+AS (aka: SI-B+AS) 10791238	Seeded-Introduced-Mid+Annual-Species: >10% seeded introduced species (crested wheatgrass, intermediate wheatgrass, or forage kochia); 10-19% cover of black sagebrush and rabbitbrush; native grasses and forbs may be present to abundant; ≥5% non-native annual species cover
U-C:SI+AS (aka: SI-C+AS) 10791338	Seeded-Introduced-Late+Annual-Species: >5% seeded introduced species (crested wheatgrass, intermediate wheatgrass, or forage kochia); ≥20% cover of black sagebrush; native grasses and forbs may be present to abundant; ≥5% non-native annual species cover; <10% pinyon-juniper sapling cover
U-D:SI+AS (aka: SI-D+AS) 10791438	Seeded-Introduced-Late+Annual-Species: >5% seeded introduced species (crested wheatgrass, intermediate wheatgrass, or forage kochia); 10-40% cover of pinyon or juniper 3-8m tall; <10% black sagebrush cover; native grasses and forbs may be present to abundant; ≥5% non-native annual species cover
U-D:TEA 10791444	Tree-Encroached-Annual-Grass: >10% mature pinyon or juniper cover 3-8m tall; <5% shrub cover; either <5% native herbaceous cover and <5% cheatgrass; OR ≥5% cheatgrass and >0% native herbaceous cover
U-A:Unpalat. Forb (aka: UF) 10791146	Unpalatable-Forb-early: >25% Increaser forb cover, such as mules'ears wyethia or narrowleaf balsamroot; <10% black sagebrush cover; native grass may be present
U-B:Unpalat. Forb (aka: UF) 10791246	Unpalatable-Forb-mid: >25% Increaser forb cover, such as mules'ears wyethia or narrowleaf balsamroot; 10-19% black sagebrush cover; native grass may be present
U-C:Unpalat. Forb (aka: UF) 10791346	Unpalatable-Forb-late-closed: >25% Increaser forb cover, such as mules'ears wyethia or narrowleaf balsamroot; >20% black sagebrush cover; <10% pinyon-juniper sapling cover; native grass may be present

U-D:Unpalat. Forb (aka: UF) 10791446	Unpalatable-For-late-open: >25% Increaser forb cover, such as mules'ears wyethia or narrowleaf balsamroot; 10-40% cover of pinyon or juniper 3-8m tall; <10% black sagebrush cover; native grass may be present
Bluebunch Wheatgrass Grassland (BWG)(11230)	11230 – GSG habitat
	Overview: These grasslands are similar floristically to big sagebrush steppe typically found in large areas of southern Idaho, but central Nevada sites are narrow and located in shallow depressions or drainage ways between ridges of pinyon (<i>Pinus monophylla</i>), juniper (<i>Juniperus</i> spp.), or curl-leaf mountain mahogany (<i>Cercocarpus ledifolius</i>). Bluebunch wheatgrass (<i>Pseudoroegneria spicata</i>) is dominant, grasses dominate the aspect, and shrub cover is absent to low, unless the site is degraded. Depending on geology and soil depth, NRCS ecological sites could be either Calcareous Loam 10-14 P.Z. (precipitation zone; 028BY094NV) or Stony Bottom (025BXY050NV). Soils are variable, non-saline, ranging from deep, fine-textured often with coarse fragments of carbonate rock (limestone or dolomite), and often with a microphytic crust, to stony volcanic-derived clays with shallow rooting depth. Soil moisture is supplemented by snow runoff and subsurface flow originating from higher elevations. This grassland is dominated by perennial bunch grasses and forbs (>25% cover) sometimes with a sparse (<10% cover) shrub layer. Associated bunch grasses include Thurber's needlegrass (<i>Achnatherum thurberianum</i>) (only found on non-calcareous soils), Indian ricegrass (<i>Achnatherum hymenoides</i>) (found mostly on calcareous soils), Great Basin wildrye (<i>Leymus cinereus</i>), Sandberg's bluegrass (<i>Poa secunda</i>), needle-and-thread (<i>Hesperostipa comtata</i>), and bottlebrush squirreltail (<i>Elymus elymoides</i>). Rabbitbrush (<i>Chrysothamnus/Ericameria</i> spp.), snakeweed (<i>Gutierrezia</i>), horsebrush (<i>Tetradymia</i>), or big sagebrush (<i>Artemisia</i> spp.) may be present in disturbed stands. Common forbs are phloxes (<i>Phlox</i> spp.), penstemons (<i>Penstemon</i> spp.), milk-vetches (<i>Astragalus</i> spp.), and arrowleaf balsamroot (<i>Balsamorhiza sagittata</i>). Unlike Idaho grasslands that burn frequently over large areas, these isolated strands of grassland squeezed between wooded areas appear to depend on high variation in soil moisture drowning shrub and trees roots during the spring, but not on fire.
A 11230010	Early-all: <5% shrub cover (rabbitbrush and snakeweed); 10-25% cover of bunch grasses (bluebunch wheatgrass and others); <5% cheatgrass cover; soil cover may be high; 0-4 yrs
B 11230021	Mid-closed: <5% shrub cover (rabbitbrush and snakeweed); >25% cover of bunch grasses (bluebunch wheatgrass and others); <5% cheatgrass cover; 5-20yrs
C 11230032	Late-open: 5-15% cover of big sagebrush, snakeweed, or rabbitbrush; ≥15% cover of bunchgrass; <5% pinyon-juniper sapling cover; >20 yrs
U-A:Annual Spp (aka: AS) 11230100	Annual-Species: ≥10% non-native annual species cover; <5% shrub (mostly rabbitbrush, sagebrush) cover; <10% native grass cover; <1% cover of pinyon or juniper saplings
U-C:Depleted (aka: DP) 11230303	Depleted Early-late: <5% cover of annual grasses; <10% native grass cover; <5% shrub (mostly rabbitbrush, snakeweed, and sagebrush) cover
U-A:Early Shrub (aka: ES) 11230105	Early-Shrub-early: >10% cover of rabbitbrush or snakeweed; 10-30% bare ground cover; <10% native grass cover
U-C:SA 11230321	Shrub-Annual-Grass-late: ≥5% shrub (mostly rabbitbrush, sagebrush) cover; ≥5% cover of annual grasses; <10% native grass cover; <5% cover of pinyon or juniper saplings

U-A SAP (aka: ASPG) 11230124	Shrub-Annual-Species-Perennial-Grass-early: ≥5% cover of annual grasses; ≥10% native grass cover; <5% shrub (mostly rabbitbrush, snakeweed, and sagebrush) cover
U-B:SAP 11230224	Shrub-Annual-Perennial-Grass-mid: <5% shrub (mostly rabbitbrush, sagebrush) cover; ≥5% cover of annual grasses; >25% native grass cover
U-C:SAP 11230324	Shrub-Annual-Perennial-Grass-late: ≥5% shrub (mostly rabbitbrush, sagebrush) cover; ≥5% cover of annual grasses; ≥15% native grass cover;<5% cover of pinyon or juniper saplings
U-C:TEA 11230344	Tree-Encroached-Annual-Grass: >5% mature pinyon-juniper cover; <5% cover of shrubs; either <5% cover native grasses AND <5% cover of cheatgrass OR ≥5% cover of cheatgrass AND native grasses may be present; litter or bare ground may be abundant under the canopy of trees
U-A:Unpalat. Forb (aka: UF) 11230146	Unpalatable-Forb-early: >25% Increaser forb cover, such as mules'ears wyethia or arrowleaf balsamroot; 0% shrub cover (rabbitbrush and snakeweed); <25% cover of bunch grasses (bluebunch wheatgrass and others)
U-B:Unpalat. Forb (aka: UF) 11230246	Unpalatable-Forb-mid: >25% Increaser forb cover, such as mules'ears wyethia or arrowleaf balsamroot; <5% cover of big sagebrush, snakeweed, or rabbitbrush; >25% of bunch grasses (bluebunch wheatgrass and others)
U-C:Unpalat. Forb (aka: UF) 11230346	Unpalatable-Forb-late: >25% Increaser forb cover, such as mules'ears wyethia or arrowleaf balsamroot; >5% cover of big sagebrush, snakeweed, or rabbitbrush; bunch grasses (bluebunch wheatgrass and others) may be present
10620 – not GSG habitat	
Curl-leaf Mountain Mahogany (CMM)(10620)	<p>Overview: The Curl-leaf Mountain Mahogany (<i>Cercocarpus ledifolius</i> var. <i>intermontanus</i>) BpS is usually found on upper slopes and ridges between 2,133 m to 3,200 m (7,000' to 10,500') elevation. Most stands occur on rocky shallow soils and outcrops. Stands are assumed to reach old age without fire, >1,000 years. The BpS is present in two distinct forms due to soil differences: 1) savannas of old and well-dispersed trees form open and often grassy woodlands (with mature stand cover between 10-55%) with a diverse understory on soils with a large proportion of boulders above and below ground; and 2) dense thickets of old shrubs (56% to 100% cover) with thick litter and little understory cover form on soils without bouldering. Curl-leaf mountain mahogany is both a primary early successional colonizer rapidly occupying bare mineral soils after disturbance and the dominant long-lived species. Seedlings require mineral soil without plant competition to reestablish after fire. Reproduction often appears dependent upon geographic variables (slope, aspect, and elevation) more than biotic factors. Where curl-leaf mountain mahogany has reestablished quickly after fire, rabbitbrush (<i>Ericameria nauseosa</i>) may co-dominate. Litter and shading by woody plants inhibits establishment of curl-leaf mountain mahogany. Mountain big sagebrush (<i>Artemisia tridentata</i> spp. <i>vaseyana</i>) and mountain snowberry (<i>Symphoricarpos oreophilus</i>) are the most common shrubs, with Utah serviceberry (<i>Amelanchier utahensis</i>) and creeping barberry (<i>Mahonia repens</i>) also common. Utah juniper (<i>Juniperus osteosperma</i>) and other conifers may be present, with less than 10% total cover. In old, closed canopy stands, understory may consist largely of prickly phlox (<i>Leptodactylon pungens</i>). In savannas, the herbaceous understory can be diverse and abundant.</p>
A 10620010	Early-all: <70% cover of mountain mahogany; other shrubs (snowberry, rabbitbrush) and grasses may be present; 0-20 yrs

B 10620022	Mid-open: 10-30% cover mountain mahogany and other shrubs; 20-60 yrs
C 10620030	Late1-closed: 30-70% cover of mountain mahogany, other shrubs (snowberry, rabbitbrush, big sagebrush, bitterbrush, black sagebrush) abundant; 60-150 yrs
D (aka: savanna) 10620042	Late2-open: 10-30% cover of mountain mahogany; big sagebrush, black sagebrush, bitterbrush; grasses abundant; occasional mixed conifer possible; 150+ yrs
E (aka: thicket) 10620040	Late2-closed: >30% cover of mountain mahogany; 5-10% cover of Utah juniper; snowberry may be common; occasional mixed conifer possible; 150+ yrs
U-A:Annual Spp (aka: AS) 10620100	Annual-Species: ≥10% non-native annual species cover; mountain mahogany largely absent; ≤80% cover of mineral soil, bedrock, and rock
U-C:TEA 10620344	Tree-Encroached or Annual-Species-late1: >5% cheatgrass cover; 30-70% cover of young mountain mahogany; 40% cover of mineral soil, bedrock, and rock
U-D:TEA 10620444	Tree-Encroached or Annual-Species-late2: >5% cheatgrass cover; >10-30% cover of older mountain mahogany; 40% cover of mineral soil, bedrock, and rock
U-D:Unpalat. Forb (aka: UF) 10620446	Unpalatable-Forb: >75% Increaser forb cover, such as mules' ears wyethia or narrowleaf balsamroot
Desert Wash (DW)(11544)	1154dw or 11544 – not GSG habitat
	Overview: The Desert Wash BpS comprises intermittent to dry desert drainages with mostly subsurface flow whose banks are deeply incised. Flash-flooding is the major disturbance in this BpS. Gravels and desert shrub species dominate the system with shrub cover increasing with time since last flood. Common species include burrobrush (<i>Hymenoclea</i> spp.), big sagebrush (<i>Artemisia tridentate</i>), snakeweed (<i>Gutierrezia sarothrae</i>), rabbitbrush (<i>Chrysothamnus</i> spp.), Indian ricegrass (<i>Achnatherum hymenoides</i>), and squirreltail (<i>Elymus</i> spp.).
A 11544010	Early-all: 20-50% cover may be gravel, sands, and/or flood debris; 10-19% cover of burrobrush, rabbitbrush, desert willows present; 5-15% cover of grasses (Indian ricegrass, squirreltail); forbs present to abundant; 0-5 yrs
B 11544021	Mid-closed: <20% of gravel and rocks; >20% cover of burrobrush, big sagebrush, rabbitbrush, desert willows; 5-10% cover of grasses (Indian ricegrass, squirreltail); forbs present to abundant; 5-19 yrs
U-A:Bare Ground (aka: BAGR) 11544101	Bare-Ground: mineral soil exposed by human-caused disturbances
U-A:Early Shrub (aka: ES) 11544105	Early-Shrub-early: 20-50% cover of snakeweed or rabbitbrush species; 10-19% cover of burrobrush, rabbitbrush, desert willows present
U-B:Early Shrub (aka: ES) 11544205	Early-Shrub-late: 20-50% cover of snakeweed or rabbitbrush species; >20% cover of burrobrush, big sagebrush, rabbitbrush, desert willows
U-A:Exotic-Forb-Tree (aka: EFT) 11544106	Exotic-Forb-Tree-early: >5% cover of salt cedar or exotic forbs (knapweed, tall whitetop); 10-19% cover of bursage, burrobrush, big sagebrush, Anderson's wolfberry, rabbitbrush, desert almond.
U-B:Exotic-Forb-Tree (aka: EFT) 11544206	Exotic-Forb-Tree-late: >5% cover of salt cedar or exotic forbs (knapweed, tall whitetop); >20% cover of bursage, burrobrush, big sagebrush, Anderson's wolfberry, rabbitbrush.

U-A:SA 11544121	Shrub-Annual-Grass-early: 5-14% exotic species (<i>Bromus tectorum</i>) cover; 10-19% small trees and shrubs; <5% cover of native grasses; mineral soil may be common
U-B:SA 11544221	Shrub-Annual-Grass-late: 5-14% exotic species (<i>Bromus tectorum</i>) cover; >20% small trees and shrubs; <5% cover of native grasses; mineral soil may be common
U-A:SAP 11544124	Shrub-Annual-Grass-Perennial-Grass-early: 5-14% exotic species (<i>Bromus tectorum</i>) cover; 10-19% small trees and shrubs, ≥5% cover of grasses (Indian ricegrass, squirreltail); mineral soil may be common
U-B:SAP 11544224	Shrub-Annual-Grass-Perennial-Grass-late: 5-14% exotic species (<i>Bromus tectorum</i>) cover; >20% small trees and shrubs, ≥5% cover of grasses (Indian ricegrass, squirreltail); mineral soil may be common
10011 – not GSG habitat	
Developed-Town(10011)	
U-A:Building 10011102	Buildings
10012 – not GSG habitat	
Developed-Power Plant(10012)	
U-A:Building 10012102	Buildings
1081fws or 10811 – not GSG habitat	
Four-Wing Saltbush (FWS)(10811)	
	The Four-Wing Saltbush BpS occurs from 1,524 – 1,585 m (5,000’ – 5,200’). It is part of the Mixed Salt Desert community, but the high stature and high density of four-wing saltbush (<i>Atriplex canescens</i>) makes it stand apart. Soils are alkaline, made of loamy fine sand, highly permeable, and very deep (>152 cm or >60”). Many soils are derived from eolian deposits and often associated with dunes. Average annual precipitation ranges from 0-25.4 cm (0 to 10”). This system generally occurs as small patches and stringers. Summers are hot and dry with many days reaching 30°C (100°F). Spring is the only dependable growing season with moisture both from winter and spring precipitation. Cool springs can delay the onset of plant growth and drought can curtail the length of active spring growth. Four-wing saltbush are tall shrubs found at high density (3-5 plants per sq. m) interspersed with low to mid-height bunch grasses. Other shrubs include basin big sagebrush (<i>Artemisia tridentata</i> ssp. <i>tridentata</i>) and rubber rabbitbrush (<i>Ericameria nauseosa</i>). Common bunch grass species are Indian ricegrass (<i>Achnatherum hymenoides</i>), needle-and-thread (<i>Hesperostipa comata</i>), and, where monsoonal influences are present, rhizomatous/sod forming grasses such as galleta grass (<i>Pleuraphis jamesii</i>) and sand dropseed (<i>Sporobolus cryptandrus</i>). The biophysical setting has not evolved with fire and fire is absent from the reference condition.
A 10811010	Early-all: ≥10% Indian ricegrass, galleta grass, needle-and-thread, or bottlebrush cover; <5% young four-wing saltbush or rubber rabbitbrush cover; mineral soil common to abundant; 0-5 yrs
B 10811022	Mid-open: 5-20% four-wing saltbush, basin big sagebrush, or rabbitbrush cover; >10% Indian ricegrass, galleta grass, needle-and-thread, or bottlebrush cover; mineral soil common to abundant; 6-19 yrs
C 10811030	Late-closed: >20% four-wing saltbush and basin big sagebrush cover >1m tall; >10% Indian ricegrass, needle-and-thread, or bottlebrush cover; ≥20 years

U-A:Annual Spp (aka: AS) 10811100	Annual-Species: ≥10% non-native annual species cover; <5% shrub cover; native grass may be present to common
U-A:Bare Ground (aka: BAGR) 10811101	Bare-ground: Mostly mineral soil due to anthropogenic disturbances
U-A:Depleted (aka: DP) 10811103	Depleted-early: <5% cover of young four-wing saltbush, basin big sagebrush, or rabbitbrush; 5-10% native grass cover; <5% non-native annual species cover
U-B:Depleted (aka: DP) 10811203	Depleted-mid: 5-20% cover of four-wing saltbush, basin big sagebrush, or rabbitbrush; <5% native grass; <5% non-native annual species cover
U-C:Depleted (aka: DP) 10811303	Depleted-late: >20% cover of four-wing saltbush, basin big sagebrush, or rabbitbrush; <5% native grass; <5% non-native annual species cover
U-A:Exotic Forb (aka: EF) 10811108	Exotic-Forbs-early: 5-100% exotic forbs (knapweed, thistles, halogeton); <5% young four-wing saltbush or rubber rabbitbrush cover; native grass may be present to common; non-native annual species may be present
U-B:Exotic Forb (aka: EF) 10811208	Exotic-Forbs-mid: 5-100% exotic forbs (knapweed, thistles, halogeton); 10-20% of four-wing saltbush or rubber rabbitbrush cover; native grass may be present to common; non-native annual species may be present
U-C:Exotic Forb (aka: EF) 10811308	Exotic-Forbs-late: 5-100% exotic forbs (knapweed, thistles, halogeton); >20% of four-wing saltbush or rubber rabbitbrush cover; native grass may be present to common; non-native annual species may be present
U-A:Pasture (aka: PAS) 10811119	Pasture: Irrigated or fallow pasture
U-A:SAP (aka: ASPG) 10811124	Shrub-Annual-Species-Perennial-Grass-early: ≥5% cover of non-native annual species; ≥5% native grasses; <5% shrub cover
U-B:SAP 10811224	Shrub-Annual-Species-Perennial-Grass-mid: ≥5% non-native annual species cover; 5-20% four-wing saltbush, basin big sagebrush, or rabbitbrush cover; >10% Indian ricegrass, galleta grass, needle-and-thread, or bottlebrush cover
U-C:SAP 10811324	Shrub-Annual-Species-Perennial-Grass-late: ≥5% non-native annual species cover; >20% cover of four-wing saltbush, basin big sagebrush, or rabbitbrush; >5% cover of native grass
U-A:Seeded Native (aka: SD) 10811135	Seeded-Native-early: >5% native grass seed mix cover; 1-5% cover of four-wing saltbush; <5% non-native annual species cover
U-B:Seeded Native (aka: SD) 10811235	Seeded-Native-mid: 10-20% cover of four-wing saltbush >5% native grass seed mix cover; <5% non-native annual species cover
Greasewood (GW)(11530)	11530 – not GSG habitat
	Overview: The Greasewood BpS occurs on alluvial flats or lake plains usually adjacent to playas. Sites typically have saline to sodic soils, shallow water table, and flood intermittently, but remain dry for most growing seasons. The water table remains high enough to maintain vegetation, despite salt accumulations. Slope gradients of less than 2 percent are most typical. Elevations range from 1,067 to 1,768 m (3,500' to 5,800'). Average annual precipitation is 13 to 25 cm (5" to 10"); and average growing season is

	100 to 120 days. The surface layer normally crusts over, inhibiting water infiltration and seedling emergence. This BpS sometimes occurs as a mosaic of multiple communities, with open to moderately-dense shrublands dominated or co-dominated by greasewood (<i>Sarcobatus vermiculatus</i>). Basin big sagebrush (<i>Artemesia tridentata</i> spp. <i>tridentata</i>), shadscale (<i>Atriplex confertifolia</i>) may be present or co-dominant. An herbaceous layer, if present, is usually dominated by salt-tolerant graminoids. There may be inclusions of alkali sacaton (<i>Sporobolus airoides</i>), saltgrass (<i>Distichilis spicata</i>), and basin wildrye (<i>Leymus cinereus</i>). Vegetation on this site is normally restricted to coppice mound areas that are surrounded by playa-like depressions or nearly level, usually barren, inner spaces. As ecological condition declines, herbaceous understory is reduced or eliminated and the site becomes a community of halophytic shrubs dominated by greasewood.
A 11530010	Early-all: >5% herbaceous cover of inland salt grass, alkali sacaton, or basin wildrye; ≤5% young or resprouting greasewood; >25% mineral soil; flood debris may be abundant; 0-4 years
B 11530021	Late-closed: >5% cover of mature greasewood with other shrubs possible (basin big sagebrush); >0% herbaceous cover of inland salt grass, alkali sacaton, or basin wildrye; mineral soil may be common; >4 years
U-A:Annual Spp (aka: AS) 11530100	Annual-Species: >10% cover of non-native annual species; <5% cover of mature greasewood and other shrubs
U-A:Exotic Forb (aka: EF) 11530108	Exotic-Forbs-early: 5-100% exotic forbs (knapweed, tall whitetop, thistles, halogeton, purple loosestrife); ≤5% young or resprouting greasewood; native grasses may be absent to common
U-B:Exotic Forb (aka: EF) 11530208	Exotic-Forbs-late: 5-95% exotic forbs (knapweed, tall whitetop, thistles, halogeton, purple loosestrife); >5% mature greasewood; native grasses may be absent to common
U-B:SAP (aka: SA) 11530224	Shrub-Annual-Species-late: ≥5% non-native annual species cover; >5% cover of mature greasewood or basin big sagebrush; native grasses may be absent to common; >4 years
U-A:SI (aka: SDI) 11530129	Seeded-Introduced-early: >10% seeded introduced grasses (usually Russian wheatgrass), forbs, and shrubs; ≤5% young or resprouting greasewood and other shrubs; <5% non-native annual species cover
U-B:SI (aka: SDI) 11530229	Seeded-Introduced-late: >10% seeded introduced grasses (usually Russian wheatgrass), forbs, and shrubs; >5% greasewood and other shrubs; <5% non-native annual species cover
U-A:SI+AS (aka: SDI+AS) 11530138	Seeded-Introduced+Annual-Species-early: ≥5% non-native annual species cover; ≤5% greasewood and other shrubs; >10% seeded introduced grasses (usually Russian wheatgrass), forbs, and shrubs
U-B:SI+AS (aka: SDI+AS) 11530238	Seeded-Introduced+Annual-Species-late: ≥5% non-native annual species cover; >5% greasewood and other shrubs; >10% seeded introduced grasses (usually Russian wheatgrass), forbs, and shrubs
Lek	10020 – GSG habitat
A 10020010	Early-All: lek area assumed semi-barren or low-statured vegetation

Limber Pine Woodland (LB)(10200)	10200 – not GSG habitat
	<p>Overview: The Limber BpS is often the highest subalpine forest type. Elevation ranges from 2,438 m to 3,505 m (8,000' to 11,500') on mid to upper slopes on smooth to concave mountain slopes. The BpS is found on northerly aspects at lower elevations and on all aspects at higher elevations. Slopes ranges from 8% to over 75%. The areas are typically in rain shadows, and are the dry and cold extent of tree cover. Stands occur on thin, stony soils, high windswept ridges and open slopes with minimal ground cover. <i>Pinus flexilis</i> can exist separately or as mixed stands with white fir (<i>Abies concolor</i>).</p>
A 10200010	Early-all: ≤10% limber pine cover 0-5m tall; abundant mineral soil or talus cover; sparse ground cover; 0-99 yrs
B 10200022	Mid1-open: 11-30% limber pine cover 5-10m tall; abundant mineral soil or talus cover; sparse ground cover; 100-249 yrs
C 10200032	Late1-open: very old trees; 11-35% limber pine cover 5-25m tall; abundant mineral soil or talus cover; sparse ground cover; >250 yrs
Low Sagebrush (LS)(10790)	1079aa or 10790 – GSG habitat
	<p>Overview: The Low Sagebrush BpS is found on clay soils. Low sagebrush (<i>Artemisia arbuscula</i>) is the dominant species. Low sagebrush tends to grow where there is a clay-based root-limiting layer in the soil profile that causes a perched spring water table and poor aeration after wetting. Big sagebrush species generally occur on deeper loamy soils. Elevations range from 1,371 m to 2,438 m (5,500' to 8,000') in MLRA 25 and from 1,981 m to 2,591 m (6,500' to 8,500') in MLRA 24. In central Nevada, low sagebrush intermixed with sub-dominant black sagebrush are sometimes found as high as 2,895 m (9,500') on mountain ridges and summits where soils are very shallow and wind swept. Low sagebrush communities found above 36 cm (14") precipitation on mountain valleys and basins are a different BpS: Low Sagebrush Steppe. The Low Sagebrush BpS mostly occurs on alluvial fans, piedmonts, bajadas, rolling hills and mountain slopes. This BpS can also be found on flats, plains, scablands. Low sagebrush generally has relatively low fuel loads with low-growing and cushion forbs and scattered bunchgrasses such as Thurber needlegrass (<i>Achnatherum thurberianum</i>), Sandberg's bluegrass (<i>Poa secunda</i>), Indian ricegrass (<i>Achnatherum hymenoides</i>), and, at higher elevations, Idaho fescue (<i>Festuca idahoensis</i>), and bluebunch wheatgrass (<i>Pseudoroegneria spicata</i>). Forbs often include buckwheats (<i>Eriogonum</i> spp.), fleabanes (<i>Erigeron</i> spp.), phloxes (<i>Phlox</i> spp.), paintbrushes (<i>Castilleja</i> spp.), globemallows (<i>Sphaeralcea</i> spp.), and lupines (<i>Lupinus</i> spp.).</p>
A 10790010	Early-all: <10% cover rabbitbrush and other shrubs; >10% cover of native grass; <50% cover mineral soil; 0-24 yrs
B 10790022	Mid-open: 10-19% cover of low sagebrush and rabbitbrush; >10% native grass cover; <40% cover of mineral soil; 25-119 yrs
C 10790030	Late-closed: ≥20% cover of low sagebrush; >5% cover of native grasses; ≤5% juniper (maybe pinyon) sapling cover; 120-194 yrs
D 10790042	Late-open: >5% cover of pinyon or juniper 3-8m tall; <10% low sagebrush cover; <10% grass cover; ≥195 yrs
U-A:Annual Spp (aka: AS) 10790100	Annual-Species: >10% cover of non-native annual species; <10% cover of shrubs (primarily rabbitbrush and snakeweed)

U-A:Exotic Forb (aka: EF) 10790108	Exotic-Forbs-early: 5-100% exotic forbs (knapweed, thistles, halogeton); <10% cover of shrubs; native grasses may be present to common
U-B:Exotic Forb (aka: EF) 10790208	Exotic-Forbs-mid: 5-100% exotic forbs (knapweed, thistles, halogeton); 10-19% cover of low sagebrush; native grasses may be present to common; <5% cover of non-native annual species
U-C:Exotic Forb (aka: EF) 10790308	Exotic-Forbs-late: 5-100% exotic forbs (knapweed, thistles, halogeton); ≥20% cover of low sagebrush; native grasses may be present to common; <5% cover of non-native annual species; ≤5% juniper (maybe pinyon) sapling cover
U-A:Early Shrub (aka: ES) 10790105	Early-Shrub-early: >10% cover rabbitbrush species; <10% cover of low sagebrush or other shrubs; <5% cover of non-native annual species; native grasses may be present
U-B:Early Shrub (aka: ES) 10790205	Early-Shrub-mid: >10% cover rabbitbrush species; 10-19% cover of low sagebrush; <5% cover of non-native annual species; native grasses may be present
U-C:Early Shrub (aka: ES) 10790305	Early-Shrub-late: >10% cover rabbitbrush species; ≥20% cover of low sagebrush; <5% cover of non-native annual species; native grasses may be present
U-B:Depleted (aka: DP) 10790203	Depleted-mid: 10-19% cover of low sagebrush; <5% native herbaceous cover; <5% cover of non-native annual species; ≤5% juniper (maybe pinyon) sapling cover
U-C:Depleted (aka: DP) 10790303	Depleted-late: ≥20% cover of low sagebrush; <5% native herbaceous cover; <5% cover of non-native annual species; ≤5% juniper (maybe pinyon) sapling cover
U-B:SA 10790221	Shrub-Annual-Species-mid: ≥5% non-native annual species cover; 10-19% cover of low sagebrush; <5% cover of native grass; ≤5% juniper (maybe pinyon) sapling cover
U-C:SA 10790321	Shrub-Annual-Species-late: ≥5% non-native annual species cover; ≥20% cover of low sagebrush; <5% cover of native grass; ≤5% juniper (maybe pinyon) sapling cover
U-A:SAP (aka: ASPG) 10790124	Shrub-Annual-Species-Perennial-Grass-early: ≥5% cover of non-native annual species; ≥5% native grasses; <10% cover of shrubs
U-B:SAP 10790224	Shrub-Annual-Species-Perennial-Grass-mid: ≥5% non-native annual species cover; 10-19% cover of low sagebrush; >5% cover of native grass
U-C:SAP 10790324	Shrub-Annual-Species-Perennial-Grass-late: ≥5% non-native annual species cover; >20% cover of low sagebrush; >5% cover of native grass; ≤5% juniper (maybe pinyon) sapling cover
U-A:Seeded Native (aka: SD) 10790135	Seeded-Native-early: >5% seeded native grass and forb species; <10% cover of shrubs; <5% non-native annual species cover (if ≥5 non-native annual species cover, then see U-A:Annual Spp)
U-B:Seeded Native (aka: SD) 10790235	Seeded-Native-mid: >5% seeded native grass and forb species; 10-19% cover of shrubs; <5% non-native annual species cover (if ≥5 non-native annual species cover, then see U-B:SAP)
U-A:SI (aka: SDI-A) 10790129	Seeded-Introduced-Early: >10% seeded introduced species (crested wheatgrass, intermediate wheatgrass, or forage kochia); <10% cover of shrubs; native grasses and forbs may be present to abundant; <5% non-native annual species cover
U-B:SI (aka: SDI-B) 10790229	Seeded-Introduced-Mid: >10% seeded introduced species (crested wheatgrass, intermediate wheatgrass, or forage kochia); 10-19% cover of low sagebrush and rabbitbrush; native grasses and forbs may be present to abundant; <5% non-native annual species cover
U-C:SI (aka: SDI-C) 10790329	Seeded-Introduced-Late: >5% seeded introduced species (crested wheatgrass, intermediate wheatgrass, or forage kochia); >20% cover of low sagebrush; native

	grasses and forbs may be present to abundant; <5% non-native annual species cover; ≤5% juniper (maybe pinyon) sapling cover
U-D:SI (aka: SDI-D) 10790429	Seeded-Introduced-Late: >5% seeded introduced species (crested wheatgrass, intermediate wheatgrass, or forage kochia); >5% cover of pinyon or juniper 3-8m tall; <10% cover of low sagebrush; native grasses and forbs may be present to abundant; <5% non-native annual species cover
U-A:SI+AS (aka: SI-A+AS) 10790138	Seeded-Introduced+Annual-Species-Early: >10% seeded introduced species (crested wheatgrass, intermediate wheatgrass, or forage kochia); <10% cover of shrubs; native grasses and forbs may be present to abundant; ≥5% non-native annual species cover
U-B:SI-AS (aka: SI-B+AS) 10790238	Seeded-Introduced+Annual-Species-mid: >10% seeded introduced species (crested wheatgrass, intermediate wheatgrass, or forage kochia); 10-19% cover of low sagebrush and rabbitbrush; native grasses and forbs may be present to abundant; ≥5% non-native annual species cover
U-C:SI-AS (aka: SI-C+AS) 10790338	Seeded-Introduced +Annual-Species-Late: >5% seeded introduced species (crested wheatgrass, intermediate wheatgrass, or forage kochia); >20% cover of low sagebrush; native grasses and forbs may be present to abundant; ≥5% non-native annual species cover; ≤5% juniper (maybe pinyon) sapling cover
U-D:SI+AS (aka: SI-D+AS) 10790438	Seeded-Introduced+Annual-Species-Late: >5% seeded introduced species (crested wheatgrass, intermediate wheatgrass, or forage kochia); >5% cover of pinyon or juniper 3-8m tall; <10% cover of low sagebrush; native grasses and forbs may be present to abundant; <5% non-native annual species cover
U-D:TEA (aka: TA, TE) 10790444	Tree-Encroached-or-Annual-Grass: ≥3% mature pinyon or juniper cover; <10% low sagebrush and other shrub cover; <5% native herbaceous cover; <5% cheatgrass; OR ≥5% native herbaceous cover; ≥5% cheatgrass}
U-A:Unpalat. Forb (aka: UF) 10790146	Unpalatable-Forb-early: >25% Increaser forb cover, such as mules’ears wyethia or narrowleaf balsamroot; <10% cover of low sagebrush or other shrubs; <5% cover of non-native annual species; native grasses may be present
U-B:Unpalat. Forb (aka: UF) 10790246	Unpalatable-Forb-mid: >25% Increaser forb cover, such as mules’ears wyethia or narrowleaf balsamroot; 10-19% cover of low sagebrush or other shrubs; <5% cover of non-native annual species; native grasses may be present
U-C:Unpalat. Forb (aka: UF) 10790346	Unpalatable-Forb-late-closed: >25% Increaser forb cover, such as mules’ears wyethia or narrowleaf balsamroot; ≥20% cover of low sagebrush or other shrubs; <5% cover of non-native annual species; <5% cover of pinyon-juniper sapling cover; native grasses may be present
U-D:Unpalat. Forb (aka: UF) 10790446	Unpalatable-Forb-late-open: >25% Increaser forb cover, such as mules’ears wyethia or narrowleaf balsamroot; >5% cover of pinyon or juniper 3-8m tall; <10% low sagebrush cover; <10% grass cover

11240 – GSG habitat
Low Sagebrush Steppe (LSS)(11240)
<p>Overview: The Low Sagebrush Steppe BpS is found on upper-montane to subalpine clay soils. Low sagebrush (<i>Artemisia arbuscula</i>) and Idaho fescue (<i>Festuca idahoensis</i>) are the dominant species. Low sagebrush tends to grow where there is a clay-based root-limiting layer in the soil profile that causes a perched spring water table and poor aeration after wetting. Big sagebrush species generally occur on deeper loamy soils. The BpS occurs on mountain slopes and basins. Elevation is above 2,438 m (8,000’), although the BpS is sometimes higher, where precipitation is greater than 41 cm (16”). Low Sagebrush Steppe has higher fuel loads than the Low Sagebrush BpS and, therefore, the steppe’s mean fire return interval will be shorter. The dominant grass species is Idaho fescue with Cusick’s bluegrass (<i>Poa cussikii</i>) subdominant. Forbs often include balsamroots (<i>Balsamorhiza sagittata</i>), buckwheats (<i>Eriogonum</i> spp.), fleabanes</p>

	(<i>Erigeron</i> spp.), phloxes (<i>Phlox</i> spp.), paintbrushes (<i>Castilleja</i> spp.), globemallows (<i>Sphaeralcea</i> spp.), and lupines (<i>Lupinus</i> spp.). Utah serviceberry (<i>Amelanchier utahensis</i>) and antelope bitterbrush (<i>Purshia tridentata</i>) may be subdominant shrubs. Subalpine conifers may occasionally establish in low sagebrush steppe's harsh soils; however, low sagebrush does not generally support trees.
A 11240010	Early-all: >15% cover of grass; <10% cover rabbitbrush and other shrubs; <50% cover mineral soil; 0-24 yrs
B 11240022	Mid-open: 10-19% cover of low sagebrush, Utah serviceberry, snowberry, and rabbitbrush; >15% grass cover; <40% cover of mineral soil; 25-119 yrs
C 11240030	Late-closed: >20% cover of low sagebrush low sagebrush, Utah serviceberry, and snowberry; <3% mature conifer cover; ≤5% conifer sapling cover; 10-15% cover of grasses; >120 yrs
U-B:Depleted (aka: DP) 11240203	Depleted-mid: 10-19% cover of low sagebrush, Utah serviceberry, and snowberry; <5% herbaceous cover
U-C:Depleted (aka: DP) 11240303	Depleted-late: >20% cover of low sagebrush, Utah serviceberry, and snowberry; <5% herbaceous cover; <3% mature conifer cover; ≤5% conifer sapling cover
U-A:Early Shrub (aka: ES) 11240105	Early-Shrub-early: >10% cover rabbitbrush species; <10% cover of low sagebrushh and other shrubs
U-B:Early Shrub (aka: ES) 11240205	Early-Shrub-mid: >10% cover rabbitbrush species; 10-19% cover of low sagebrushh and other shrubs
U-C:Early Shrub (aka: ES) 11240305	Early-Shrub-late: >10% cover rabbitbrush species; >20% cover of low sagebrush and other shrubs
U-D:TEA (aka: TE) 11240444	Tree-Encroached-or-Annual-Grass: ≥3% mature conifer cover; <10% low sagebrush and other shrub cover; <5% native herbaceous cover; <5% cheatgrass; OR ≥5% native herbaceous cover; ≥5% cheatgrass
U-A:Unpalat. Forb (aka: UF) 11240146	Unpalatable-Forb-early: >25% Increaser forb cover, such as mules'ears wyethia or narrowleaf balsamroot; <10% cover rabbitbrush and other shrubs
U-B:Unpalat. Forb (aka: UF) 11240246	Unpalatable-Forb-mid: >25% Increaser forb cover, such as mules'ears wyethia or narrowleaf balsamroot; 10-19% cover low sagebrush and other shrubs
U-C:Unpalat. Forb (aka: UF) 11240346	Unpalatable-Forb-late: >25% Increaser forb cover, such as mules'ears wyethia or narrowleaf balsamroot; 10-19% cover low sagebrush and other shrubs; <3% mature conifer cover
	10060 – not GSG habitat
Mine-Active(10060)	
U-A:Bare Ground 10060101	Exposed rock and soil caused by mining activity
U-A:Buildings 10060102	Buildings associated with active mine
	10061 – not GSG habitat
Mine-Inactive(10061)	
U-A:Bare Ground 10061101	Exposed rock and soil caused by former mining activity

U-A:Buildings 10061102	Buildings associated with inactive mine
Mixed Salt Desert (MSD)(10810)	10810 – not GSG habitat
	<p>Overview: The Mixed Salt Desert occurs from lower slopes to valley bottoms ranging in elevation from 1,067 – 1981 m (3,500' - 6,500'). Soils are often alkaline or calcareous. Soil permeability ranges from high to low, with more impermeable soils occurring in valley bottoms. Water ponds on alkaline bottoms. Texture is variable becoming finer toward valley bottoms. Many soils are derived from alluvium. Average annual precipitation ranges from 7.5-25.4 cm (3" to 10"); however, this system is in 12.7 - 30.3 cm (5"-12") of effective moisture within this broader range. Thus, other site characteristics (e.g. aspect, drainage, soil type) should be considered in identifying this biophysical setting. At the precipitation extremes, this system generally occurs as small patches and stringers. Summers are hot and dry with many days reaching 30° C (100° F). Spring is the only dependable growing season with moisture both from winter and spring precipitation. Cool springs can delay the onset of plant growth and drought can curtail the length of active spring growth. Freezing temperatures are common from November through April. Mixed Salt Desert generally lies above playas, lakes, and greasewood communities. Upslope the BpS is bordered by low elevation big sagebrush groups, commonly Wyoming big sagebrush, low sagebrush, and black sagebrush communities. Mixed Salt Desert includes low (<0.91 m [3']) and medium-sized shrubs found widely scattered (often 6.1 - 9.1 m [20'-30'] apart) to high density (3-5 plants per sq. m) shrubs interspersed with low to mid-height bunch grasses. Common shrubs are shadscale (<i>Atriplex confertifolia</i>), greasewood (<i>Sarcobatus vermiculatus</i>), winterfat (<i>Krascheninnikovia lanata</i>), budsage (<i>Picrothamnus desertorum</i>), Nevada ephedra (<i>Ephedra nevadensis</i>), horsebrush (<i>Tetradymia</i> spp.), low rabbitbrush (<i>Artemisa arbuscular</i>), broom snakeweed (<i>Gutierrezia sarothrae</i>), and spiny hopsage (<i>Grayia spinosa</i>). Shrub dominance is highly dependent on the site. Some of these shrubs will be present. Common bunch grass species are Indian ricegrass, needle-and-thread, purple three-awn, and bottlebrush squirreltail. Globemallows are the most common and widespread forbs. The understory grasses and forbs are salt-tolerant, not particularly drought tolerant, and are variably abundant. The relative abundance of species may vary in a patchwork pattern across the landscape in relation to subtle differences in soils (e.g., sand sheets or other surface textural differences) and reflect variation in disturbance history. Total cover rarely exceeds 25% and annual precipitation is closely linked to precipitation 12 months prior. Stand-replacing disturbances (insects, extended wet periods and drought) shift dominance between shrub and grass species. Following drought coupled with insect infestations, the system will tend more toward bud sagebrush dominance. The biophysical setting has not evolved with fire and fire is absent from the reference condition.</p>
A 10810010	Early-all: 0-5% cover of young <i>Atriplex</i> spp. or other shrubs; Indian ricegrass and squirreltail common; 0-5 yrs
B 10810022	Late1-open: >5% cover <i>Atriplex</i> spp. or other shrubs; Indian ricegrass and squirreltail present to common; ≥6 yrs
C 10810032	Late2-open: >5% cover budsage <0.25m; Indian ricegrass and squirreltail present to common; ≥6 years
U-A:Annual Spp (aka: AS) 10810100	Annual-Species: ≥10% non-native annual species cover; <5% shrub cover

U-A:Bare Ground (aka: BAGR) 10810101	Bare-ground: Mostly mineral soil due to anthropogenic disturbances
U-A:Exotic Forb (aka: EF) 10810108	Exotic-Forbs-early: 5-100% exotic forbs (knapweed, thistles, halogeton); <5% shrub cover
U-B:Exotic Forb (aka: EF) 10810208	Exotic-Forbs-late: 5-100% exotic forbs (knapweed, thistles, halogeton); ≥5% shrub cover
U-B:SA 10810221	Shrub-Annual-Species-late: ≥5% non-native annual species cover; ≥5% cover of <i>Atriplex</i> spp. or other shrubs; native grasses may be present
U-A:SAP (aka: ASPG) 10810124	Shrub-Annual-Species-Perennial-Grass-early: ≥5% non-native annual species cover; ≥5% native grass species cover; ≤5% shrub cover
U-B:SAP 10810224	Shrub-Annual-Species-Perennial-Grass-late: ≥5% non-native annual species cover; >5% shrub cover; ≥5% native grass species cover
U-A:Seeded Native (aka: SD) 10810135	Seeded-Native-early: ≤5% salt desert shrub cover; >5% native seed mix cover; <5% non-native annual species cover (if ≥5% non-native annual species cover, then see U-A:SAP or Annual Spp)
U-B:Seeded Native (aka: SD) 10810235	Seeded-Native-late: >5% salt desert shrub cover; >5% native herbaceous seed mix cover; <5% non-native annual species cover (if ≥5% non-native annual species cover, then see U-B:SAP or U-B:SA)
U-A:SI (aka: SDI) 10810129	Seeded-Introduced-early: >5% seeded introduced grasses, forbs; ≤5% seeded salt desert shrub cover; <5% non-native annual species cover;
U-B:SI (aka: SDI) 10810229	Seeded-Introduced-late: >5% seeded introduced grasses, forbs; >5% seeded salt desert shrub cover; <5% non-native annual species cover
U-A:SI+AS (aka: SDI+AS) 10810138	Seeded-Introduced+Annual-Species-early: >5% seeded introduced grasses and shrubs; ≤5% seeded salt desert shrub cover; ≥5% non-native annual species cover
U-B:SI+AS (aka: SDI+AS) 10810238	Seeded-Introduced+Annual-Species-late: >5% seeded introduced grasses and shrubs; >5% seeded salt desert shrub cover; ≥5% non-native annual species cover
1154mf or 11541 – GSG habitat	
Moist Floodplain (MF)(11541)	
	<p>Overview: The Moist Floodplain BpS is found in lower gradient valleys often as axial valley waterways or rivers in broad valleys sometimes cutting through mountains ranges. The Humboldt River and some of its low gradient tributaries fall into this group. The BpS is the primary riparian community adjacent to larger rivers. Species require flooding and silt and gravel for growth and reestablishment. Sites are subject to temporary flooding during spring runoff, although summer flash floods can have dramatic effects on succession. Severe flood events can alter the potential of the local floodplain to support the Moist Floodplain BpS, thus causing a shift in BpS. Underlying gravels may keep the water table just below the ground surface, and are favored substrates for willow (<i>Salix</i> spp.), and if applicable, cottonwood (<i>Populus fremontii</i>) germination. Surface water is generally high for variable periods. Soils are typically alluvial deposits of sand, clays, silts and cobbles that are highly stratified with depth due to flood scour and deposition. Vegetation is predominantly herbaceous with species composition varying with salt tolerance and alluvial deposits. Riparian shrubs</p>

	are found at the river's edge as willows or distributed in clumps farther away from the channel in wetter areas. Co-dominant and diagnostic species include creeping wildrye (<i>Leymus triticoides</i>) and basin wildrye (<i>Leymus cinereus</i>). Other common species are tufted hairgrass (<i>Deschampsia cespitosa</i>), Nevada bluegrass (<i>Poa nevadensis</i>), sedges (<i>Carex</i> spp.), alkali sacaton (<i>Sporobolus airoides</i>), inland saltgrass (<i>Distichlis spicata</i>), willow (<i>Salix</i> spp.), black greasewood (<i>Sarcobatus vermiculatus</i>), basin big sagebrush (<i>Atrémisia tridentata</i> spp. <i>tridentata</i>), and silver buffaloberry (<i>Shepherdia argentea</i>). Cottonwood (<i>Populus</i> spp.) is occasional.
Point Bar (aka: PTB) 11541004	Point-Bar: >80% cover of silt, gravel, rock, and boulders as a part of the waterway's meanders; <20% very recently germinated seedlings; 0-5 yrs
Aw 11541014	Early-Willow: 30%-50% cover of creeping wildrye and basin wildrye codominant with other graminoids subdominant (Nevada bluegrass, and/or sedges); <5% cover of willow seedlings and sapling in clumps or at the river's edge <1.5m high; <1% cottonwood cover; 50-70% cover of gravel, rock, and boulders, although this may be highly variable by reach; 0-5 yrs
Bw 11541024	Mid-Willow: 50-90% cover of creeping wildrye and basin wildrye codominant with other graminoids subdominant (Nevada bluegrass, and/or sedges); 5-10% cover of large but not arborescent willow ($\leq 6''$ diameter and <3m high) and other shrubs in clumps or at the river's edge; <1% cottonwood cover; <50% gravel, rock, and boulders; 5-74 yrs
Cw 11541034	Late-Willow: 10-15% cover of large diameter (>6'' and ≥ 3 m high) arborescent willow and other tall shrubs in clumps or at the river's edge; 50-80% cover of creeping wildrye and basin wildrye codominant with other graminoids subdominant (Nevada bluegrass, and/or sedges); <1% cottonwood cover; <10% gravel, rock, and boulders; >75 yrs
Ac 11541012	Early-Cottonwood: 0-40% cover of cottonwood seedlings and saplings <1.5m height; creeping wildrye and/or basin wildrye may co-dominate; <50% cover gravel, rock, and boulders, although this may be highly variable by reach; 0-5 yrs
Bc 11541023	Mid-Cottonwood: 31-100% cover of small pole-sized cottonwood trees (≥ 1.5 m and <10m height) and other tall shrubs (willows, buffaloberry); creeping wildrye and basin wildrye dominate the understory <20% gravel, rock, and boulders; 5-19yrs
Cc 11541033	Late-Cottonwood: 31-100% cover of cottonwood trees 10-24m high; creeping wildrye and basin wildrye dominate herbaceous layer; willow and other shrubs in mid-story; <20% gravel, rock, and boulders; >20 yrs
U-A:Annual Spp (aka: AS) 11541100	Annual-Species: dry incised banks with >10% cover of non-native annual species; <10% shrub cover
U-A:Desertified (aka: DE) 11541104	Desertified-early: Incised river/creek with 5-20% native grass cover, especially basin wildrye; 0% cover of upland shrubs (e.g., big sagebrush, snakeweed, rabbitbrush, Wood's Rose, silver buffaloberry)
U-B:Desertified (aka: DE) 11541204	Desertified-mid: Incised river/creek with $\leq 10\%$ cover of upland shrubs (e.g., big sagebrush, snakeweed, rabbitbrush, Wood's Rose, silver buffaloberry); 21-80% native grass cover, especially basin wildrye
U-C:Desertified (aka: DE) 11541304	Desertified-late: Incised river/creek with >10% cover of upland shrubs (e.g., big sagebrush, snakeweed, rabbitbrush, Wood's Rose, silver buffaloberry); <75% native grass cover, especially basin wildrye
U-A:Early Shrub (aka: ES) 11541105	Early-Shrub-early: >20% cover of rabbitbrush or snakeweed species; big sagebrush uncommon; native grasses present; <5% cover of non-native annual species
U-B:Early Shrub (aka: ES) 11541205	Early-Shrub-mid: >20% cover of rabbitbrush or snakeweed species; 1-11% cover of big sagebrush; native grasses present; <5% cover of non-native annual species

U-C:Early Shrub (aka: ES) 11541305	Early-Shrub-late: >20% cover of rabbitbrush or snakeweed species; ≥11% cover of big sagebrush; native grasses may be present; <5% cover of non-native annual species
U-A:Exotic-Forb-Tree (aka: EFT) 11541106	Exotic-Forb-Tree-early: >5% cover of exotic forb species or tree species on un-incised waterways (knapweed, tall whitetop, thistles, purple loosestrife, saltcedar, Russian olive); <5% cover of willow seedlings and sapling in clumps or at the river's edge <1.5m high; <50% cover of creeping wildrye and basin wildrye co-dominant with other graminoids subdominant (Nevada bluegrass, and/or sedges)
U-B:Exotic-Forb-Tree (aka: EFT) 11541206	Exotic-Forb-Tree-mid: >5% cover of exotic forb species or tree species on un-incised waterways (knapweed, tall whitetop, thistles, purple loosestrife, saltcedar, Russian olive); 5-10% cover of large (≤6" diameter and <3m high) or arborescent willow and other shrubs in clumps or at the river's edge; <80% cover of creeping wildrye and basin wildrye codominant with other graminoids subdominant (Nevada bluegrass, and/or sedges)
U-C:Exotic-Forb-Tree (aka: EFT) 11541306	Exotic-Forb-Tree-late: >5% cover of exotic forb species or tree species on un-incised waterways (knapweed, tall whitetop, thistles, purple loosestrife, saltcedar, Russian olive); 31-100% cover of cottonwood trees 10-24m high; creeping wildrye and basin wildrye dominate herbaceous layer; willow and other shrubs in mid-story; <20% gravel, rock, and boulders
U-A:FoxtailBarley (aka: NGPG) 10803107	Foxtail-Barley-early: >10% foxtail barley (<i>Hordeum jubatum</i>); <5% cover of willow seedlings and sapling in clumps or at the river's edge <1.5m high; <50% cover of creeping wildrye and basin wildrye codominant with other graminoids subdominant (Nevada bluegrass, and/or sedges)
U-B:FoxtailBarley (aka: NGPG) 10803207	Foxtail-Barley-mid: >10% foxtail barley (<i>Hordeum jubatum</i>); 5-10% cover of large (≤6" diameter and <3m high) or arborescent willow and other shrubs in clumps or at the river's edge; <80% cover of creeping wildrye and basin wildrye codominant with other graminoids subdominant (Nevada bluegrass, and/or sedges)
U-C:FoxtailBarley (aka: NGPG) 10803307	Foxtail-Barley-late: >10% foxtail barley (<i>Hordeum jubatum</i>); 31-100% cover of cottonwood trees 10-24m high; creeping wildrye and basin wildrye dominate herbaceous layer; willow and other shrubs in mid-story
U-A:Incised-EFT 11541111	Incised-Exotic-Forb-Tree-early: >5% cover of exotic forb species or tree species on <u>incised</u> banks (knapweed, tall whitetop, thistles, purple loosestrife, saltcedar, Russian olive); 5-20% native grass cover, especially basin wildrye; 0% cover of upland shrubs (e.g., big sagebrush, snakeweed, rabbitbrush, Wood's Rose, silver buffaloberry)
U-B: Incised-EFT 11541211	Incised-Exotic-Forb-Tree-mid: >5% cover of exotic forb species or tree species on <u>incised</u> banks (knapweed, tall whitetop, thistles, purple loosestrife, saltcedar, Russian olive); ≤10% cover of upland shrubs (e.g., big sagebrush, snakeweed, rabbitbrush, Wood's Rose, silver buffaloberry); non-native annual species cover may be present; 21-80% native grass cover, especially basin wildrye
U-C: Incised-EFT 11541311	Incised-Exotic-Forb-Tree-late: >5% cover of exotic forb species or tree species on <u>incised</u> banks (knapweed, tall whitetop, thistles, purple loosestrife, saltcedar, Russian olive); >10% cover of upland shrubs (e.g., big sagebrush, snakeweed, rabbitbrush, Wood's Rose, silver buffaloberry); non-native annual species cover may be present; <75% native grass cover, especially basin wildrye; large cottonwood might be present
U-B:SAP 11541224	Shrub-Annual-Species-Perennial-Grass-mid: Incised river/creek with ≤10% cover of upland shrubs (e.g., big sagebrush, snakeweed, rabbitbrush, Wood's Rose, silver buffaloberry); >5% non-native annual species cover; <80% native grass cover, especially basin wildrye, although native grass might be absent
U-C:SAP 11541324	Shrub-Annual-Species-Perennial-Grass-late: Incised river/creek with >10% cover of upland shrubs (e.g., big sagebrush, snakeweed, rabbitbrush, Wood's Rose, silver buffaloberry); >5% non-native annual species cover; <75% native grass cover, especially

	basin wildrye, although native grass might be absent; large cottonwood might be present
U-A:Shrb-Frb Encr (aka: SFE) 11541137	Shrub-Forb-Encroached-early: 10-50% cover of irises, Wood's rose, rabbitbrush, or other unpalatable forbs or shrubs in open areas or under tree canopy; <5% cover of willow seedlings and sapling in clumps or at the river's edge <1.5m high; <50% cover of creeping wildrye and basin wildrye codominant with other graminoids subdominant (Nevada bluegrass, and/or sedges)
U-B:Shrb-Frb Encr (aka: SFE) 11541237	Shrub-Forb-Encroached-mid: 10-50% cover of irises, Wood's rose, rabbitbrush, or other unpalatable forbs or shrubs in open areas or under tree canopy; 5-10% cover of large ($\leq 6''$ diameter and <3m high) or arborescent willow and other shrubs in clumps or at the river's edge; <80% cover of creeping wildrye and basin wildrye codominant with other graminoids subdominant (Nevada bluegrass, and/or sedges)
U-C:Shrb-Frb Encr (aka: SFE) 11541337	Shrub-Forb-Encroached-late: 10-50% cover of irises, Wood's rose, rabbitbrush, or other unpalatable forbs or shrubs in open areas or under tree canopy; 31-100% cover of cottonwood trees 10-24m high; creeping wildrye and basin wildrye dominate herbaceous layer; willow and other shrubs in mid-story; <20% gravel, rock, and boulders
U-A:Pasture (aka: PAS) 11541119	Pasture: Irrigated, sub-irrigated, or fallow pasture or alfalfa field
Montane Riparian (MR)(11540)	11540 – GSG habitat
	Overview: The Montane Riparian BpS is found within a broad elevation range above 1,220 m (4,000'). Riparian communities require flooding and gravel for reestablishment. The BpS is found in low- to mid-elevation canyons and draws, on montane floodplains, in steep-sided canyons, or narrow V-shaped valleys with rocky substrates. Sites are subject to temporary flooding during spring runoff, although summer flash floods can have dramatic effects on succession. Underlying gravels may keep the water table just below ground surface, and are favored substrates for cottonwood and willow. In steep-sided canyons, streams typically have perennial flow on mid to high gradients. Surface water is generally high for variable periods. Soils are typically alluvial deposits of sand, clays, silts and cobbles that are highly stratified with depth due to flood scour and deposition. Codominant and diagnostic species include willow (<i>Salix</i> spp.), cottonwood (<i>Populus</i> spp.), chokecherry (<i>Prunus virginiana</i>), sumac (<i>Rhus</i> spp.), Wood's rose (<i>Rosa woodsia</i>), currant (<i>Ribes</i> spp.), occasional aspen (<i>Populus tremuloides</i>), and conifers. Vegetation is very heterogeneous and diverse along river reaches. Some reaches will be dominated by cottonwood, whereas others are completely occupied by willow, and even cinquefoil and sagebrush on natural stream terraces (not due to incision). Lower slopes <6% favor cottonwood, whereas willow is more typically found on steeper slopes.
Point Bar (aka: PTB) 11540004	Point-Bar: >80% cover of silt, gravel, rock, and boulders as a part of the waterway's meanders; <20% very recently germinated seedlings; 0-5 yrs
Aw 11540014	Early-Willow: 1-40% cover of willow, but cottonwood absent; grass may co-dominate; <50% cover gravel, rock, and boulders, although this may be highly variable by reach; 0-5 yrs
Bw 11540024	Mid-Willow: 41-100% cover of willow and other small shrubs and cottonwood absent; <20% gravel, rock, and boulders; 5-19yrs
Cw 11540034	Late-Willow: 41-100% cover of large willow, other tall shrubs (chokecherry), deciduous trees, conifers, and cottonwood absent; <20% gravel, rock, and boulders ≥ 20 yrs

Ac 11540012	Early-Cottonwood: 1-40% cover of cottonwood seedlings and saplings; grass may co-dominate; <50% cover gravel, rock, and boulders, although this may be highly variable by reach; 0-5 yrs
Bc 11540023	Mid-Cottonwood: 31-100% cover of small cottonwood trees and other tall shrubs (willows, chokecherry) and; <20% gravel, rock, and boulders; 5-19 yrs
Cc 11540033	Late-Cottonwood: 31-100% cover of cottonwood, willow, conifers and other trees 10-24m; <20% gravel, rock, and boulders; >20 yrs
U-A:Annual Spp (aka: AS) 11540100	Annual-Species: Dry incised banks with >10% cover of non-native annual species; <10% shrub (generally rabbitbrush or snakeweed) cover
U-A:Desertified (aka: DE) 11540104	Desertified-early: Incised river/creek with 5-20% native grass cover, especially basin wildrye; 0% cover of upland shrubs (e.g., big sagebrush, snakeweed, rabbitbrush, Wood's Rose, silver buffaloberry); <5% of non-native annual species
U-B:Desertified (aka: DE) 11540204	Desertified-mid: Incised river/creek with ≤10% cover of upland shrubs (e.g., big sagebrush, snakeweed, rabbitbrush, Wood's Rose, silver buffaloberry); 21-80% native grass cover, especially basin wildrye; <5% of non-native annual species
U-C:Desertified (aka: DE) 11540304	Desertified-late: Incised river/creek with >10% cover of upland shrubs (e.g., big sagebrush, snakeweed, rabbitbrush, Wood's Rose, silver buffaloberry); <75% native grass cover, especially basin wildrye; <5% of non-native annual species
U-A:Early Shrub (aka: ES) 11540105	Early-Shrub-early: >20% cover of rabbitbrush or snakeweed species; big sagebrush uncommon; native grasses may be present; <5% cover of non-native annual species
U-B:Early Shrub (aka: ES) 11540205	Early-Shrub-mid: >20% cover of rabbitbrush or snakeweed species; 1-11% cover of big sagebrush; native grasses present; <5% cover of non-native annual species
U-C:Early Shrub (aka: ES) 11540305	Early-Shrub-late: >20% cover of rabbitbrush or snakeweed species; ≥11% cover of big sagebrush; native grasses may be present; <5% cover of non-native annual species
U-A:Exotic-Forb-Tree (aka: EFT) 11540106	Exotic-Forb-Tree-early: >5% cover of exotic forb species or tree species on un-incised waterways (knapweed, tall whitetop, thistles, purple loosestrife, saltcedar, Russian olive); 1-40% cover of willow or of cottonwood seedlings and saplings; grass may co-dominate; <50% cover gravel, rock, and boulders, although this may be highly variable by reach
U-B:Exotic-Forb-Tree (aka: EFT) 11540206	Exotic-Forb-Tree-mid: >5% cover of exotic forb species or tree species on un-incised waterways (knapweed, tall whitetop, thistles, purple loosestrife, saltcedar, Russian olive); 41-100% cover of willow and other small shrubs or 31-100% cover of small cottonwood trees and other tall shrubs (willows, chokecherry); <20% gravel, rock, and boulders
U-C:Exotic-Forb-Tree (aka: EFT) 11540306	Exotic-Forb-Tree-late: >5% cover of exotic forb species or tree species on un-incised waterways (knapweed, tall whitetop, thistles, purple loosestrife, saltcedar, Russian olive); 41-100% cover of large willow <u>or</u> 31-100% cover of cottonwood other tall shrubs (chokecherry), deciduous trees, conifers and other trees 10-24m; <20% gravel, rock, and boulders
U-A:Hummocked (aka: HU) 11540110	Hummocked: Trampled by ungulates; graminoids present to common in and out of holes created by ungulate hoofs
U-A:Incised-EFT 11540111	Incised-Exotic-Forb-Tree-early: >5% cover of exotic forb species or tree species on <u>incised</u> banks (knapweed, tall whitetop, thistles, purple loosestrife, saltcedar, Russian olive); 5-20% native grass cover, especially basin wildrye; 0% cover of upland shrubs (e.g., big sagebrush, snakeweed, rabbitbrush, Wood's Rose, silver buffaloberry)
U-B:Incised-EFT 11540211	Incised-Exotic-Forb-Tree-mid: >5% cover of exotic forb species or tree species on <u>incised</u> banks (knapweed, tall whitetop, thistles, purple loosestrife, saltcedar, Russian

	olive); ≤10% cover of upland shrubs (e.g., big sagebrush snakeweed, rabbitbrush, Wood's Rose, silver buffaloberry); non-native annual species cover may be present; <80% native grass cover, especially basin wildrye
U-C:Incised-EFT 11540311	Incised-Exotic-Forb-Tree-late: >5% cover of exotic forb species or tree species on <u>incised</u> banks (knapweed, tall whitetop, thistles, purple loosestrife, saltcedar, Russian olive); >10% cover of upland shrubs (e.g., big sagebrush snakeweed, rabbitbrush, Wood's Rose, silver buffaloberry); non-native annual species cover may be present; <75% native grass cover, especially basin wildrye; large cottonwood might be present
U-A:Inset 11540113	Inset-Floodplain-early: Reformed riparian floodplain at bottom of incised creeks; 1-40% cover of willow, young cottonwood may be present; grass may co-dominate or dominate; although this may be highly variable by reach; 0-5 yrs
U-B:Inset 11540213	Inset-Floodplain-late: Reformed riparian floodplain at bottom of incised creeks; 31-100% cover of willow and other tall shrubs (chokecherry), pole-sized cottonwood might be present; >5 yrs
U-A:Inset-HU 11540117	Inset-Floodplain-Hummocked: Reformed riparian floodplain at bottom of incised creeks; Trampled by ungulates; graminoids present to common in and out of holes created by ungulate hoofs
U-A:Inset-EFT 11540116	Inset-Floodplain-Exotic-Forb-Tree-early: Reformed riparian floodplain at bottom of incised creeks; >1% cover of exotic forb or tree species (knapweed, tall whitetop, thistles, purple loosestrife, salt cedar, or Russian olive); 1-40% cover of willow, young cottonwood may be present; grass may co-dominate or dominate; although this may be highly variable by reach
U-B:Inset-EFT 11540216	Inset-Floodplain-Exotic-Forb-Tree-late: Reformed riparian floodplain at bottom of incised creeks; >1% cover of exotic forb or tree species (knapweed, tall whitetop, thistles, purple loosestrife, salt cedar, or Russian olive); 31-100% cover of willow and other tall shrubs (chokecherry), pole-sized cottonwood might be present
U-A:Inset-SFE 11540118	Inset-Floodplain-Shrub-Forb-Encroached-early: Reformed riparian floodplain at bottom of incised creeks; 10-50% cover of Wood's rose, and other unpalatable forbs and shrubs in open areas or under tree canopy; 1-40% cover of willow, young cottonwood may be present
U-B:Inset-SFE 11540218	Inset-Floodplain-Shrub-Forb-Encroached-late: Reformed riparian floodplain at bottom of incised creeks; 10-50% cover of Wood's rose, and other unpalatable forbs and shrubs in open areas or under tree canopy; 31-100% cover of willow and other tall shrubs (chokecherry), pole-sized cottonwood might be present
U-A:Pasture (aka: PAS) 11540119	Pasture: Irrigated, sub-irrigated, or fallow pasture or alfalfa field
U-B:SAP 11540224	Shrub-Annual-Species-Perennial-Grass-mid: Incised river/creek with ≤10% cover of upland shrubs (e.g., big sagebrush snakeweed, rabbitbrush, Wood's Rose, silver buffaloberry); >5% non-native annual species cover; <80% native grass cover, especially basin wildrye, although native grass might be absent
U-C:SAP 11540324	Shrub-Annual-Species-Perennial-Grass-late: Incised river/creek with >10% cover of upland shrubs (e.g., big sagebrush snakeweed, rabbitbrush, Wood's Rose, silver buffaloberry); >5% non-native annual species cover; <75% native grass cover, especially basin wildrye, although native grass might be absent; large cottonwood might be present
U-A:Shrb-Frb Encr (aka: SFE) 11540137	Shrub-Forb-Encroached-early: 10-50% cover of irises, Wood's rose, rabbitbrush, or other unpalatable forbs or shrubs in open areas or under tree canopy; <5% cover of willow seedlings and sapling in clumps or at the river's edge <1.5m high; <50% cover of creeping wildrye and basin wildrye codominant with other graminoids subdominant (Nevada bluegrass, and/or sedges)

U-B:Shrb-Frb Encr (aka: SFE) 11540237	Shrub-Forb-Encroached-mid: 10-50% cover of irises, Wood’s rose, rabbitbrush, or other unpalatable forbs or shrubs in open areas or under tree canopy; 5-10% cover of large (≤6” diameter and <3m high) or arborescent willow and other shrubs in clumps or at the river’s edge; <80% cover of creeping wildrye and basin wildrye codominant with other graminoids subdominant (Nevada bluegrass, and/or sedges)
U-C:Shrb-Frb Encr (aka: SFE) 11540337	Shrub-Forb-Encroached-late: 10-50% cover of irises, Wood’s rose, rabbitbrush, or other unpalatable forbs or shrubs in open areas or under tree canopy; 31-100% cover of cottonwood trees 10-24m high; creeping wildrye and basin wildrye dominate herbaceous layer; willow and other shrubs in mid-story; <20% gravel, rock, and boulders
U-A:SI (aka: SDI-A) 10803129	Seeded-Introduced-early: >10% seeded introduced grasses, with native grasses and forbs possible; <5% of non-native annual species
U-B:SI (aka: SDI-B) 10803229	Seeded-Introduced-mid: >10% seeded introduced grasses, with native grasses and forbs possible; 1-10% cover of big sagebrush and/or greasewood; <5% of non-native annual species
U-C:SI (aka: SDI-C) 10803329	Seeded-Introduced-late: >10% seeded introduced grasses, with native grasses and forbs possible; >10% cover of basin big sagebrush and/or greasewood; <5% of non-native annual species
U-A:SI+AS (aka: SI-A+AS) 10803128	Seeded-Introduced+Annual-Species-early: >10% seeded introduced grasses, with native grasses and forbs possible; shrubs generally absent; ≥5% cover of non-native annual species
U-B:SI+AS (aka: SI-B+AS) 10803228	Seeded-Introduced+Annual-Species-mid: >10% seeded introduced grasses, with native grasses and forbs possible; 1-10% cover of basin big sagebrush and/or greasewood; ≥5% cover of non-native annual species
U-C:SI+AS (aka: SI-C+AS) 10803328	Seeded-Introduced+Annual-Species-late: >10% seeded introduced grasses, with native grasses and forbs possible; >10% cover of basin big sagebrush and/or greasewood; ≥5% cover of non-native annual species
U-C:TEA 11540344	Tree-Encroached or Tree-Annual-Species: >20% conifer cover; if <5% annual grass cover then <5% shrub cover; <5% herbaceous cover; OR if ≥5% cover of annual grass then >0% shrub cover; >5% herbaceous cover
1126s or 11261 – GSG habitat	
Montane Sagebrush Steppe-subalpine (MSSs)(11261)	Overview: The Montane Sagebrush Steppe Subalpine BpS (a.k.a., mountain big sagebrush (<i>Artemisia tridentata</i> spp. <i>vaseyana</i>)) is found above and inter-grades with the upland soils of montane sagebrush steppe. Precipitation is above 41 cm (16”). Elevation varies with soil depth and aspect ranging above 1981 m (6,500’) on deeper and colder aspects and generally above 2,591 m (8,500’) on other shallower soils or warmer aspects. In general, this system shows an affinity for mild to very steep topography, fine soils, and some source of subsurface moisture. Soils generally are moderately deep to deep, well-drained, and made of loam, sandy loam, clay loam, or gravelly loam textural classes; soils often have a substantial volume of coarse fragments, and are derived from a variety of parent materials. This system primarily occurs on deep soiled to stony flats, ridges, nearly flat ridge tops, and mountain slopes. Vegetation types are usually dominated by mountain big sagebrush. A variety of other shrubs can be found in some occurrences such as mountain snowberry, Utah serviceberry, antelope bitterbrush, but these are seldom dominant (if dominant, see Mountain Shrub BpS). Abundant forbs are an indicator of good range condition. Grasses are abundant, sometimes very abundant, and often diverse. As elevation or

	precipitation increase, spike-fescue (<i>Leucopoa kingii</i>), mountain brome (<i>Bromus marginatus</i>), and Idaho fescue (<i>Festuca idahoensis</i>) increase while bluebunch wheatgrass (<i>Pseudoroegneria spicata</i>) and Thurber's needlegrass (<i>Achnatherum thurberianum</i>) decrease. Cheatgrass (<i>Bromus tectorum</i>) is nearly always absent from this BpS. White fir (<i>Abies concolor</i>) and limber pine (<i>Pinus flexilis</i>) may occupy this site in late-succession.
A 11261010	Early-all: ≥10% grass and forb cover; 0-10% cover of mountain sage, mountain brush; 0-12 yrs
B 11261022	Mid-open: 11-19% cover of mountain sage, mountain shrub; >50% herbaceous cover; 13-29 yrs
C 11261030	Late1-closed: 20%-49% cover of mountain sagebrush (dominant) and mountain brush; ≥25% herbaceous cover; <10% young conifer cover; >30 yrs
C-Dense (aka: D) 11261031	Late1-dense: ≥50% cover of mountain sagebrush (dominant) and mountain brush; 25-50% herbaceous cover; <10% young conifer cover; >30 yrs
D (aka: E) 11261042	Late2-open: 10-30% cover of young mixed conifers <3m; 25-40% cover of mountain sagebrush (dominant) and mountain brush; >10% herbaceous cover; 75-149 yrs
D-Dense 11261041	Late2-dense: 10-30% cover of young mixed conifers <3m; >40% cover of mountain sagebrush (dominant) and mountain brush; >10% herbaceous cover; 75-149 yrs
E (aka: F) 11261050	Late2-closed: >30% mixed conifers cover ≥3m; 6-20% shrub cover; >10% herbaceous cover; ≥150 yrs
U-A:Annual Spp (aka: AS) 11261100	Annual-Species: >10% cover of non-native annual species; <10% native grasses; snakeweed or rabbitbrush may be present
U-A:Bare Ground (aka: BAGR) 11260101	Bare-ground: Mostly mineral soil due to anthropogenic disturbances
U-B:Depleted (aka: DP) 11261203	Depleted-mid: 11-19% cover of mountain sagebrush (dominant) and mountain brush; <10% herbaceous cover; <5% cover of non-native annual species; young conifer absent; litter and mineral soil common
U-C:Depleted (aka: DP) 11261303	Depleted-late1: 20-49% cover of mountain sagebrush (dominant) and mountain brush; <10% herbaceous cover; <5% cover of non-native annual species; <10% young conifer cover; litter and mineral soil common
U-C:DP-Dense (aka: DP-Dense) 11261302	Depleted-late1-dense: ≥50% cover of mountain sagebrush (dominant) and mountain brush; <10% herbaceous cover; <5% cover of non-native annual species; <10% young conifer cover; litter and mineral soil common
U-D:Depleted (aka: DP) 11261403	Depleted-Late2-open: 10-30% cover of young mixed conifers <3m; 25-40% cover of mountain sagebrush (dominant) and mountain brush; ≤10% herbaceous cover
U-D:DP-Dense (aka: DP-Dense) 11261402	Depleted-Late2-dense: 10-30% cover of young mixed conifers <3m; >40% cover of mountain sagebrush (dominant) and mountain brush; ≤10% herbaceous cover
U-A:Early-Shrub (aka: ES) 11261105	Early-Shrub-early: >20% cover of snakeweed or rabbitbrush species; <10% cover of mountain sage, mountain brush; <5% cover of non-native annual species; native grass and forb may be present
U-B:Early-Shrub (aka: ES) 11261205	Early-Shrub-mid: >20% cover of snakeweed or rabbitbrush species; 11-19% cover of mountain sage, mountain shrub; <5% cover of non-native annual species; native grass and forb may be present

U-C:Early-Shrub (aka: ES) 11261305	Early-Shrub-late: >20% cover of snakeweed or rabbitbrush species; ≥20% cover of mountain sage, mountain shrub; <5% cover of non-native annual species; native grass and forb may be present
U-A:SAP (aka: ASPG) 11261124	Shrub-Annual-Species-Perennial-Grass-early: ≥5% cover of non-native annual species; ≥10% native grasses; <10% shrub cover
U-B:SAP (aka: SAP-1) 11261224	Shrub-Annual-Species-Perennial-Grass-mid-open: >5% non-native annual species cover; 10-19% cover of mountain sagebrush (dominant) and mountain brush; >5% cover of native grass; <10% young conifer cover
U-C:SAP (aka: SAP-1) 11261324	Shrub-Annual-Species-Perennial-Grass-late1-closed: >5% non-native annual species cover; 20-49% cover of mountain sagebrush (dominant) and mountain brush; >5% cover of native grass; <10% young conifer cover
U-C:SAP-Dense (aka: SAP-2) 11261326	Shrub-Annual-Species-Perennial-Grass-late1-dense: >5% non-native annual species cover; ≥50% cover of mountain sagebrush (dominant) and mountain brush; >5% cover of native grass; <10% young conifer cover
U-D:SAP (aka: SAP-1) 11261424	Shrub-Annual-Species-Perennial-Grass-late2-open: 10-30% cover of young mixed conifers <3m; >5% non-native annual species cover; 20-49% cover of mountain sagebrush (dominant) and mountain brush; >5% cover of native grass
U-D:SAP-Dense (aka: SAP-2) 11261426	Shrub-Annual-Species-Perennial-Grass-late2-dense: 10-30% cover of young mixed conifers <3m; >5% non-native annual species cover; ≥50% cover of mountain sagebrush (dominant) and mountain brush; >5% cover of native grass
U-E:TEA 12611544	Tree-Encroached or Tree-Annual-Grass: >20% mixed conifers cover; if <5% annual grass cover then <5% shrub cover; <5% herbaceous cover; OR if ≥5% cover of annual grass then >0% shrub cover; >5% herbaceous cover
U-A:Unpalat. Forb (aka: UF) 11261146	Unpalatable-Forb-early: >75% Increaser forb cover, such as mules'ears wyethia or narrowleaf balsamroot; 0-10% cover of mountain sage, mountain brush; <10% herbaceous cover; <5% cover of non-native annual species; young conifer absent
U-B:Unpalat. Forb (aka: UF) 11261246	Unpalatable-Forb-mid: >65% Increaser forb cover, such as mules'ears wyethia or narrowleaf balsamroot; 11-19% cover of mountain sagebrush (dominant) and mountain brush; <10% herbaceous cover; <5% cover of non-native annual species; young conifer absent
U-C:Unpalat. Forb (aka: UF) 11261346	Unpalatable-Forb-late1: >25% Increaser forb cover, such as mules'ears wyethia or narrowleaf balsamroot; 20-49% cover of mountain sagebrush (dominant) and mountain brush; <10% herbaceous cover; <5% cover of non-native annual species; <10% young conifer cover
U-D:Unpalat. Forb (aka: UF) 11261446	Unpalatable-Forb-late2-open: >25% Increaser forb cover, such as mules'ears wyethia or narrowleaf balsamroot; 10-30% cover of young mixed conifers <3m; ≥20% cover of mountain sagebrush (dominant) and mountain brush; <10% herbaceous cover; <5% cover of non-native annual species
U-E:Unpalat. Forb (aka: UF) 11261546	Unpalatable-Forb-late2-closed: >25% Increaser forb cover, such as mules'ears wyethia or narrowleaf balsamroot; >30% mixed conifers cover ≥3m; 6-20% shrub cover; <10% herbaceous cover; <5% cover of non-native annual species
Montane Sagebrush Steppe-upland (MSSu)(11260)	1126up or 11260 – GSG habitat
	Overview: The Montane Sagebrush Steppe BpS (a.k.a., mountain big sagebrush) is found on deep soil to stony flats, ridges, nearly flat ridge tops, and mountain slopes. Annual precipitation ranges from 30 cm to 41 cm (12" to 16"). Elevation is from 1,768 m (5,800') on cooler and more productive soils to 2,743 m (9,000') on steep southern slopes. In general this system shows an affinity for fine soils and some source of

	subsurface moisture. Soils generally are moderately deep to deep, well-drained, and made of loam, sandy loam, clay loam, or gravelly loam textural classes; soils often have a substantial volume of coarse fragments, and are derived from a variety of parent materials. Vegetation types are usually dominated by <i>Artemisia tridentata</i> ssp. <i>vaseyana</i> . A variety of other shrubs can be found in some occurrences, such as antelope bitterbrush (<i>Purshia tridentata</i>), Utah serviceberry (<i>Amerlanichier utahensis</i>), and black chokecherry (<i>Prunus virginiana</i>), but these are seldom dominant (if dominant, see Mountain Shrub BpS). Abundant forbs are an indicator of good range condition. Grasses are abundant, sometimes very abundant, and often diverse. Common grass species are Thurber's needlegrass (<i>Achnatherum thurberianum</i>), bluebunch wheatgrass (<i>Pseudoroegneria spicata</i>), and, at higher elevations, Idaho fescue (<i>Festuca idahoensis</i>), Cusick's bluegrass (<i>Poa cusickii</i>), and basin wildrye (<i>Leymus cinereus</i>).
A 11260010	Early-all: ≥10% grass and forb cover; 0-10% cover of mountain sage, mountain brush; 0-12 yrs
B 11260022	Mid-open: 11-19% cover of mountain sage, mountain shrub; >50% herbaceous cover; 13-29 yrs
C 11260030	Late1-closed: 20%-49% cover of mountain sagebrush (dominant) and mountain brush; ≥25% herbaceous cover; <10% young conifer cover; ≥30 yrs
C-Dense (aka: D) 11260031	Late1-dense: ≥50% cover of mountain sagebrush (dominant) and mountain brush; 25-50% herbaceous cover; <10% young conifer cover; ≥30 yrs
D (aka: E) 11260042	Late2-open: 10-30% cover of young mixed conifers <3m; 25-40% cover of mountain sagebrush (dominant) and mountain brush; >10% herbaceous cover; 75-149 yrs
D-Dense 11260041	Late2-dense: 10-30% cover of young mixed conifers <3m; >40% cover of mountain sagebrush (dominant) and mountain brush; >10% herbaceous cover; 75-149 yrs
E (aka: F) 11260050	Late2-closed: >30% mixed conifers cover ≥3m; 6-20% shrub cover; >10% herbaceous cover; ≥150 yrs
U-A:Annual Spp (aka: AS) 11260100	Annual-Species: >10% cover of non-native annual species; <10% native grasses; snakeweed or rabbitbrush may be present
U-A:Bare Ground (aka: BAGR) 11260101	Bare-ground: Mostly mineral soil due to anthropogenic disturbances
U-B:Depleted (aka: DP) 11260203	Depleted-mid: 11-19% cover of mountain sagebrush (dominant) and mountain brush; <10% herbaceous cover; <5% cover of non-native annual species; young conifer absent; litter and mineral soil common
U-C:Depleted (aka: DP) 11260303	Depleted-late1: 20-49% cover of mountain sagebrush (dominant) and mountain brush; <10% herbaceous cover; <5% cover of non-native annual species; <10% young conifer cover; litter and mineral soil common
U-C:DP-Dense (aka: DP-Dense) 11260302	Depleted-late1-dense: ≥50% cover of mountain sagebrush (dominant) and mountain brush; <10% herbaceous cover; <5% cover of non-native annual species; <10% young conifer cover; litter and mineral soil common
U-D:Depleted (aka: DP) 11260403	Depeletd-Late2-open: 10-30% cover of young mixed conifers <3m; 25-40% cover of mountain sagebrush (dominant) and mountain brush; ≤10% herbaceous cover
U-D:DP-Dense (aka: DP-Dense) 11260402	Depleted-Late2-dense: 10-30% cover of young mixed conifers <3m; >40% cover of mountain sagebrush (dominant) and mountain brush; ≤10% herbaceous cover

U-A:Early-Shrub (aka: ES) 11260105	Early-Shrub-early: >20% cover of snakeweed or rabbitbrush species; <10% cover of mountain sage, mountain brush; <5% cover of non-native annual species; native grass and forb may be present
U-B:Early-Shrub (aka: ES) 11260205	Early-Shrub-mid: >20% cover of snakeweed or rabbitbrush species; 11-19% cover of mountain sage, mountain shrub; <5% cover of non-native annual species; native grass and forb may be present
U-C:Early-Shrub (aka: ES) 11260305	Early-Shrub-late: >20% cover of snakeweed or rabbitbrush species; ≥20% cover of mountain sage, mountain shrub; <5% cover of non-native annual species; native grass and forb may be present
U-A:Exotic Forb (aka: EF) 11260108	Exotic-Forb-early: 5-100% exotic forbs (thistles, halogeton, knapweed); <10% cover of rabbitbrush species; <10% cover of big sagebrush; native grass and forbs may be present
U-B:Exotic Forb (aka: EF) 11260208	Exotic-Forb-mid: 5-100% exotic forbs (thistles, halogeton, knapweed); 10-19% cover of big sagebrush and other shrubs; native grass and forbs may be present
U-C:Exotic Forb (aka: EF) 11260308	Exotic-Forb-late: 5-100% exotic forbs (thistles, halogeton, knapweed); >19% cover of big sagebrush and other shrubs; native grass and forbs may be present
U-B:SA 11260221	Shrub-Annual-Species-open: ≥5% cover non-native annual species; 10%-19% cover of big sagebrush and other shrubs; native grasses rare
U-C:SA (aka: SA-1) 11260321	Shrub-Annual-Species-late1-closed: ≥5% cover non-native annual species; 20%-49% cover of big sagebrush and other shrubs; native grasses rare; <10% young conifer cover
U-C:SA-Dense (aka: SA-2) 11260323	Shrub-Annual-Species-late1-dense: ≥5% cover non-native annual species; ≥50% cover of big sagebrush and other shrubs; native grasses rare; <10% young conifer cover
U-D:SA (aka: SA-1) 11260421	Shrub-Annual-Species-late1-closed: 10-30% cover of young mixed conifers <3m; ≥5% cover non-native annual species; 20%-39% cover of big sagebrush and other shrubs; native grasses rare
U-D:SA-Dense (aka: SA-2) 11260423	Shrub-Annual-Species-late1-dense: 10-30% cover of young mixed conifers <3m; ≥5% cover non-native annual species; ≥40% cover of big sagebrush and other shrubs; native grasses rare
U-A:SAP (aka: ASPG) 11260124	Shrub-Annual-Species-Perennial-Grass-early: ≥5% cover of non-native annual species; ≥10% native grasses; <10% shrub cover
U-B:SAP (aka: SAP-1) 11260224	Shrub-Annual-Species-Perennial-Grass-mid-open: >5% non-native annual species cover; 10-19% cover of mountain sagebrush (dominant) and mountain brush; >5% cover of native grass; <10% young conifer cover
U-C:SAP (aka: SAP-1) 11260324	Shrub-Annual-Species-Perennial-Grass-late1-closed: >5% non-native annual species cover; 20-49% cover of mountain sagebrush (dominant) and mountain brush; >5% cover of native grass; <10% young conifer cover
U-C:SAP-Dense (aka: SAP-2) 11260326	Shrub-Annual-Species-Perennial-Grass-late1-dense: >5% non-native annual species cover; ≥50% cover of mountain sagebrush (dominant) and mountain brush; >5% cover of native grass; <10% young conifer cover
U-D:SAP (aka: SAP-1) 11260424	Shrub-Annual-Species-Perennial-Grass-late2-open: 10-30% cover of young mixed conifers <3m; >5% non-native annual species cover; 20-49% cover of mountain sagebrush (dominant) and mountain brush; >5% cover of native grass
U-D:SAP-Dense (aka: SAP-2) 11260426	Shrub-Annual-Species-Perennial-Grass-late2-dense: 10-30% cover of young mixed conifers <3m; >5% non-native annual species cover; ≥50% cover of mountain sagebrush (dominant) and mountain brush; >5% cover of native grass

U-A:Seeded Native (aka: SD) 11260135	Seeded-Native-early: >10% seeded native grasses, forbs, and shrubs; <10% big sagebrush cover; <5% non-native annual species cover (if ≥5% non-native annual species cover, then see U-A:SAP or Annual Spp)
U-B:Seeded Native (aka: SD) 11260235	Seeded-Native-mid: >10% seeded native grasses, forbs, and shrubs; ≥10% big sagebrush cover; <5% non-native annual species cover (if ≥5% non-native annual species cover, then see U-B:SAP)
U-A:SI (aka: SDI-A) 11260129	Seeded-Introduced-Early: >10% seeded introduced grasses and shrubs; <10% canopy of mountain sage, mountain brush; native grasses present to common; <5% cover of non-native annual species
U-B:SI (aka: SDI-B) 11260229	Seeded-Introduced-Mid-open: >10% seeded introduced grasses and shrubs; 10-19% cover of mountain sagebrush and mountain shrub; native grasses present to common; <5% cover of non-native annual species
U-C:SI (aka: SDI-C) 11260329	Seeded-Introduced-Late-closed: >5% seeded introduced grasses and shrubs; 20-49% cover of mountain sagebrush and mountain shrub; native grasses present to common; <5% cover of non-native annual species; <10% young conifer cover
U-C:SI-Dense (aka: SDI-D) 11260331	Seeded-Introduced-Late-dense: >5% seeded introduced grasses and shrubs; ≥50% cover of mountain sagebrush and mountain shrub; native grasses present to common; <5% cover of non-native annual species; <10% young conifer cover
U-A:SI+AS (aka: SI-A+AS) 11260138	Seeded-Introduce +Annual-Species-Early: >10% seeded introduced grasses and shrubs; <10% canopy of mountain sage, mountain brush; native grasses present to common; ≥5% cover of non-native annual species
U-B:SI+AS (aka: SI-B+AS) 11260238	Seeded-Introduced+Annual-Species-Mid-Open : >10% seeded introduced grasses and shrubs; 10-19% cover of mountain sage and mountain shrub; native grasses present to common; ≥5% cover of non-native annual species
U-C:SI+AS (aka: SI-C+AS) 11260338	Seeded-Introduced+Annual-Species-Late-Closed: >5% seeded introduced grasses and shrubs; 20-49% cover of mountain sage and mountain shrub; native grasses present to common; ≥5% cover of non-native annual species; <10% young conifer cover
U-C:SI+AS-Dense (aka: SI-D+AS) 11260339	Seeded-Introduced+Annual-Species-Late-Dense: >5% seeded introduced grasses and shrubs; ≥50% cover of mountain sage and mountain shrub; native grasses present to common; ≥5% cover of non-native annual species; <10% young conifer cover
U-E:TEA 12611544	Tree-Encroached or Tree–Annual-Grass: >20% mixed conifers cover; if <5% annual grass cover then <5% shrub cover; <5% herbaceous cover; OR if ≥5% cover of annual grass then >0% shrub cover; >5% herbaceous cover
U-A:Unpalat. Forb (aka: UF) 11260146	Unpalatable-Forb-early: >25% Increaser forb cover, such as mules'ears wyethia or narrowleaf balsamroot; 0-10% cover of mountain sage, mountain brush; <10% herbaceous cover; <5% cover of non-native annual species; young conifer absent
U-B:Unpalat. Forb (aka: UF) 11260246	Unpalatable-Forb-mid: >25% Increaser forb cover, such as mules'ears wyethia or narrowleaf balsamroot; 11-19% cover of mountain sagebrush (dominant) and mountain brush; <10% herbaceous cover; <5% cover of non-native annual species; young conifer absent
U-C:Unpalat. Forb (aka: UF) 11260346	Unpalatable-Forb-late1: >25% Increaser forb cover, such as mules'ears wyethia or narrowleaf balsamroot; 20-49% cover of mountain sagebrush (dominant) and mountain brush; <10% herbaceous cover; <5% cover of non-native annual species; <10% young conifer cover
U-D:Unpalat. Forb (aka: UF) 11260446	Unpalatable-Forb-late2-open: >25% Increaser forb cover, such as mules'ears wyethia or narrowleaf balsamroot; 10-30% cover of young mixed conifers <3m; ≥20% cover of mountain sagebrush (dominant) and mountain brush; <10% herbaceous cover; <5% cover of non-native annual species
U-E:Unpalat. Forb (aka: UF) 11260546	Unpalatable-Forb-late2-closed: >25% Increaser forb cover, such as mules'ears wyethia or narrowleaf balsamroot; >30% mixed conifers cover ≥3m; 6-20% shrub cover; <10% herbaceous cover; <5% cover of non-native annual species

Mountain Shrub (MSh)(11060)	11060 – GSG habitat
	<p>Overview: The Mountain Shrub BpS includes several mountain shrub species that can each dominate: Utah serviceberry (<i>Amelanchier utahensis</i>), mountain snowberry (<i>Symphoricarpos oreophilus</i>), common chokecherry (<i>Prunus virginiana</i>), mountain oceanspray (<i>Holodiscus dumosa</i>) antelope bitterbrush (<i>Purshia tridentata</i>), and occasionally desert almond (<i>Prunus fasciculata</i>) at middle elevations at the mouth of mountain canyons. Mountain big sagebrush (<i>Artemesia tridentata</i> spp. <i>vaseyana</i>) is never more than 10% cover. These shrublands occur between 1,981 m and 2,581 m (6,500' and 8,500') of elevation and are usually associated on smooth to usually concave mountain side slopes on all aspects. The site is typically associated with talus and rubbleland lying below areas of rock outcrop and on fractured bedrock covered with shallow soil. Sites dominated by snowberry are often associated with landform features that cause deep snow accumulation on more gentle slopes where soils contain high rock volumes or rubble. Annual precipitation ranges from 35.5 cm and 46 cm (14" and 18"). Grasses are represented as species of bluebunch wheatgrass (<i>Pseudoroegneria spicata</i>), Thurber's needlegrass (<i>Achnatherum thurberianum</i>), mountain brome (<i>Bromus marginatus</i>), slender wheatgrass (<i>Elymus trachycaulus</i>), and basin wildrye (<i>Leymus cinereus</i>).</p>
A 11060010	Early-all: >10% cover of resprouting mountain shrubs; <10% cover of sagebrush; ≥10% grass and forb cover; 0-4 yrs
B 11060021	Mid-closed: >30% cover of fast and slow growing mountain shrubs (mountain snowberry, Utah serviceberry, chokecherry); <10% cover of sagebrush; ≥10% herbaceous cover; 5-19 yrs
C 11060032	Late-open: 5-10% cover of conifer sapling <2m tall; >30% cover of serviceberry, antelope bitterbrush, mountain snowberry, or chokecherry; <10% cover of sagebrush; ≥10% herbaceous cover; 20-79 yrs
D 11060042	Late-Open: 10-20% cover pinyon-juniper >2m tall; >25-40% cover of serviceberry, antelope bitterbrush, mountain snowberry, or chokecherry; <10% cover of sagebrush; ≥5% herbaceous cover; ≥80 yrs
U-A:Bare Ground (aka: BAGR) 11060101	Bare-ground: Mostly mineral soil due to anthropogenic disturbances
U-A:Exotic Forb (aka: EF) 11060108	Exotic-Forb-early: 5-100% exotic forbs (thistles, halogeton, knapweed); >10% cover of resprouting mountain shrubs; <10% cover of sagebrush; native grass and forbs may be present
U-B:Exotic Forb (aka: EF) 11060208	Exotic-Forb-mid: 5-100% exotic forbs (thistles, halogeton, knapweed); >30% cover of fast and slow growing mountain shrubs (mountain snowberry, Utah serviceberry, chokecherry); <10% cover of sagebrush; native grass and forbs may be present
U-C:Exotic Forb (aka: EF) 11060308	Exotic-Forb-late: 5-100% exotic forbs (thistles, halogeton, knapweed); 5-10% cover of conifer sapling <2m tall; >30% cover of serviceberry, antelope bitterbrush, mountain snowberry, or chokecherry; <10% cover of sagebrush; native grass and forbs may be present
U-A:Early Shrub (aka: ES) 11060105	Early-Shrub-early: >20% cover rabbitbrush species; >10% cover of resprouting mountain shrubs; <10% cover of sagebrush; <5% non-native annual species cover; native grasses and forbs may be present to common
U-B:Early Shrub (aka: ES) 11060205	Early-Shrub-mid: >20% cover rabbitbrush species; >30% cover of fast and slow growing mountain shrubs (mountain snowberry, Utah serviceberry, chokecherry); <10% cover of sagebrush; <5% non-native annual species cover; native grasses and forbs may be present to common

U-C:Early Shrub (aka: ES) 11060305	Early-Shrub-late: >20% cover rabbitbrush species; 5-10% cover of conifer sapling <2m tall; >30% cover of serviceberry, antelope bitterbrush, mountain snowberry, or chokecherry; <10% cover of sagebrush; <5% non-native annual species cover; native grasses and forbs may be present to common
U-B:Depleted (aka: DP) 11060203	Depleted-mid: >30% cover of less palatable shrubs and big sagebrush; <10% native grass cover; <5% non-native annual species cover; unpalatable native forbs often present to common
U-C:Depleted (aka: DP) 11060303	Depleted-late: <10% young conifer cover; >30% cover of less palatable shrubs and big sagebrush; <10% native grass cover; <5% non-native annual species cover; unpalatable native forbs often present to common
U-A:SAP 11060124	Shrub-Annual-Species-Perennial-Grass-early: ≥5% non-native annual species cover; >10% cover of resprouting mountain shrubs; <10% big sagebrush cover; >0% native herbaceous cover
U-B:SAP 11060224	Shrub-Annual-Species-Perennial-Grass-mid: ≥5% non-native annual species cover; >30% cover of serviceberry, antelope bitterbrush, mountain snowberry, or chokecherry; <10% big sagebrush cover; native herbaceous cover usually present
U-C:SAP 11060324	Shrub-Annual-Species-Perennial-Grass-late: <10% young conifer cover; ≥5% non-native annual species cover; >30% cover of serviceberry, antelope bitterbrush, mountain snowberry, or chokecherry; <10% cover of sagebrush; native herbaceous cover usually present
U-A:SI (aka: SDI-A) 11060129	Seeded-Introduced-Early: >10% seeded introduced grasses; >10% cover of resprouting mountain shrubs; native grasses present to common; <5% cover of non-native annual species
U-B:SI (aka: SDI-B) 11060229	Seeded-Introduced-Mid-open: >10% seeded introduced grasses; >30% cover of resprouting mountain shrubs; native grasses present to common; <5% cover of non-native annual species
U-C:SI (aka: SDI-C) 11060329	Seeded-Introduced-Late-closed: >5% seeded introduced grasses; 5-10% cover of conifer sapling <2m tall; >30% cover of serviceberry, antelope bitterbrush, mountain snowberry, or chokecherry; <5% cover of non-native annual species
U-D:SI (aka: SDI-D) 11060429	Seeded-Introduced-Late-open: >5% seeded introduced grasses; 10-20% cover pinyon-juniper >2m tall; >25-40% cover of serviceberry, antelope bitterbrush, mountain snowberry, or chokecherry; <10% cover of sagebrush; ≥5% herbaceous cover
U-A:SI+AS (aka: SI-A+AS) 11060138	Seeded-Introduce +Annual-Species-early: >10% seeded introduced grasses; >10% cover of resprouting mountain shrubs; native grasses present to common; ≥5% cover of non-native annual species
U-B:SI+AS (aka: SI-B+AS) 11060238	Seeded-Introduced+Annual-Species-Mid-open: >10% seeded introduced grasses; >30% cover of resprouting mountain shrubs; native grasses present to common; ≥5% cover of non-native annual species
U-C:SI+AS (aka: SI-C+AS) 11060338	Seeded-Introduced+Annual-Species-Late1-closed: >5% seeded introduced grasses; native grasses present to common; <10% young conifer cover; >30% cover of serviceberry, antelope bitterbrush, mountain snowberry, or chokecherry; ≥5% cover of non-native annual species
U-D:SI+AS (aka: SI-D+AS) 11060438	Seeded-Introduced+Annual-Species-Late2-open: >5% seeded introduced grasses; native grasses present to common; 10-20% cover pinyon-juniper >2m tall; >25-40% cover of serviceberry, antelope bitterbrush, mountain snowberry, or chokecherry; ≥5% cover of non-native annual species;
U-D:TEA 11060444	Tree-encroached or Tree-annual-grass: >20% pinyon or juniper cover; if <5% annual grass cover then <5% shrub cover; <5% herbaceous cover; OR if ≥5% cover of annual grass then >0% shrub cover; >5% herbaceous cover
U-A:Unpalat. Forb (aka: UF) 11060146	Unpalatable-Forb-early: >25% Increaser forb cover, such as mules'ears wyethia or narrowleaf balsamroot; >10% cover of resprouting mountain shrubs; <10% big sagebrush cover; <10% native herbaceous cover

U-B:Unpalat. Forb (aka: UF) 11060246	Unpalatable-Forb-mid: >25% Increaser forb cover, such as mules'ears wyethia or narrowleaf balsamroot; >30% cover of serviceberry, antelope bitterbrush, mountain snowberry, or chokecherry; <10% big sagebrush cover; native herbaceous cover usually present
U-C:Unpalat. Forb (aka: UF) 11060346	Unpalatable-Forb-late1-open: >25% Increaser forb cover, such as mules'ears wyethia or narrowleaf balsamroot; <10% young conifer cover; >30% cover of serviceberry, antelope bitterbrush, mountain snowberry, or chokecherry; <10% cover of sagebrush; native herbaceous cover usually present
U-D:Unpalat. Forb (aka: UF) 11060446	Unpalatable-Forb-late2-open: >25% Increaser forb cover, such as mules'ears wyethia or narrowleaf balsamroot; 10-20% cover pinyon-juniper >2m tall; >25-40% cover of serviceberry, antelope bitterbrush, mountain snowberry, or chokecherry; <10% cover of sagebrush; ≥5% herbaceous cover
Pickleweed(PW)(11531)	11531- not GSG habitat
A 11531010	Early-all: >5% herbaceous cover of inland saltgrass (<i>Distichlis spicata</i>), alkali sacaton (<i>Sporobolus airoides</i>), or basin wildrye (<i>Leymus cinereus</i>); ≤5% young or resprouting pickleweed (<i>Salicornia</i> spp.); >25% mineral soil; flood debris may be abundant; 0-4 years
Pinyon-Juniper Woodland (PJ)(10190)	10190 – not GSG habitat
	Overview: The Pinyon-Juniper Woodland BpS is typically found from 1,600-2,743 m (5,250'-9,000') above the 25 cm (10") precipitation zone. This BpS generally occurs on most soils and landforms, especially fire-safe sites of steep (8% to 75% slopes) and rocky slopes. Soils supporting this system are generally skeletal and vary in texture ranging from stony, cobbly, gravelly sandy loams to clay loam or clay. Woodlands comprising this system are dominated by <i>Juniperus osteosperma</i> with <i>Pinus monophylla</i> increasing towards the south. Typical understory layers are variable and include big sagebrush (<i>Artemisia tridentata</i> spp.), antelope bitterbrush (<i>Purshia tridentata</i>), black sagebrush (<i>A. nova</i>), and curl-leaf mountain mahogany (<i>Cercocarpus ledofolius</i>). Grass and shrub species are often diverse and common, although not abundant.
A 10190010	Early-all: 5-20% herbaceous cover; charred stumps and trunks; <10% cover of big sagebrush or bitterbrush; 0-9 yrs
B 10190022	Mid1-open: 11-30% cover big sagebrush or bitterbrush <1.0m; 10-40% herbaceous cover; 10-29 yrs
C 10190032	Mid2-open: 11-20% cover of young (<100 yrs old and usually conical) juniper and/or pinyon <5m; 10-20% shrub cover; <20% herbaceous cover; 30-99 yrs
D 10190042	Late-open: 21-60% cover of old juniper and/or pinyon, generally with thick lateral branches 5m-9m high; 10-40% shrub cover; <20% herbaceous cover; ≥100 yrs
U-A:Annual Spp (aka: AS) 10190100	Annual-Species: >10% non-native annual grasses cover; dead juniper visible; <5% native grass cover; <5% sagebrush or mountain shrub cover
U-A:Exotic Forb (aka: EF) 10190108	Exotic-Forbs-early: 5-100% exotic forbs (knapweed, thistles, halogeton); <20% herbaceous cover; charred stumps and trunks; sagebrush and mountain shrub cover
U-B:Exotic Forb (aka: EF) 10190208	Exotic-Forbs-mid1: 5-90% exotic forbs (knapweed, thistles, halogeton); 11-30% cover big sagebrush or bitterbrush <1.0m; <40% herbaceous cover
U-C:Exotic Forb (aka: EF) 10190308	Exotic-Forbs-mid2: 5-80% exotic forbs (knapweed, thistles, halogeton); 11-20% cover of young (<100 yrs old) juniper and/or pinyon <5m; 10-20% shrub cover; <20% herbaceous cover

U-A:SAP 10190124	Shrub-Annual-Species-Perennial-Grass-early: >5% non-native annual species; >5% native herbaceous cover; <10% cover of big sagebrush or bitterbrush
U-B:SAP 10190224	Shrub-Annual-Species-Perennial-Grass-mid1: >5% non-native annual species; 11-30% cover big sagebrush or bitterbrush <1.0m; >5% herbaceous cover; tree sapling can be present in older patches of this class
U-C:TEA (aka: TA) 10190344	Tree-Annual-Species-mid2: >5% non-native annual species cover; 11-20% cover of young juniper and/or pinyon; 10-40% shrub cover; native herbaceous varies greatly with soil productivity; ≥100 yrs
U-D:TEA (aka: TA) 10190444	Tree-Annual-Species-late: >5% non-native annual species cover; 20-60% cover of older juniper and/or pinyon <5m-9m; <40% shrub cover; native herbaceous varies greatly with soil productivity; ≥100 yrs
U-A:Unpalat. Forb (aka: UF) 10190146	Unpalatable-Forb-early: >25% Increaser forb cover, such as mules'ears wyethia or narrowleaf balsamroot; <10% cover of sagebrush, mountain brush; <10% herbaceous cover <5% cover of non-native annual species; conifer absent
U-B:Unpalat. Forb (aka: UF) 10190246	Unpalatable-Forb-mid1: >25% Increaser forb cover, such as mules'ears wyethia or narrowleaf balsamroot; 11-29% cover of sagebrush (dominant) and mountain brush; <40% native herbaceous cover; <5% cover of non-native annual species; tree sapling can be present in older patches of this class
U-C:Unpalat. Forb (aka: UF) 10190346	Unpalatable-Forb-mid2: >25% Increaser forb cover, such as mules'ears wyethia or narrowleaf balsamroot; 10-20% cover of young juniper and/or pinyon; 10-40% shrub cover; native herbaceous varies greatly with soil productivity
U-D:Unpalat. Forb (aka: UF) 10190446	Unpalatable-Forb-late: >25% Increaser forb cover, such as mules'ears wyethia or narrowleaf balsamroot; 20-60% cover of older juniper and/or pinyon <5m-9m; <40% shrub cover; native herbaceous varies greatly with soil productivity
U-A:SI (aka: SDI-A) 10190129	Seeded-Introduced-Early: >10% seeded introduced grasses and shrubs; <10% canopy of sagebrush, mountain brush; native grasses present to common; <5% cover of non-native annual species
U-B:SI (aka: SDI-B) 10190229	Seeded-Introduced-Mid1: >10% seeded introduced grasses; >10% cover of sagebrush and mountain shrubs; native grasses present to common; <5% cover of non-native annual species; tree sapling can be present in older patches of this class
U-A:SI+AS (aka: SI-A+AS) 10190138	Seeded-Introduce+Annual-Species-Early: >10% seeded introduced grasses and shrubs; ≥5% cover of non-native annual species <10% canopy of sagebrush, mountain brush; native grasses present to common;
U-B:SI+AS (aka: SI-B+AS) 10190238	Seeded-Introduced+Annual-Species-Mid1: >10% seeded introduced grasses; >10% cover of mountain sage and mountain shrub; ≥5% cover of non-native annual species; native grasses present to common; tree sapling can be present in older patches of this class
10032 – not GSG habitat	
Roads-Local(10032)	
U-A:Bare Ground 10032101	Bare-Ground: Local dirt road bigger than two-track roads
10031 – not GSG habitat	
Roads-Paved(10031)	
U-A:Paved 10031120	Paved: Paved road

Saline Meadow (SM)(11451)	1145sm or 11451 – not GSG habitat
	<p>Overview: The Saline Meadow BpS is found at the bottom of broad valleys or axial valley, and on alluvial flats at elevations of 1,219 m to 1,829 m (4,000' to 6,000') with slopes between 0-4%, although more typically <2%, usually surrounded by salt tolerant plant communities. The BpS is wetted by an elevated water table at a depth of 102 cm (40") on saline soils and between 51-102 cm (20" to 40") on sodic floodplains that periodically rise to the surface during the spring or is spring-fed in broad valley bottoms. Saturated soils support graminoid dominance. Soils are deep saline and often calcareous or sodic and made of alluvium of mixed origins. Average annual precipitation ranges from 15 to 25 cm (6" to 10"). Alkali sacaton (<i>Sporobolus airoides</i>) and alkali muhly (<i>Muhlenbergia asperifolia</i>) dominate, although inland saltgrass (<i>Distichlis spicata</i>), and alkali cordgrass (<i>Spartina gracilis</i>) may co-dominate. Inland saltgrass dominates on sodic soils. Black greasewood (<i>Sarcobatus vermiculatus</i>), iodine bush (<i>Allenrolfea occidentalis</i>), silver buffaloberry (<i>Shepherdia argentea</i>), alkali rabbitbrush (<i>Chrysothamnus albidus</i>), and willow (<i>Salix</i> spp.) may be present at low abundance. As the sodium concentration in the soil increases, vegetation cover decreases from <70% to <15%.</p>
A 11451010	Early-all: 10-39% alkali sacaton and other salt-tolerant grasses cover; >60% mineral soil cover; 0-2 yrs
B 11451021	Mid-closed: ≥40% alkali sacaton and other salt-tolerant grasses cover; >30% mineral soil cover; <5% shrub cover; 3-22 yrs
C 11451032	Late-open: 5-10% shrub (greasewood and other shrubs) cover; ≥40% alkali sacaton and other salt-tolerant grasses cover; >50% mineral soil cover; >22 yrs
U-A:Annual Spp (aka: AS) 11451100	Annual-Species: ≥10% cover of non-native annual species; <10% inland saltgrass, Baltic rush cover, and other salt-tolerant grasses cover; <10% shrub cover; >30% mineral soil cover
U-A:Bare Ground (aka: BAGR) 11451101	Bare-Ground: Bare-ground: Mostly mineral soil due to anthropogenic disturbances
U-B:Depleted (aka: DP) 11451203	Depleted: <5% shrub cover (greasewood and other shrubs); <40% of inland saltgrass and Baltic rush cover; 10-30% cover of bare ground
U-C:Depleted (aka: DP) 11451303	Depleted: ≥5% shrub cover (greasewood and other shrubs); <40% of inland saltgrass and Baltic rush cover; 10-30% cover of bare ground
U-A:Exotic-Forb-Tree (aka: EFT) 11451108	Exotic-Forb-Tree-early: >5% cover of exotic forb species or tree species (knapweed, tall whitetop, thistles, purple loosestrife, saltcedar, Russian olive); 10-39% alkali sacaton and other salt-tolerant grasses cover; native shrub absent; 10-30% cover of bare ground
U-B:Exotic-Forb-Tree (aka: EFT) 11451206	Exotic-Forb-Tree-mid: >5% cover of exotic forb species or tree species on un-incised waterways (knapweed, tall whitetop, thistles, purple loosestrife, saltcedar, Russian olive); <5% shrub cover (greasewood and other shrubs); ≥40% of inland saltgrass and Baltic rush cover; 10-30% cover of bare ground
U-C:Exotic-Forb-Tree (aka: EFT) 11451306	Exotic-Forb-Tree-late: >5% cover of exotic forb species or tree species on un-incised waterways (knapweed, tall whitetop, thistles, purple loosestrife, saltcedar, Russian olive); ≥5% shrub cover (greasewood and other shrubs); ≥40% of inland saltgrass and Baltic rush cover; 10-30% cover of bare ground
U-A:Hummocked (aka: HU) 11451110	Hummocked: Trampled by ungulates; graminoids present to common in and out of holes created by ungulate hoofs

U-A:SAP (aka: ASPG) 11451124	Shrub-Annual-Species-Perennial-Grass-early: ≥5% cover of non-native annual species; 10-39% inland saltgrass, Baltic rush cover, and other salt-tolerant grasses cover; native shrubs absent; >20% mineral soil cover
U-B:SAP 11451224	Shrub-Annual-Species-Perennial-Grass-mid: ≥5% non-native annual species cover; <5% cover of native shrubs; ≥40% inland saltgrass and Baltic rush cover
U-C:SAP 11451324	Shrub-Annual-Species-Perennial-Grass-late: ≥5 non-native annual species cover; ≥5% cover of native shrubs; ≥10% inland saltgrass and Baltic rush cover
11350 – GSG habitat	
Semi-Desert Grassland (SDG)(11350)	
	Overview: The Semi-Desert Grassland BpS occupies sandy soil and is found at approximately 1,450m to 2,320 m (4,750'-7,610') of elevation. Indian ricegrass (<i>Achnatherum hymenoides</i>) is often the diagnostic and dominant grass species. Needle-and-thread (<i>Hesperostipa comata</i>) is also common with greater soil moisture. These grasslands occur in lowland and upland areas and may occupy swales, playas, mesa tops, plateau parks, alluvial flats, and plains, but sites are typically xeric. Substrates are often well-drained sandy or loamy-textured soils derived from sedimentary parent materials but are quite variable and may include fine-textured soils derived from igneous and metamorphic rocks. Where they occur near foothill grasslands, they will be at lower elevations. These grasslands occur on a variety of aspects and slopes. Sites may range from flat to moderately steep. Annual precipitation is usually from 20-40 cm (7.9"-15.7"). Grasslands within this system are typically characterized by a sparse to moderately dense herbaceous layer dominated by medium-tall and short bunch grasses, often in a sod-forming growth. The dominant perennial bunch grasses and shrubs within this system are all very drought-resistant plants. In some sites, scattered and usually old pinyon (<i>Pinus monophylla</i>) and juniper (<i>Juniperus oestosperma</i>) can be present in late succession as a result of badlands dynamics.
A 1135010	Early-all: <5% shrub cover (rabbitbrush, snakeweed, big sagebrush, salt desert species); >10% cover of grasses (Indian ricegrass, needle-and-thread, desert needlegrass); sandy soil cover may be high; 0-19 yrs
B 11350021	Late-closed: ≥5% shrub cover (rabbitbrush, sagebrush, salt desert species); >25% cover of grasses (Indian ricegrass, needle-and-thread, desert needlegrass); <20% cover of pinyon or juniper saplings earlier during succession and older scattered individuals much later in succession; sandy soil cover may be high; ≥20 yrs
U-A:Bare Ground (aka: BAGR) 11350101	Bare-Ground: Mostly mineral soil due to anthropogenic disturbances
U-B:Depleted (aka: DP) 11350203	Depleted: ≥5% shrub (mostly rabbitbrush, sagebrush, salt desert species) cover; <10% cover of grasses; 10-30% bare ground cover; <20% cover of pinyon or juniper; sandy soil cover may be high
U-A:Early Shrub (aka: ES) 11350105	Early Shrub-early: ≥10% cover of rabbitbrush; <5% cover of big sagebrush and salt desert species; ≤10% native grass cover; 10-30% bare ground cover; sandy soil cover may be high
U-B:Early Shrub (aka: ES) 11350205	Early Shrub-late: ≥10% cover of rabbitbrush; ≥5% cover of big sagebrush and salt desert species; ≤10% native grass cover; 10-30% bare ground cover; sandy soil cover may be high
U-A:SAP (aka: ASPG) 11350124	Shrub-Annual-Perennial-Grass-early: ≥5% cover of annual grasses; <5% shrub (mostly rabbitbrush, sagebrush, and salt desert species) cover; native grasses may be present to common; sandy soil cover may be high

U-B:SAP 11350224	Shrub-Annual-Perennial-Grass-late: ≥5% cover of annual grasses; ≥5% shrub (mostly rabbitbrush, sagebrush, and salt desert species) cover; native grasses may be present to common; <20% cover of pinyon or juniper; sandy soil cover may be high
U-A:SI (aka: SDI) 11350129	Seeded-Introduced-early: >10% cover of introduced seeded grass species; <5% cover of cheatgrass; <5% cover of sagebrush and other salt desert shrubs; native grasses may be present to common; sandy soil cover may be moderately high
U-B:SI (aka: SDI) 11350229	Seeded-Introduced-late: >10% cover of introduced seeded grass species; <5% cover of cheatgrass; ≥5% cover of sagebrush and other salt desert shrubs; native grasses may be present to common; sandy soil cover may be moderately high
U-A:SI+AS (aka: SDI+AS) 11350138	Seeded-Introduced+Annual-Species-early: >10% cover of introduced seeded grass species; ≥5% cover of annual grasses; <5% cover of sagebrush and other salt desert shrubs; native grasses may be present to common; sandy soil cover may be moderately high
U-B:SI+AS (aka: SDI+AS) 11350238	Seeded-Introduced+Annual-Species-late: >10% cover of introduced seeded grass species; ≥5% cover of annual grasses; ≥5% cover of sagebrush and other salt desert shrubs; native grasses may be present to common; sandy soil cover may be moderately high
Subalpine-Upper Montane Grassland (SMG)(11400)	11400 – GSG habitat
	Overview: The Subalpine-Upper Montane Grassland BpS ranges from elevations of 1,676 m to over 3,048 m (5,500' to over 10,000'). Average annual precipitation is >36 cm (>14"). The soils are moderately deep to very deep to bedrock and well drained. These soils are modified by high volumes of pebbles, gravel, rock fragments through their profile. Heavy snow accumulation on this site often persists into summer and significantly reduces the potential plant growth period. Snow melt adds to the soils moisture supply. Site is medium to rapid and potential for surface erosion is moderate to high depending on slope. Graminoids dominant and species composition changes with elevation. At lower elevations, meadow barley (<i>Hordeum brachyantherum</i>), bluegrasses (<i>Poa</i> spp.), and sedges (<i>Carex</i> spp.) dominate. As elevation increases, Idaho fescue (<i>Festuca idahoensis</i>), Cusick's bluegrass (<i>Poa cusickii</i>), and bluebunch wheatgrass (<i>Pseudoroegneria spicata</i>) become dominant, and mountain big sagebrush (<i>Artemisia tridentata</i> spp. <i>vaseyana</i>) is a minor shrub component. At subalpine elevation, slender wheatgrass (<i>Elymus trachycaulus</i>) and Letterman's needlegrass (<i>Achnatherum lettermanii</i>) are dominant, whereas wyethia (<i>Wyethia</i> spp.) and lupines (<i>Lupinus</i> spp.) are sub-dominant forb species. A few shrub species are normally incidental: rabbitbrush (<i>Chrysothamnus</i> spp.), mountain snowberry (<i>Symphoricarpos oreophilus</i>), Wood's rose (<i>Rosa woodsii</i>), or low sagebrush (<i>Artemisia arbuscula</i>).
A 11400010	Early-all: 5-19% grass and sedge cover; ≤20% forb cover; abundant bare ground and rock cover; <5% shrub cover; 0-4 yrs
B 11400021	Mid-closed: ≥20% graminoid cover; ≤10% forb cover; abundant bare ground and rock cover; <5% shrub cover; 5-9 yrs
C 11400032	Late-open: 5-10% shrub cover; ≥20% graminoid cover; common bare ground and rock cover; <5% palatable forb cover; >10 yrs
U-A:Unpalat. Forb (aka: UF) 11260146	Unpalatable-Forb-early: >20% Increaser forb cover, such as lupine, mules'ears wyethia or narrowleaf balsamroot; <20% native grass cover; ≤20% palatable forb cover; <5% shrub cover

U-B:Unpalat. Forb (aka: UF) 11260246	Unpalatable-Forb-mid: >20% Increaser forb cover, such as lupine, mules' ears wyethia or narrowleaf balsamroot; ≥20% graminoid cover; ≤10% palatable forb cover; abundant bare ground and rock cover; <5% shrub cover
U-C:Unpalat. Forb (aka: UF) 11260346	Unpalatable-Forb-late: >20% Increaser forb cover, such as lupine, mules' ears wyethia or narrowleaf balsamroot; ≥5% shrub cover; native grass cover highly variable; <5% palatable forb cover
Water(10040)	10040 – not GSG habitat
A 10040011	Water: natural waterway
U-A:Water 10040148	Anthropogenic Water: water in reservoirs, impoundment, or irrigation ditch
Wet Meadow - bottomland (WMB)(11452)	1145wmb or 11452 – not GSG habitat
	<i>Overview:</i> The Wet Meadow-bottomland BpS is found in bottomland floodplains or adjacent to valley axial streams. Slope is typically less than 2%. The BpS is wetted by an elevated water table about 51 cm (20") from the surface during the growing season and adjacent to rivers, or is spring-fed. Saturated soils support graminoid dominance. Elevation is generally below 1,524 m (5,000') and annual precipitation is between 15 cm and 25 cm (6" and 10"). Being in a floodplain away from the main channel, bottomland wet meadows can experience large flood events and fine sediment accumulation. Above 20 cm (8") of annual precipitation, tufted hairgrass (<i>Deschampsia cespitosa</i>) dominates and Nevada bluegrass (<i>Poa nevadensis</i>) codominates, whereas Alkali bluegrass (<i>Poa juncifolia</i>) dominates and alkali sacaton (<i>Sporobolus airoides</i>) codominates below 20 cm (8") of annual precipitation. Baltic rush (<i>Juncus balticus</i>), inland saltgrass (<i>Distichlis spicata</i>), and alkali cordgrass (<i>Spartina gracilis</i>) are also common, especially as soil become more saline or sodic. The presence of shrubs (willow [<i>Salix</i> spp.], Wood's rose [<i>Rosa woodsii</i>], silver buffaloberry [<i>Shepherdia argenta</i>]) at the meadow's edge increases during consecutive drought years and decreases during consecutive high water years.
A 11452010	Early-all: 10-60% herbaceous cover – mostly graminoids; 0-2 yrs
B 11452021	Mid-closed: 61-100% herbaceous cover – mostly graminoids; <5% woody species; 3-22 yrs
C 11452032	Late-open: 5-10% tree-shrub (willow, Wood's rose, silver sagebrush, silver buffaloberry) cover; 60-80% herbaceous cover – mostly graminoids; >22 yrs
U-A:Annual Spp (aka: AS) 11450100	Annual-Species (on incised meadow): >10% cover of non-native annual species; <5% shrub cover; <5% cover of native grass species
U-A:Bare Ground (aka: BAGR) 11452101	Bare-ground: Mostly mineral soil due to anthropogenic disturbances
U-B:Depleted (aka: DP) 11452203	Depleted (incised)-mid: Incised meadow creek with 5-10% cover of upland shrubs (e.g., big sagebrush, snakeweed, rabbitbrush, Wood's Rose); <5% native graminoid cover; <5% non-native annual species cover

U-C:Depleted (aka: DP) 11452303	Depleted (incised)-late: Incised meadow creek with >10% cover of upland shrubs (e.g., big sagebrush, snakeweed, rabbitbrush, Wood's Rose); <5% native graminoid cover; <5% non-native annual species cover
U-A:Desertified (aka: DE) 11452104	Desertified (incised)-early: Incised meadow creek with 5-20% native graminoid cover; 0% cover of upland shrubs (e.g., big sagebrush, snakeweed, rabbitbrush, Wood's Rose, silver buffaloberry); <5% non-native annual species cover
U-B:Desertified (aka: DE) 11452204	Desertified (incised)-mid: Incised meadow creek with ≤10% cover of upland shrubs (e.g., big sagebrush, snakeweed, rabbitbrush, Wood's Rose); 21-80% native graminoid cover; <5% non-native annual species cover
U-C:Desertified (aka: DE) 11452304	Desertified (incised)-late: Incised meadow creek with >10% cover of upland shrubs (e.g., big sagebrush, snakeweed, rabbitbrush, Wood's Rose); <75% native graminoid cover; <5% non-native annual species cover
U-A:Exotic Forb (aka: EF) 11452108	Exotic-Forbs-early: >5% exotic forbs (knapweed, tall whitetop, purple loosestrife, thistles); 10-60% herbaceous cover – mostly graminoids
U-B:Exotic Forb (aka: EF) 11452208	Exotic-Forbs-mid: >5% exotic forbs (knapweed, tall whitetop, purple loosestrife, thistles); 61-100% herbaceous cover – mostly graminoids; <5% woody species
U-C:Exotic Forb (aka: EF) 11452308	Exotic-Forbs-late: >5% exotic forbs (knapweed, tall whitetop, purple loosestrife, thistles); >5% tree-shrub (willow, Wood's rose, silver sagebrush) cover; graminoid cover highly variable
U-A:Early Shrub (aka: ES) 11452105	Early-Shrub-early: on incised meadow >10% cover of rabbitbrush or snakeweed species; big sagebrush and rabbitbrush uncommon; native grasses may be present; <5% cover of non-native annual species
U-B:Early Shrub (aka: ES) 11452205	Early-Shrub-mid: on incised meadow >10% cover of rabbitbrush or snakeweed species; 1-11% cover of big sagebrush; native grasses may be present; <5% cover of non-native annual species
U-C:Early Shrub (aka: ES) 11452305	Early-Shrub-late: on incised meadow >10% cover of rabbitbrush or snakeweed species; ≥11% cover of big sagebrush; native grasses may be present; <5% cover of non-native annual species
U-A:Hummocked (aka: HU) 11452110	Hummocked: Trampled by ungulates; graminoids present to common in and out of holes created by ungulate hoofs
U-A:Incised-EFT 11452111	Incised-Exotic-Forb-Tree-early: >5% cover of exotic forb species or tree species on <u>incised</u> banks (knapweed, tall whitetop, thistles, purple loosestrife, saltcedar, Russian olive); 5-20% native grass cover; 0% cover of upland shrubs
U-B:Incised-EFT 11452211	Incised-Exotic-Forb-Tree-mid: >5% cover of exotic forb species or tree species on <u>incised</u> banks (knapweed, tall whitetop, thistles, purple loosestrife, saltcedar, Russian olive); <10% cover of upland shrubs (e.g., big sagebrush, snakeweed, rabbitbrush, Wood's Rose); non-native annual species cover may be present; <80% native grass cover
U-C:Incised-EFT 11452311	Incised-Exotic-Forb-Tree-late: >5% cover of exotic forb species or tree species on <u>incised</u> banks (knapweed, tall whitetop, thistles, purple loosestrife, saltcedar, Russian olive); >10% cover of upland shrubs (e.g., big sagebrush, snakeweed, rabbitbrush, Wood's Rose); non-native annual species cover may be present; <75% native grass cover
U-A:Pasture (aka: PAS) 11452119	Pasture: Agricultural pasture
U-A:SAP (aka: ASPG) 11452124	Shrub-Annual-Species-Perennial-Grass (on incised meadow)-early: >5% native grass may be present; ≥5% cover of non-native annual species; <10% cover of native shrubs

U-B:SAP 11452224	Shrub-Annual-Species-Perennial-Grass (on incised meadow)-mid: 10-19% cover of native shrubs; ≥5% cover of native grass; ≥5% cover of non-native annual species
U-C:SAP 11452324	Shrub-Annual-Species-Perennial-Grass (on incised meadow)-late: ≥20% cover of native shrubs; ≥5% cover of native grass; ≥5% cover of non-native annual species
U-A:Shrb-Frb Encr (aka: SFE) 11452137	Shrub-Forb-Encroached-early: >10% cover of less palatable grasses and forbs (e.g., <i>Iris missouriensis</i>); 10-60% herbaceous cover – mostly graminoids; no woody cover; 10-30% cover of bare ground
U-B:Shrb-Frb Encr (aka: SFE) 11452237	Shrub-Forb-Encroached-mid: >10% cover of less palatable grasses and forbs (e.g., <i>Iris missouriensis</i>); 61-80% herbaceous cover – mostly graminoids; <5% shrub cover (willow, Wood’s rose, silver sagebrush); 10-30% cover of bare ground
U-C:Shrb-Frb Encr (aka: SFE) 11452337	Shrub-Forb-Encroached-late: >10% shrub cover (willow, Wood’s rose, silver sagebrush); less palatable grasses and forbs (e.g., <i>Iris missouriensis</i>) may be present to common; <80% herbaceous cover – mostly graminoids; 10-30% cover of bare ground
Wet Meadow - montane (WM)(11450)	1145wm or 11450 – GSG habitat
	Overview: The Wet Meadow BpS is wetted by an elevated water table about 51 cm (20”) from the surface during the growing season and adjacent to creeks or rivers, or is spring-fed. Three types are included here: true wet meadows close to mountain streams and around or below seeps and springs, clay seeps dominated by grasses and mules’ ears wyethia, and dry “wet” meadows that dry out during the hot season. Saturated soils support graminoid dominance. Elevation ranges from 1,524 m to 2,896 m (5,000’ to 9,500’) and annual precipitation is between 25 cm and 41 cm (10” and 16”). Tufted hairgrass (<i>Deschampia cespitosa</i>) dominates and Nevada bluegrass (<i>Poa nevadensis</i>) codominates in true wet meadows, whereas Nevada bluegrass dominates in dry meadows. Alpine timothy (<i>Phleum alpinum</i>) and sedges (<i>Carex</i> spp.) are also common in both types of wet meadows. Clay seeps are dominated by Idaho fescue (<i>Festuca idahoensis</i>), mountain brome (<i>Bromus marginatus</i>), mules’ ears wyethia (<i>Wyethia amplexicaulis</i>), and whitehead wyethia (<i>Wyethia helenioides</i>). The presence of shrubs (willow [<i>Salix</i> spp.], Wood’s rose [<i>Rosa woodsii</i>], silver sagebrush [<i>Artemisia cana</i>]) at the meadow’s edge increases during consecutive drought years and decreases during consecutive high water years.
A 11450010	Early-all: 10-60% herbaceous cover – mostly graminoids; 0-2 yrs
B 11450021	Mid-closed: 61-100% herbaceous cover – mostly graminoids; <5% woody species; 3-22 yrs
C 11450032	Late-open: 5-10% tree-shrub (willow, Wood’s rose, silver sagebrush) cover; 60-80% herbaceous cover – mostly graminoids; >22 yrs
U-A:Annual Spp (aka: AS) 11450100	Annual-Species (on incised meadow): >10% cover of non-native annual species; < 10% shrub cover; <5% cover of native grass species
U-A:Bare Ground (aka: BAGR) 11450101	Bare-Ground: Mostly mineral soil due to anthropogenic disturbances
U-B:Depleted (aka: DP) 11450203	Depleted (incised)-mid: Incised meadow creek with 5-10% cover of upland shrubs (e.g., big sagebrush, snakeweed, rabbitbrush, Wood’s Rose); <5% native graminoid cover; <5% non-native annual species cover
U-C:Depleted (aka: DP) 11450303	Depleted (incised)-late: Incised meadow creek with >10% cover of upland shrubs (e.g., big sagebrush, snakeweed, rabbitbrush, Wood’s Rose); <5% native graminoid cover; <5% non-native annual species cover

U-A:Desertified (aka: DE) 11450104	Desertified (incised)-early: Incised meadow creek with 5-20% native graminoid cover; 0% cover of upland shrubs (e.g., big sagebrush, snakeweed, rabbitbrush, Wood's Rose, silver buffaloberry); <5% non-native annual species cover
U-B:Desertified (aka: DE) 11450204	Desertified (incised)-mid: Incised meadow creek with ≤10% cover of upland shrubs (e.g., big sagebrush, snakeweed, rabbitbrush, Wood's Rose); 21-80% native graminoid cover; <5% non-native annual species cover
U-C:Desertified (aka: DE) 11450304	Desertified (incised)-late: Incised meadow creek with >10% cover of upland shrubs (e.g., big sagebrush, snakeweed, rabbitbrush, Wood's Rose); <75% native graminoid cover; <5% non-native annual species cover
U-A:Exotic Forb (aka: EF) 11450108	Exotic-Forbs-early: >5% exotic forbs (knapweed, tall whitetop, purple loosestrife, thistles); 10-60% herbaceous cover – mostly graminoids
U-B:Exotic Forb (aka: EF) 11450208	Exotic-Forbs-mid: >5% exotic forbs (knapweed, tall whitetop, purple loosestrife, thistles); 61-100% herbaceous cover – mostly graminoids; <5% woody species
U-C:Exotic Forb (aka: EF) 11450308	Exotic-Forbs-late: >5% exotic forbs (knapweed, tall whitetop, purple loosestrife, thistles); >5% tree-shrub (willow, Wood's rose, silver sagebrush) cover; graminoid cover highly variable
U-A:Early Shrub (aka: ES) 11450105	Early-Shrub-early: on incised meadow >10% cover of rabbitbrush or snakeweed species; big sagebrush and rabbitbrush uncommon; native grasses may be present; <5% cover of non-native annual species
U-B:Early Shrub (aka: ES) 114501205	Early-Shrub-mid: on incised meadow >10% cover of rabbitbrush or snakeweed species; 1-11% cover of big sagebrush; native grasses may be present; <5% cover of non-native annual species
U-C:Early Shrub (aka: ES) 11450305	Early-Shrub-late: on incised meadow >10% cover of rabbitbrush or snakeweed species; ≥11% cover of big sagebrush; native grasses may be present; <5% cover of non-native annual species
U-A:Hummocked (aka: HU) 11450110	Hummocked: Trampled by ungulates; graminoids present to common in and out of holes created by ungulate hoofs
U-A:Incised-EFT 11450111	Incised-Exotic-Forb-Tree-early: >5% cover of exotic forb species or tree species on <u>incised</u> banks (knapweed, tall whitetop, thistles, purple loosestrife, saltcedar, Russian olive); 5-20% native grass cover; 0% cover of upland shrubs
U-B:Incised-EFT 11450211	Incised-Exotic-Forb-Tree-mid: >5% cover of exotic forb species or tree species on <u>incised</u> banks (knapweed, tall whitetop, thistles, purple loosestrife, saltcedar, Russian olive); <10% cover of upland shrubs (e.g., big sagebrush, snakeweed, rabbitbrush, Wood's Rose); non-native annual species cover may be present; <80% native grass cover
U-C:Incised-EFT 11450311	Incised-Exotic-Forb-Tree-late: >5% cover of exotic forb species or tree species on <u>incised</u> banks (knapweed, tall whitetop, thistles, purple loosestrife, saltcedar, Russian olive); >10% cover of upland shrubs (e.g., big sagebrush, snakeweed, rabbitbrush, Wood's Rose); non-native annual species cover may be present; <75% native grass cover
U-A:Pasture (aka: PAS) 11450119	Pasture: Agricultural pasture
U-A:SAP (aka: ASPG) 11450124	Shrub-Annual-Species-Perennial-Grass (on incised meadow)-early: >5% native grass may be present; ≥5% cover of non-native annual species; <10% cover of native shrubs
U-B:SAP 11450224	Shrub-Annual-Species-Perennial-Grass (on incised meadow)-mid: 10-19% cover of native shrubs; ≥5% cover of native grass; ≥5% cover of non-native annual species

U-C:SAP 11450324	Shrub-Annual-Species-Perennial-Grass (on incised meadow)-late: ≥20% cover of native shrubs; ≥5% cover of native grass; ≥5% cover of non-native annual species
U-A:Shrb-Frb Encr (aka: SFE) 11450137	Shrub-Forb-Encroached-early: >10% cover of less palatable grasses and forbs (e.g., <i>Iris missouriensis</i>); 10-60% herbaceous cover – mostly graminoids; no woody cover; 10-30% cover of bare ground
U-B:Shrb-Frb Encr (aka: SFE) 11450237	Shrub-Forb-Encroached-mid: >10% cover of less palatable grasses and forbs (e.g., <i>Iris missouriensis</i>); 61-80% herbaceous cover – mostly graminoids; <5% shrub cover (willow, Wood’s rose, silver sagebrush, rabbitbrush); 10-30% cover of bare ground
U-C:Shrb-Frb Encr (aka: SFE) 11450337	Shrub-Forb-Encroached-late: >10% shrub cover (willow, Wood’s rose, silver sagebrush); less palatable grasses and forbs (e.g., <i>Iris missouriensis</i>) may be present to common; <80% herbaceous cover – mostly graminoids; 10-30% cover of bare ground
U-A:SI (aka: SDI-A) 10801129	Seeded-Introduced-early: >10% seeded introduced grasses, with native grasses and forbs possible; <5% of non-native annual species
U-B:SI (aka: SDI-B) 10801229	Seeded-Introduced-mid: >10% seeded introduced grasses, with native grasses and forbs possible; 1-10% cover of shrubs (big sagebrush, rabbitbrush); <5% of non-native annual species
U-C:SI (aka: SDI-C) 10801329	Seeded-Introduced-late: >10% seeded introduced grasses, with native grasses and forbs possible; >10% cover of shrubs (big sagebrush, rabbitbrush); <5% of non-native annual species
U-A:SI+AS (aka: SI-A+AS) 10801128	Seeded-Introduced+Annual-Species-early: >10% seeded introduced grasses, with native grasses and forbs possible; shrubs generally absent; ≥5% cover of non-native annual species
U-B:SI+AS (aka: SI-B+AS) 10801228	Seeded-Introduced+Annual-Species-mid: >10% seeded introduced grasses, with native grasses and forbs possible; 1-10% cover of shrubs (big sagebrush, rabbitbrush); ≥5% cover of non-native annual species
U-C:SI+AS (aka: SI-C+AS) 10801328	Seeded-Introduced+Annual-Species-late: >10% seeded introduced grasses, with native grasses and forbs possible; >10% cover of shrubs (big sagebrush, rabbitbrush); ≥5% cover of non-native annual species
U-A:Stock Tank 11450143	Stock-Tank: stock pond or stock tank in meadow
Wetland (WL)(11543)	1001wl or 11543 – not GSG habitat
	Overview: The Wetland BpS is found in bottomland floodplains or adjacent to valley axial streams. Wetlands are generally formed by flood events cutting river meanders and creating backwater wetlands or created by beaver activity.
Water (aka: W) 11543011	Water: Open water with <5% emergent vegetation cover
A 11543010	Early-all: 5%-24% emergent vegetation cover; remaining area is water
B 11543020	Late-all: ≥25% emergent vegetation cover; remaining area is water
U-A:Exotic Forb&Tree (aka: EFT) 11543106	Exotic-Forb-Tree-early: >1% noxious non-native forbs, tamarisk, or Russian olive; 5%-24% emergent vegetation cover; remaining area is water

U-B:Exotic Forb&Tree (aka: EFT) 115431206	Exotic-Forb-Tree-late: >1% noxious non-native forbs, tamarisk, or Russian olive; ≥25% emergent vegetation cover; remaining area is water
U-A:Hummocked (aka: HU) 11543110	Hummocked: Trampled by ungulates; graminoids present to common in and out of holes created by ungulate hoofs
Winterfat (WF)(10812)	1081wf or 10812 – not GSG habitat
	Overview: The winterfat BpS is generally considered part of the mixed salt desert scrub communities. Winterfat communities occupy saline silty or gravelly silty soils on shallow slopes between 1,219 – 1,829 m (4,000' - 6,000'). Such sites are often found in shallow washes with slopes typically <4%. Average annual precipitation ranges from 10 cm to 20 cm (4" to 8"). Winterfat (<i>Krascheninnikovia lanata</i>) is the dominant shrub, often monotypic. Shadscale (<i>Atriplex confertifolia</i>), budsage (<i>Artemisia spinescens</i>), snakeweed (<i>Gutierrezia</i> spp.), rabbitbrush (<i>Chrysothamnus</i> spp.) also can be common shrubs. Common grasses are Indian ricegrass (<i>Achnatherum hymenoides</i>), bottlebrush squirreltail (<i>Elymus elymoides</i>), and needle-and-thread (<i>Hesperostipa comate</i>).
A 10812010	Early-all: >10% Indian ricegrass, squirreltail, other native grasses; ≤5% cover of rabbitbrush, snakeweed, and other salt desert shrubs; <60% mineral soil <0.5m; 0-49 yrs
B 10812022	Mid1-open: 5-20% cover winterfat, budsage, rabbitbrush, and other desert shrubs <0.5m; >10% native grass cover; 50-149 yrs
C 10812030	Late1-closed: >20% cover winterfat, budsage, rabbitbrush, and other salt desert shrubs; >5% native grass cover; >150 yrs
U-A:Annual Spp (aka: AS) 10812100	Annual-Species: >10% non-native annual species cover; <5% cover of native shrubs; <5% native grass cover
U-A:Bare Ground (aka: BAGR) 11450101	Bare-Ground: Mostly mineral soil due to anthropogenic disturbances
U-B:Depleted (aka: DP) 10812203	Depleted-mid: 5-20% cover of winterfat; <5% herbaceous cover; <5% non-native annual species cover
U-C:Depleted (aka: DP) 10812303	Depleted-late: >20% cover of winterfat; <5% herbaceous cover; <5% non-native annual species cover
U-A:Exotic Forb (aka: EF) 10812108	Exotic-Forbs-early: >5% cover halogeton or exotic mustards; ≤5% cover of rabbitbrush, snakeweed, and other salt desert shrubs; <10% cover of non-native annual species; >50% mineral soil
U-B:Exotic Forb (aka: EF) 10812208	Exotic-Forbs-mid: >5% cover halogeton or exotic mustards; 5-20% cover winterfat, budsage, rabbitbrush, and other desert shrubs; <10% cover of non-native annual species; >50% mineral soil
U-C:Exotic Forb (aka: EF) 10812308	Exotic-Forbs-late: >5% cover halogeton or exotic mustards; >20% cover winterfat, budsage, rabbitbrush, and other salt desert shrubs; <10% cover of non-native annual species; >50% mineral soil
U-B:SA 10812221	Shrub-Annual-Species-mid: ≥5% non-native annual species cover; 5-20% cover of winterfat or other shrubs; <5% native grass cover
U-C:SA 10812321	Shrub-Annual-Species-Grass-late: ≥5% non-native annual species cover; >20% cover of winterfat or other shrubs; <5% native grass cover

U-A:SAP (aka: ASPG) 10812124	Shrub-Annual-Species-Perennial-Grass-early: ≥5% cover of non-native annual species; ≥5% native grass cover; <10% cover of rabbitbrush, snakeweed, and other salt desert species
U-B:SAP 10812224	Shrub-Annual-Species-Perennial-Grass-mid: ≥5% non-native annual species cover; 5-20% cover of winterfat or other shrubs; >5% native grass cover cover
U-C:SAP 10812324	Shrub-Annual-Species-Perennial-Grass-late: ≥5% non-native annual species cover; >20% cover of winterfat or other shrubs; >5% native grass cover cover
U-A:Seeded Native (aka: SD) 10812135	Seeded-Native-early: >5% native seed mix cover ≤5% cover of rabbitbrush, snakeweed, and other salt desert shrubs; <5% non-native annual species cover (if ≥5% non-native annual species cover, then see U-A:SAP or Annual Spp)
U-B:Seeded Native (aka: SD) 10812235	Seeded-Native-mid: 5-20% salt desert shrub cover; >5% native herbaceous seed mix cover; <5% non-native annual species cover (if ≥5% non-native annual species cover, then see U-B:SAP or U-B:SA)
U-A:SI (aka: SDI) 10812129	Seeded-Introduced-early: >5% seeded introduced grasses, forbs; ≤5% cover of rabbitbrush, snakeweed, and other salt desert shrubs; <5% non-native annual species cover;
U-B:SI (aka: SDI) 10812229	Seeded-Introduced-late: >5% seeded introduced grasses, forbs; 5-20% seeded salt desert shrub cover, including winterfat; <5% non-native annual species cover
U-A:SI+AS (aka: SDI+AS) 10812138	Seeded-Introduced+Annual-Species-early: >5% seeded introduced grasses and shrubs; ≤5% cover of rabbitbrush, snakeweed, and other salt desert shrubs; ≥5% non-native annual species cover
U-B:SI+AS (aka: SDI+AS) 10812238	Seeded-Introduced+Annual-Species-late: >5% seeded introduced grasses and shrubs; 5-20% seeded salt desert shrub cover, including winterfat; ≥5% non-native annual species cover

APPENDIX 2: Crosswalk Between NRCS Ecological Sites and TNC's Ecological Systems

TNC's Ecological System Name	Study Area	TNC Code	Ecological Site Name	Ecological Site Code	MLRA
Agriculture	PoO SA/ B SA	10070			
Aspen Woodland	PoO SA/ B SA	10110	Aspen Thicket	024XY036NV	24
			POTR5 WSG:1R1707	025XY065NV	25
			POTR5 WSG:2W1710	025XY064NV	25
			POTR5 WSG:2W1707	028BY067NV	28B
			POTR5 WSG:2W10	028By025NV	28B
Badland	PoO SA/ B SA	10002			
Barren-Playa	PoO SA/ B SA	10001			
Barren-Rock-Mud	PoO SA/ B SA	10000			
Basin Wildrye- bottomland	PoO SA/ B SA	10803	Deep Sodic Fan	024XY015NV	24
			Dry Floodplain	024XY006NV	24
			Saline Bottom	024XY007NV	24
			Dry Floodplain	028BY041NV	28B
			Saline Bottom	028BY004NV	28B
Basin Wildrye-montane	PoO SA/ B SA	10801	Deep Loamy 14+"P.Z. (atypical)	025XY029NV	25
			Loamy Bottom 14+"P.Z.	025XY081NV	25
			Loamy Bottom 8-14"P.Z.	025XY003NV	25
			Loamy Bottom 10-14"P.Z.	028BY003NV	28B
			Loamy Bottom 14+"P.Z.	028BY024NV	28B
Big Sagebrush- semidesert	PoO SA	10802	Droughty Loam 8-10"P.Z.	024XY020NV	24
			Ashy Loam 8-10" P.Z.	025XY066NV	25
			Loamy 8-10"P.Z.	025XY019NV, 028BY010NV	25, 28B
			Shallow Loam 8-10"P.Z.	024XY047NV, 028BY080NV	24, 28B
			Stony Slope 6-10"P.Z.	024XY026NV	24
			Droughty Loam 8-10"P.Z.	028BY052NV	28B
			Loamy Plain 8-10"P.Z.	028BY014NV	28B
			Silt Flat	028BY056NV	28B
Big Sagebrush Shrubland-upland with trees	PoO SA/ B SA	10804	Ashy Loam 10-12"P.Z.	025XY066NV	25
			Churning Clay8-12"P.Z.	024XY028NV	24
			Gravelly Clay 10-12"P.Z.	028BY086NV	28B
			Loamy Fan 8-10"P.Z.	025XY070NV	25
			Loamy Fan 8-12"P.Z.	028BY045NV	28B

TNC's Ecological System Name	Study Area	TNC Code	Ecological Site Name	Ecological Site Code	MLRA
			Shallow Loam 8-12"P.Z.,	024XY021NV, 025XY021NV	24, 25
			South Slope 8-12"P.Z.	025XY015NV	25
			Loamy 10-12" P.Z.	024XY013NV, 025XY014NV, 028BY007NV	24, 25, 28B
			Shallow Loam 10-14"P.Z.	024XY035NV, 025XY021NV	24, 25
			Steep North Slope 10-12"P.Z.	024XY033NV	24
			Barren Fan 8-12" P.Z. (atypical, inclusion of pygmy sagebrush)	028BY040NV	28B
Black Sagebrush	PoO SA/ B SA	10791	Chalky Knoll	025XY025NV	25
			Shallow Calcareous Slope 14"P.Z.	025XY041NV	25
			Shallow Calcareous Loam 10- 14"P.Z.	024XY031NV	24
			Shallow Calcareous Loam 8- 10"P.Z.	024XY030NV	24
			Calcareous Mountain Ridge	028BY048NV	28B
			Droughty Calcareous Loam 8- 10"P.Z.	028BY053NV	28B
			Shallow Calcareous Hill 10- 14"P.Z.	028BY059NV	28B
			Shallow Calcareous Slope 10- 14"P.Z.	023BY008NV	28B
			Shallow Calcareous Slope 14+"P.Z.	028BY027NV	28B
			Shallow Clay Loam 10-12"P.Z.	028BY089NV	28B
			Shallow Clay Loam 12-14"P.Z.	028BY093NV	28B
			Shallow Calcareous Loam 10- 12"P.Z.	028BY006NV	28B
			Shallow Calcareous Slope 8- 10"P.Z.	028BY016NV	28B
Curl-leaf Mountain Mahogany	PoO SA/ B SA	10620	Mahogany Savanna 14-16" P.Z.	025XY071NV	25
			Mahogany Savanna 16+"P.Z.	025XY075NV	25
			Mahogany Thicket	025XY030NV,0 28BY042NV	25, 28B
			Stony Mahogany Savanna	025XY031NV, 028BY032NV	25, 28B
			Calcareous Mahogany Savanna	028BY043NV	28B
			Limestone Hill (atypical)	028BY066NV	28B
Desert Wash	PoO SA/ B SA	11544			
Developed-Town	PoO SA/ B SA	10011			
Developed-Power Plant	PoO SA/ B SA	10012			

TNC's Ecological System Name	Study Area	TNC Code	Ecological Site Name	Ecological Site Code	MLRA
Four-Wing Saltbush	PoO SA/ B SA	10811	Clay Basin	028BY023NV	28B
			Droughty Loam 5-8"P.Z.	028BY078NV	28B
Greasewood	PoO SA/ B SA	11530	Sodic Dunes	024XY066NV	24
			Sodic Flat 6-8"P.Z.	024XY011NV	24
			Sodic Flat 8-10" P.Z.	024XY008NV, 028BY069NV	24, 28B
			Sodic terrace 6-8"P.Z.	024XY003NV	24
			Sodic Terrace 8-10"P.Z.	024XY022NV	24
			Alkali flat	028BY057NV	28B
			Clay Dune	028BY101NV	28B
			Sodic Dunes	028BY021NV	28B
			Sodic Flat 5-8"P.Z.	028BY020NV	28B
			Sodic Terrace 5-8"P.Z.	028BY074NV	28B
			Sodic Terrace 8-10"P.Z.	028BY028NV	28B
Limber Pine Woodland	B SA	10200	ABCOC-PIFL2-PILO WSG:4R0101	028BY049NV	28B
			ABCOC-PIFL2-PILO WSG:5R0101	028BY063NV	28B
			PILO-PIFL2	023BY107NV	28B
Low Sagebrush	PoO SA/ B SA	10790	Claypan12-16" P.Z.	025XY017NV	25
			Clay Seep	025XY047NV	25
			Clayey 12-14"P.Z.	025XY054NV, 028BY037NV	25, 28B
			Claypan10-12P.Z.	025XY018NV	25
			Cobbly Claypan 8-12"P.Z.	025XY022NV	25
			Clay Slope 8-12"P.Z.	025XY083NV	25
			Eroded Claypan 12-16"P.Z.	025XY051NV	25
			Mountain Ridge	025XY024NV	25
			Mountain Ridge 12-14"P.Z.	028BY034NV	28B
			Channery Hill (atypical)	024XY057NV	24
			Calcareous Claypan	028BY092NV	28B
			Cobbly Claypan12-14"P.Z.	028BY039NV	28B
			Mountain Ridge 12-14+"P.Z.	028BY034NV	28B
Mountain Ridge 14+"P.Z.	028BY038NV	28B			
Low Sagebrush Steppe	B SA	11240	Claypan 16+"P.Z.	025XY032NV	25
			Claypan14+" P.Z.	028BY036NV	28B
Mine-Active	PoO SA/ B SA	10060			
Mine-Inactive	PoO SA/ B SA	10061			
Mixed Salt Desert	PoO SA/ B SA	10810	Alkali Silt Flat	028BY097NV	28B
			Droughty Loam 5-8"P.Z.	024XY068NV	24
			Dunes 6-10"P.Z.	024XY001NV	24
			Gravelly Loam 5-8"P.Z.	024XY065NV	24
			Loamy 5-8"P.Z.	024XY002NV	24

TNC's Ecological System Name	Study Area	TNC Code	Ecological Site Name	Ecological Site Code	MLRA
			Loamy Slope 5-8"P.Z.	024XY025NV	24
			Saline Terrace 6-8"P.Z.	024XY012NV	24
			Sandy 5-8"P.Z. (atypical)	024XY055NV	24
			Shallow Silty 5-8" P.Z.	024XY067NV,0 28BY073NV	24, 28B
			Shallow Silty 8-10"P.Z.	024XY067NV,0 28BY009NV	24, 28B
			Coarse Gravelly Loam 6-8"P.Z.	028BY075NV	28B
			Saline Terrace 5-8"P.Z.	028BY047NV	28B
Moist Floodplain	PoO SA	11541	Saline Terrace 8-10"P.Z.	028BY065NV	28B
Montane Riparian	PoO SA/ B SA	11540	Moist Floodplain	025XY001NV, 028BY081NV	25, 28B
			POAN3 WSG:6W1410	025XY053NV	25
			POBAT WSG:6W1610	025XY074NV	25
			Stream Terrace	025XY062NV	25
			Streambank	025XY079NV	25
			Streambank 12+"P.Z.	028BY103NV	28B
Montane Sagebrush Steppe-subalpine	B SA	11261	Loamy Slope 16+P.Z.	025XY012NV	25
			Shallow Loam 16+"P.Z.	025XY076NV	25
			Calcareous Loam 16+P.Z."	028BY085NV	28B
			Loamy 16+P.Z.	028BY029NV	28B
			Loamy Slope 20+"P.Z.	028BY104NV	28B
			Shallow Loam 16+"P.Z.	025XY076NV	25
			Mountain Loam 16+P.Z.	028BY070NV	28B
Montane Sagebrush Steppe-upland	PoO SA/ B SA	11260	Calcareous Loam 14-16" P.Z.	028BY088NV	28B
			Clay Seep	025XY047NV	25
			Gravelly clay 12-14"P.Z.	028BY087NV	28B
			Gravelly Clay 14+P.Z.	08BY033NV	28B
			Loamy 12-14"P.Z.	024XY021NV,0 25XY027NV	24, 25
			Loamy 14-16"P.Z.	025XY056NV	25
			Loamy Fan 12-16"P.Z.	028BY082NV	28B
			Loamy slope 12-16"P.Z..	024XY032NV,0 25XY012NV	24, 25
			Pocket Meadow (atypical)	025XY063NV	25
			Shallow Loam 14-16"P.Z.	025XY042NV	25
			South Slope 12-14"P.Z.	025XY009NV	25
			South Slope 14-18"P.Z.	025XY016NV	25
			Steep North Slope (atypical)	025XY010NV	25
			Stony Loam 12-14"P.Z.	025XY082NV	25
			North Slope 14+P.Z.	024XY023NV	24
			Shallow Loam 10-14" P.Z.	028BY079NV	28B
			South Slope 12-16"P.Z.	024XY029NV	24
			Loamy 12-16"P.Z.	028BY030NV	28
			Loamy Slope 12-16"P.Z.	028BY015NV	28
Mountain Shrub	PoO SA/ B SA	11060	Bouldery Loam	025XY058NV	25

TNC's Ecological System Name	Study Area	TNC Code	Ecological Site Name	Ecological Site Code	MLRA
	PoO SA/ B SA		Ceanothus Thicket	025XY052NV	25
			Fractured Stony Loam 14+"P.Z.	025XY046NV, 028BY026NV	25, 28B
			Gravelly Claypan 12-16"P.Z.	025XY023NV	25
			Gravelly Loam 16+"P.Z.	025XY072NV	25
			Snowfield	025XY080NV	25
			Stony Loam14+"P.Z..	024XY034NV	24
			Gravelly Calcareous Loam 12-14" P.Z.	028BY096NV	28B
			Gravelly Calcareous Loam 14+P.Z.	028BY091NV	28B
			Gravelly Claypan 14+"P.Z.	028BY035NV	28B
			Gravelly Loam12-14"P.Z.	028BY046NV	28B
Pickleweed	PoO SA	11531			
Pinyon-Juniper Woodland	PoO SA/ B SA	10190	JUOS WSG:0X0404	028BY083NV	28B
			PIMO WSG:0R0601	028BY076NV	28B
			PIMO-CELE3 WSG:1R1101	028BY058NV	28B
			PIMO-JUOS WSG:0R0501	028BY062NV	28B
			PIMO-JUOS WSG:0R0502	028BY061NV	28B
			Shallow Calcareous Hill 14+"P.Z.	028BY090NV	28B
			PIMO-JUOS WSG:0R0503	028By064NV	28B
			PIMO-JUOS WSG:0R0504	028BY060NV	28B
Roads-Local	PoO SA/ B SA	10032			
Roads-Paved	PoO SA/ B SA	10031			
Saline Meadow	PoO SA/ B SA	11451	Saline Meadow	024XY009NV	24
			Sodic Floodplain	024XY010NV	24
			Wet Sodic Flat	024XY044NV	24
			Saline Meadow	028BY002NV	28B
			Wet Alkali Meadow	028BY099NV	28B
			Wet Clay Terrace	028BY031NV	28B
			Wet Saline Meadow	028BY012NV	28B
			Wet Sodic Bottom	028BY050NV	28B
Subalpine-Upper Montane Grassland	B SA	11400	Snowpocket	025XY028NV, 028BY051NV	25, 28B
			Subalpine Snowpocket	025XY077NV	25
Water	PoO SA/ B SA	10040			
Wet Meadow-bottomland	PoO SA/ B SA	11452	Wet Meadow 6-8" P.Z.	024XY043NV	24
			Wet Clay Basin	028BY098NV	28B
Wet Meadow-montane	PoO SA/ B SA	11450	Dry Meadow	025XY006NV	25
			Wet Meadow	025XY005NV	25

TNC's Ecological System Name	Study Area	TNC Code	Ecological Site Name	Ecological Site Code	MLRA
			Dry Meadow 6-10"P.Z.	028BY100NV	28B
			Dry Meadow 12-16"P.Z.	028BY095NV	28B
			Wet Meadow 10-14"P.Z.	028BY001NV	28B
			Wet Meadow14+P.Z.	028BY022NV	28B
Wetland	PoO SA/ B SA	11453	Wetland	028BY044NV	28B
Winterfat	PoO SA/ B SA	10812	Coarse silty 4-8"P.Z.	024XY014NV	24
			Silty 4-8"P.Z.	024XY004NV	24
			Silty 8-10"P.Z.	024XY059NV	24
			Coarse Silty 6-8"P.Z.	028BY084NV	28B
			Silty 5-8"P.Z.	028BY018NV	28B
			Silty 8-10"P.Z.	028BY013NV	28B
			Silty Clay 8-10" P.Z.	028BY071NV	28B

APPENDIX 3: Python resampling script for 1.5m to 60m raster resolution

A. Plan of Operations Study Area Reclassification

```
#-----
# Name:      Barrick_ImpactArea_ReclassRaw
# Purpose:   Reclassify raw System+Class raster.
# Author:    tanderson
# Modified:  January 2016
#-----

# Import ArcGIS modules
import arcpy
from arcpy import env
from arcpy.sa import *

# Make sure the Spatial Analyst extension is on
arcpy.CheckOutExtension("spatial")

# Set environment settings
env.workspace = r"K:\GIS3\Projects\Sage_Grouse\Geodata\Scripts\ReclassImpactArea"

Workspace = env.workspace
env.overwriteOutput = True
env.cellSize = 1.5
CellSize = env.cellSize

# Cast rasters and set local variables (casting rasters just identifies a file name as a raster)
orig_rast = arcpy.Raster("ia_bwbcomb309")
join_table = "ia_bwbcomb309.dbf"

# Create copy of raster with new name
arcpy.CopyRaster_management(orig_rast,"orig_copy")

# Add new field to raster
arcpy.AddField_management("orig_copy", "ORIG_NAME", "TEXT", "", "", 25, "", "", "", "")

# Copy values from field "CLASS_NAMES" TO "ORIG_NAME"
rows = arcpy.UpdateCursor("orig_copy")
for row in rows:
    temp_name = str(row.getValue('CLASS_NAMES'))
    expression = temp_name
    row.setValue("ORIG_NAME", expression)
    rows.updateRow(row)
del rows, row

# Create a new raster based on the "ORIG_NAME" field
```

```

orig_lu = arcpy.sa.Lookup("orig_copy", "ORIG_NAME")
orig_lu.save("orig_name")

# Delete rows with blank (e.g., "Blank_") or background (e.g., "Background") values
rows = arcpy.UpdateCursor("orig_name")
for row in rows:
    if row.ORIG_NAME == "Background":
        rows.deleteRow(row)
del rows, row

# Join raster with table holding new assignments for ecological systems and succession classes
arcpy.JoinField_management("orig_name", "ORIG_NAME", join_table, "ORIG_NAME",
["SYS_CODE", "SYS_NAME", "CLA_CODE", "CLA_NAME", "SYSXCLA"])

# Create raster with combination of new system and class information
sysxcla_lu = arcpy.sa.Lookup("orig_name", "SYSXCLA")
sysxcla_lu.save("sysxcla_lu")
arcpy.JoinField_management("sysxcla_lu", "VALUE", "orig_name", "SYSXCLA", ["SYS_NAME",
"SYS_CODE", "CLA_NAME", "CLA_CODE", "SYSXCLA"])
arcpy.CopyRaster_management("sysxcla_lu", "fnl_ImpactArea_SysxCla0421116.tif", "", "", "", "", "",
"32_BIT_UNSIGNED")

```

B. Resampling

```

#-----
# Name:      Barrick_ImpactArea_Resampling
# Purpose:   Resample land cover raster from 1.5-m to 60-m resolution, while prioritizing/preserving
select systems and classes.
# Author:    nwelch and tanderson
# Modified:  February 1, 2016
#-----

# Import ArcGIS modules
import arcpy
from arcpy import env
from arcpy.sa import *

# Make sure the Spatial Analyst extension is on
arcpy.CheckOutExtension("spatial")

# Set environment settings
env.workspace = r"K:\GIS3\Projects\Sage_Grouse\Geodata\Scripts\tempResampleIA"
Workspace = env.workspace
env.overwriteOutput = True

# Cast rasters and set local variables
orig_rast = arcpy.Raster("Fnl_IA_Distrib060116Copy.tif")
rule_table = "IA_Disturb_RANKS060216.dbf"

```

```
# Create and save a new raster based on the Ecological System x Vegetation Class field
orig_lu = arcpy.sa.Lookup(orig_rast, "SYSXCLA")
orig_lu.save("orig_lu")

# Join raster with table holding priority codes
arcpy.JoinField_management("orig_lu", "VALUE", rule_table, "SYSXCLA", ["PRIOR"])

# Create and save a new raster based on the priority code field
prior_lu = arcpy.sa.Lookup("orig_lu", "PRIOR")
prior_lu.save("prior_lu")

# Extract values with non-zero priority codes, execute block statistics (maximum) with 60-m window,
and resample at 60 m resolution
priorityExtract = ExtractByAttributes("prior_lu", "VALUE > 0")
priorityExtract.save("prior_extr")
nbr = NbrRectangle(40,40,"CELL")
priorityBlockStat = BlockStatistics("prior_extr", nbr, "MAXIMUM", "DATA")
priorityBlockStat.save("prior_blst")
arcpy.Resample_management("prior_blst", "prior_resamp", "60", "NEAREST")
arcpy.JoinField_management("prior_resamp", "Value", "orig_lu", "PRIOR", ["VALUE"])
prior_lu2 = arcpy.sa.Lookup("prior_resamp", "VALUE_1")
prior_lu2.save("prior_resamp2")

# Run Majority Filter on original raster w/o regard to PRIORITY codes, then resample at 60-m resolution
outMajFilt = MajorityFilter("orig_lu", "FOUR", "MAJORITY")
outMajFilt.save("orig_majfil")
arcpy.Resample_management("orig_majfil", "orig_resamp", "60", "NEAREST")

# Mosaic resampled rasters (order is important), join other fields, and extract with 60-m mask
arcpy.MosaicToNewRaster_management("prior_resamp2; orig_resamp", Workspace, "mosaic_60m", "",
"32_BIT_SIGNED", 60, 1, "FIRST", "")
arcpy.JoinField_management("mosaic_60m", "VALUE", orig_rast, "SYSXCLA", ["SYS_NAME",
"SYS_CODE", "CLA_NAME", "CLA_CODE", "SYSXCLA"])
arcpy.CopyRaster_management("mosaic_60m", "FnI_IADisturb_60m_060216.tif")
```

APPENDIX 4-A: Model Deterministic (Succession) Transitions

From Vegetation Type	From Class	To Class	Age Min	Age Max
Agriculture	U-A:Agriculture	U-A:Agriculture		
Agriculture	U-A:Pasture	U-A:Pasture		
Aspen Woodland	A:All	B:Closed		9
Aspen Woodland	B:Closed	C:Closed	10	39
Aspen Woodland	C:Closed	D:Open	40	99
Aspen Woodland	D:Open	D:Open	100	
Aspen Woodland	U-A:ASP->MSS	U-A:ASP->MSS		
Aspen Woodland	Aspen Woodland	U-C:Depleted	10	39
Aspen Woodland	U-C:Depleted	U-D:Depleted	40	99
Aspen Woodland	U-D:Depleted	U-D:Depleted	100	
Badland	A:Bare Ground	A:Bare Ground		
Badland	A:Sparse	A:Sparse		
Barren-Playa	A:Bare Ground	A:Bare Ground		
Barren-Rock-Mud	A:Bare Ground	A:Bare Ground		
Barren-Rock-Mud	U-A:Bare Ground	U-A:Bare Ground		
Basin Wildrye-bottomland	A:All	B:Closed		9
Basin Wildrye-bottomland	B:Closed	C:Open	10	74
Basin Wildrye-bottomland	C:Open	C:Open	75	
Basin Wildrye-bottomland	U-A:Annual Spp	U-A:Annual Spp		
Basin Wildrye-bottomland	U-A:Bare Ground	U-A:Bare Ground		
Basin Wildrye-bottomland	U-A:Early Shrub	U-B:Early Shrub		9
Basin Wildrye-bottomland	U-A:Exotic Forbs	U-A:Exotic Forbs		9
Basin Wildrye-bottomland	U-A:FoxtailBarley	U-B:FoxtailBarley		9
Basin Wildrye-bottomland	U-A:Pasture	U-A:Pasture		
Basin Wildrye-bottomland	U-A:SAP	U-B:SAP		9
Basin Wildrye-bottomland	U-A:Seeded Native	U-B:Seeded Native		9
Basin Wildrye-bottomland	U-A:SI	U-B:SI		9
Basin Wildrye-bottomland	U-A:SI+AS	U-B:SI+AS		9
Basin Wildrye-bottomland	U-B:Early Shrub	U-C:Early Shrub	10	74
Basin Wildrye-bottomland	U-B:Exotic Forbs	U-C:Exotic Forbs	10	74
Basin Wildrye-bottomland	U-B:FoxtailBarley	U-C:FoxtailBarley	10	74
Basin Wildrye-bottomland	U-B:SA	U-C:SA	10	74
Basin Wildrye-bottomland	U-B:SAP	U-C:SAP	10	74
Basin Wildrye-bottomland	U-B:Seeded Native	C:Open	10	74
Basin Wildrye-bottomland	U-B:SI	U-C:SI	10	74
Basin Wildrye-bottomland	U-B:SI+AS	U-C:SI+AS	10	74
Basin Wildrye-bottomland	U-C:Depleted	U-C:Depleted	75	
Basin Wildrye-bottomland	U-C:Early Shrub	U-C:Early Shrub	75	
Basin Wildrye-bottomland	U-C:Exotic Forbs	U-C:Exotic Forbs	75	
Basin Wildrye-bottomland	U-C:FoxtailBarley	U-C:FoxtailBarley	75	
Basin Wildrye-bottomland	U-C:SA	U-C:SA	75	
Basin Wildrye-bottomland	U-C:SAP	U-C:SAP	75	
Basin Wildrye-bottomland	U-C:SI	U-C:SI	75	

From Vegetation Type	From Class	To Class	Age Min	Age Max
Basin Wildrye-bottomland	U-C:SI+AS	U-C:SI+AS	75	
Basin Wildrye-montane	A:All	B:Closed		9
Basin Wildrye-montane	B:Closed	C:Open	10	74
Basin Wildrye-montane	C:Open	C:Open	75	
Basin Wildrye-montane	U-A:Annual Spp	U-A:Annual Spp		
Basin Wildrye-montane	U-A:Bare Ground	U-A:Bare Ground		
Basin Wildrye-montane	U-A:Early Shrub	U-B:Early Shrub		9
Basin Wildrye-montane	U-A:Exotic Forbs	U-A:Exotic Forbs		9
Basin Wildrye-montane	U-A:Pasture	U-A:Pasture		
Basin Wildrye-montane	U-A:SAP	U-B:SAP		9
Basin Wildrye-montane	U-A:Seeded Native	U-B:Seeded Native		9
Basin Wildrye-montane	U-A:SI	U-B:SI		9
Basin Wildrye-montane	U-A:SI+AS	U-B:SI+AS		9
Basin Wildrye-montane	U-B:Early Shrub	U-C:Early Shrub	10	74
Basin Wildrye-montane	U-B:Exotic Forbs	U-C:Exotic Forbs	10	74
Basin Wildrye-montane	U-B:SA	U-C:SA	10	74
Basin Wildrye-montane	U-B:SAP	U-C:SAP	10	74
Basin Wildrye-montane	U-B:Seeded Native	C:Open	10	74
Basin Wildrye-montane	U-B:SI	U-C:SI	10	74
Basin Wildrye-montane	U-B:SI+AS	U-C:SI+AS	10	74
Basin Wildrye-montane	U-C:Depleted	U-C:Depleted	75	
Basin Wildrye-montane	U-C:Early Shrub	U-C:Early Shrub	75	
Basin Wildrye-montane	U-C:Exotic Forbs	U-C:Exotic Forbs	75	
Basin Wildrye-montane	U-C:SA	U-C:SA	75	
Basin Wildrye-montane	U-C:SAP	U-C:SAP	75	
Basin Wildrye-montane	U-C:SI	U-C:SI	75	
Basin Wildrye-montane	U-C:SI+AS	U-C:SI+AS	75	
Basin Wildrye-montane	U-C:TEA	U-C:TEA	75	
Big Sagebrush-semidesert	A:All	B:Open		19
Big Sagebrush-semidesert	B:Open	C:Closed	20	39
Big Sagebrush-semidesert	C:Closed	C:Closed	40	
Big Sagebrush-semidesert	C:Dense	C:Dense	40	
Big Sagebrush-semidesert	U-A:Annual Spp	U-A:Annual Spp		
Big Sagebrush-semidesert	U-A:Bare Ground	U-A:Early Shrub		
Big Sagebrush-semidesert	U-A:Early Shrub	U-B:Early Shrub		19
Big Sagebrush-semidesert	U-A:Exotic Forbs	U-A:Exotic Forbs		19
Big Sagebrush-semidesert	U-A:SAP	U-B:SAP		19
Big Sagebrush-semidesert	U-A:Seeded Native	U-B:Seeded Native		19
Big Sagebrush-semidesert	U-A:SI	U-B:SI		19
Big Sagebrush-semidesert	U-A:SI+AS	U-B:SI+AS		19
Big Sagebrush-semidesert	U-B:Depleted	U-C:Depleted	20	39
Big Sagebrush-semidesert	U-B:Early Shrub	U-C:Early Shrub	20	39
Big Sagebrush-semidesert	U-B:Exotic Forbs	U-C:Exotic Forbs	20	39
Big Sagebrush-semidesert	U-B:SA	U-C:SA	20	39
Big Sagebrush-semidesert	U-B:SAP	U-C:SAP	20	39

From Vegetation Type	From Class	To Class	Age Min	Age Max
Big Sagebrush-semidesert	U-B:Seeded Native	C:Closed	20	39
Big Sagebrush-semidesert	U-B:SI	U-C:SI	20	39
Big Sagebrush-semidesert	U-B:SI+AS	U-C:SI+AS	20	39
Big Sagebrush-semidesert	U-C:Depleted	U-C:Depleted	40	
Big Sagebrush-semidesert	U-C:DP-Dense	U-C:DP-Dense	40	
Big Sagebrush-semidesert	U-C:Early Shrub	U-C:Early Shrub	40	
Big Sagebrush-semidesert	U-C:Exotic Forbs	U-C:Exotic Forbs	40	
Big Sagebrush-semidesert	U-C:SA	U-C:SA	40	
Big Sagebrush-semidesert	U-C:SA-Dense	U-C:SA-Dense	40	
Big Sagebrush-semidesert	U-C:SAP	U-C:SAP	40	
Big Sagebrush-semidesert	U-C:SAP-Dense	U-C:SAP-Dense	40	
Big Sagebrush-semidesert	U-C:SI	U-C:SI	40	
Big Sagebrush-semidesert	U-C:SI+AS	U-C:SI+AS	40	
Big Sagebrush-semidesert	U-C:SI+AS-Dense	U-C:SI+AS-Dense	40	
Big Sagebrush-semidesert	U-C:SI-Dense	U-C:SI-Dense	40	
Big Sagebrush-upland+trees	A:All	B:Open		19
Big Sagebrush-upland+trees	B:Open	C:Closed	20	39
Big Sagebrush-upland+trees	C:Closed	C:Closed	40	
Big Sagebrush-upland+trees	C:Dense	C:Dense	40	
Big Sagebrush-upland+trees	D:Dense	E:Closed	80	149
Big Sagebrush-upland+trees	D:Open	E:Closed	80	149
Big Sagebrush-upland+trees	E:Closed	E:Closed	150	
Big Sagebrush-upland+trees	U-A:Annual Spp	U-A:Annual Spp		
Big Sagebrush-upland+trees	U-A:Bare Ground	U-A:Bare Ground		
Big Sagebrush-upland+trees	U-A:Early Shrub	U-B:Early Shrub		19
Big Sagebrush-upland+trees	U-A:Exotic Forbs	U-A:Exotic Forbs		19
Big Sagebrush-upland+trees	U-A:Pasture	U-A:Pasture		
Big Sagebrush-upland+trees	U-A:SAP	U-B:SAP		19
Big Sagebrush-upland+trees	U-A:Seeded Native	U-B:Seeded Native		19
Big Sagebrush-upland+trees	U-A:SI	U-B:SI		19
Big Sagebrush-upland+trees	U-A:SI+AS	U-B:SI+AS		19
Big Sagebrush-upland+trees	U-A:Unpalat. Forb	U-B:Unpalat. Forb	0	19
Big Sagebrush-upland+trees	U-B:Depleted	U-C:Depleted	20	39
Big Sagebrush-upland+trees	U-B:Early Shrub	U-C:Early Shrub	20	39
Big Sagebrush-upland+trees	U-B:Exotic Forbs	U-C:Exotic Forbs	20	39
Big Sagebrush-upland+trees	U-B:SA	U-C:SA	20	39
Big Sagebrush-upland+trees	U-B:SAP	U-C:SAP	20	39
Big Sagebrush-upland+trees	U-B:Seeded Native	C:Closed	20	39
Big Sagebrush-upland+trees	U-B:SI	U-C:SI	20	39
Big Sagebrush-upland+trees	U-B:SI+AS	U-C:SI+AS	20	39
Big Sagebrush-upland+trees	U-B:Unpalat. Forb	U-C:Unpalat. Forb	20	39
Big Sagebrush-upland+trees	U-C:Depleted	U-C:Depleted	40	
Big Sagebrush-upland+trees	U-C:DP-Dense	U-C:DP-Dense	40	
Big Sagebrush-upland+trees	U-C:Early Shrub	U-C:Early Shrub	40	
Big Sagebrush-upland+trees	U-C:Exotic Forbs	U-C:Exotic Forbs	40	

From Vegetation Type	From Class	To Class	Age Min	Age Max
Big Sagebrush-upland+trees	U-C:SA	U-C:SA	40	
Big Sagebrush-upland+trees	U-C:SA-Dense	U-C:SA-Dense	40	
Big Sagebrush-upland+trees	U-C:SAP	U-C:SAP	40	
Big Sagebrush-upland+trees	U-C:SAP-Dense	U-C:SAP-Dense	40	
Big Sagebrush-upland+trees	U-C:SI	U-C:SI	40	
Big Sagebrush-upland+trees	U-C:SI+AS	U-C:SI+AS	40	
Big Sagebrush-upland+trees	U-C:SI+AS-Dense	U-C:SI+AS-Dense	40	
Big Sagebrush-upland+trees	U-C:SI-Dense	U-C:SI-Dense	40	
Big Sagebrush-upland+trees	U-C:Unpalat. Forb	U-C:Unpalat. Forb	40	
Big Sagebrush-upland+trees	U-D:Depleted	U-E:TEA	80	149
Big Sagebrush-upland+trees	U-D:DP-Dense	U-E:TEA	80	149
Big Sagebrush-upland+trees	U-D:SA	U-E:TEA	80	149
Big Sagebrush-upland+trees	U-D:SA-Dense	U-E:TEA	80	149
Big Sagebrush-upland+trees	U-D:SAP	U-E:TEA	80	149
Big Sagebrush-upland+trees	U-D:SAP-Dense	U-E:TEA	80	149
Big Sagebrush-upland+trees	U-D:SI	U-D:SI		
Big Sagebrush-upland+trees	U-D:SI+AS	U-D:SI+AS	80	149
Big Sagebrush-upland+trees	U-D:SI+AS-Dense	U-D:SI+AS-Dense	80	149
Big Sagebrush-upland+trees	U-D:SI-Dense	U-D:SI-Dense	80	149
Big Sagebrush-upland+trees	U-D:Unpalat. Forb	U-E:Unpalat. Forb	80	149
Big Sagebrush-upland+trees	U-E:TEA	U-E:TEA	150	
Big Sagebrush-upland+trees	U-E:Unpalat. Forb	U-E:Unpalat. Forb	150	
Black Sagebrush	A:All	B:Open		24
Black Sagebrush	B:Open	C:Closed	25	115
Black Sagebrush	C:Closed	C:Closed	120	
Black Sagebrush	D:Open	D:Open	121	
Black Sagebrush	U-A:Annual Spp	U-A:Annual Spp		24
Black Sagebrush	U-A:Bare Ground	U-A:Bare Ground		
Black Sagebrush	U-A:Early Shrub	U-B:Early Shrub		24
Black Sagebrush	U-A:Exotic Forbs	U-A:Exotic Forbs		24
Black Sagebrush	U-A:SAP	U-B:SAP		24
Black Sagebrush	U-A:Seeded Native	U-B:Seeded Native	0	24
Black Sagebrush	U-A:SI	U-B:SI		24
Black Sagebrush	U-A:SI+AS	U-B:SI+AS		24
Black Sagebrush	U-A:Unpalat. Forb	U-B:Unpalat. Forb	0	24
Black Sagebrush	U-B:Depleted	U-C:Depleted	25	119
Black Sagebrush	U-B:Early Shrub	U-C:Early Shrub	25	119
Black Sagebrush	U-B:Exotic Forbs	U-C:Exotic Forbs	25	119
Black Sagebrush	U-B:SA	U-C:SA	25	119
Black Sagebrush	U-B:SAP	U-C:SAP	25	119
Black Sagebrush	U-B:Seeded Native	C:Closed	25	119
Black Sagebrush	U-B:SI	U-C:SI	25	119
Black Sagebrush	U-B:SI+AS	U-C:SI+AS	25	119
Black Sagebrush	U-B:Unpalat. Forb	U-C:Unpalat. Forb	29	119
Black Sagebrush	U-C:Depleted	U-D:TEA	120	194

From Vegetation Type	From Class	To Class	Age Min	Age Max
Black Sagebrush	U-C:Early Shrub	U-C:Early Shrub	120	
Black Sagebrush	U-C:Exotic Forbs	U-C:Exotic Forbs	120	
Black Sagebrush	U-C:SA	U-C:SA	120	
Black Sagebrush	U-C:SAP	U-C:SAP	120	
Black Sagebrush	U-C:SI	U-C:SI	120	
Black Sagebrush	U-C:SI+AS	U-C:SI+AS	120	
Black Sagebrush	U-C:Unpalat. Forb	U-C:Unpalat. Forb	120	
Black Sagebrush	U-D:SI	U-D:SI	121	
Black Sagebrush	U-D:SI+AS	U-D:SI+AS	121	
Black Sagebrush	U-D:TEA	U-D:TEA	121	
Black Sagebrush	U-D:Unpalat. Forb	U-D:Unpalat. Forb	121	
Curl-leaf Mountain Mahogany	A:All	B:Open		19
Curl-leaf Mountain Mahogany	B:Open	C:Closed	20	59
Curl-leaf Mountain Mahogany	C:Closed	D:Open	60	159
Curl-leaf Mountain Mahogany	D:Closed	D:Closed	160	
Curl-leaf Mountain Mahogany	D:Open	D:Open	160	
Curl-leaf Mountain Mahogany	U-A:Annual Spp	U-A:Annual Spp		
Curl-leaf Mountain Mahogany	U-A:SAP	U-A:SAP		
Curl-leaf Mountain Mahogany	U-A:Unpalat. Forb	U-B:Unpalat. Forb	0	12
Curl-leaf Mountain Mahogany	U-B:SAP	U-B:SAP		
Curl-leaf Mountain Mahogany	U-B:Unpalat. Forb	U-C:Unpalat. Forb	13	29
Curl-leaf Mountain Mahogany	U-C:TEA	U-D:TEA	60	159
Curl-leaf Mountain Mahogany	U-C:Unpalat. Forb	U-C:Unpalat. Forb	30	
Curl-leaf Mountain Mahogany	U-D:TEA	U-D:TEA	160	
Curl-leaf Mountain Mahogany	U-D:Unpalat. Forb	U-D:Unpalat. Forb	160	
Desert Wash	A:All	B:Closed		4
Desert Wash	B:Closed	B:Closed	5	19
Desert Wash	U-A:Bare Ground	U-A:Bare Ground		
Desert Wash	U-A:Early Shrub	U-B:Early Shrub		4
Desert Wash	U-A:Exotic Forb&Tree	U-B:Exotic Forb&Tree		4
Desert Wash	U-A:SA	U-B:SA		4
Desert Wash	U-A:SAP	U-B:SAP	0	4
Desert Wash	U-B:Early Shrub	U-B:Early Shrub	5	
Desert Wash	U-B:Exotic Forb&Tree	U-B:Exotic Forb&Tree	5	
Desert Wash	U-B:SA	U-B:SA	5	
Desert Wash	U-B:SAP	U-B:SAP	5	
Developed-Town	U-A:Buildings	U-A:Buildings		
Four-Wing Saltbush	A:All	B:Open		4
Four-Wing Saltbush	B:Open	C:Closed	5	19
Four-Wing Saltbush	C:Closed	C:Closed	20	
Four-Wing Saltbush	U-A:Annual Spp	U-A:Annual Spp		
Four-Wing Saltbush	U-A:Bare Ground	U-A:Bare Ground		
Four-Wing Saltbush	U-A:Depleted	U-B:Depleted		4
Four-Wing Saltbush	U-A:Exotic Forbs	U-A:Exotic Forbs		4
Four-Wing Saltbush	U-A:Pasture	U-A:Pasture		

From Vegetation Type	From Class	To Class	Age Min	Age Max
Four-Wing Saltbush	U-A:SAP	U-B:SAP		4
Four-Wing Saltbush	U-A:Seeded Native	U-B:Seeded Native		4
Four-Wing Saltbush	U-B:Depleted	U-C:Depleted	5	19
Four-Wing Saltbush	U-B:Exotic Forbs	U-C:Exotic Forbs	5	19
Four-Wing Saltbush	U-B:SAP	U-C:SAP	5	19
Four-Wing Saltbush	U-B:Seeded Native	U-C:Seeded Native	5	19
Four-Wing Saltbush	U-C:Depleted	U-C:Depleted	20	
Four-Wing Saltbush	U-C:Exotic Forbs	U-C:Exotic Forbs	20	
Four-Wing Saltbush	U-C:SAP	U-C:SAP	20	
Four-Wing Saltbush	U-C:Seeded Native	U-C:Seeded Native	20	
Greasewood	A:All	B:Closed		4
Greasewood	B:Closed	B:Closed	5	
Greasewood	U-A:Annual Spp	U-A:Annual Spp		
Greasewood	U-A:Bare Ground	U-A:Bare Ground		
Greasewood	U-A:Exotic Forbs	U-A:Exotic Forbs		4
Greasewood	U-A:Pasture	U-A:Pasture		
Greasewood	U-A:SI	U-B:SI		4
Greasewood	U-A:SI+AS	U-B:SI+AS		4
Greasewood	U-B:Exotic Forbs	U-B:Exotic Forbs	5	
Greasewood	U-B:SAP	U-B:SAP	5	
Greasewood	U-B:SI	U-B:SI	5	
Greasewood	U-B:SI+AS	U-B:SI+AS	5	
Limber Pine Woodland	A:All	B:Open		99
Limber Pine Woodland	B:Open	C:Open	100	249
Limber Pine Woodland	C:Open	C:Open	250	
Low Sagebrush	A:All	B:Open		24
Low Sagebrush	B:Open	C:Closed	25	115
Low Sagebrush	C:Closed	C:Closed	120	
Low Sagebrush	D:Open	D:Open	121	
Low Sagebrush	U-A:Annual Spp	U-A:Annual Spp		24
Low Sagebrush	U-A:Bare Ground	U-A:Bare Ground		
Low Sagebrush	U-A:Early Shrub	U-B:Early Shrub		24
Low Sagebrush	U-A:Exotic Forbs	U-B:Exotic Forbs		24
Low Sagebrush	U-A:SAP	U-B:SAP		24
Low Sagebrush	U-A:Seeded Native	U-B:Seeded Native	0	24
Low Sagebrush	U-A:SI	U-B:SI		24
Low Sagebrush	U-A:SI+AS	U-B:SI+AS		24
Low Sagebrush	U-A:Unpalat. Forb	U-B:Unpalat. Forb	0	24
Low Sagebrush	U-B:Depleted	U-C:Depleted	25	119
Low Sagebrush	U-B:Early Shrub	U-C:Early Shrub	25	119
Low Sagebrush	U-B:Exotic Forbs	U-C:Exotic Forbs	25	119
Low Sagebrush	U-B:SA	U-C:SA	25	119
Low Sagebrush	U-B:SAP	U-C:SAP	25	119
Low Sagebrush	U-B:Seeded Native	C:Closed	25	119
Low Sagebrush	U-B:SI	U-C:SI	25	119

From Vegetation Type	From Class	To Class	Age Min	Age Max
Low Sagebrush	U-B:SI+AS	U-C:SI+AS	25	119
Low Sagebrush	U-B:Unpalat. Forb	U-C:Unpalat. Forb	29	119
Low Sagebrush	U-C:Depleted	U-D:TEA	120	194
Low Sagebrush	U-C:Early Shrub	U-C:Early Shrub	120	
Low Sagebrush	U-C:Exotic Forbs	U-C:Exotic Forbs	120	
Low Sagebrush	U-C:SA	U-C:SA	120	
Low Sagebrush	U-C:SAP	U-C:SAP	120	
Low Sagebrush	U-C:SI	U-C:SI	120	
Low Sagebrush	U-C:SI+AS	U-C:SI+AS	120	
Low Sagebrush	U-C:Unpalat. Forb	U-C:Unpalat. Forb	120	
Low Sagebrush	U-D:SI	U-D:SI	121	
Low Sagebrush	U-D:SI+AS	U-D:SI+AS	121	
Low Sagebrush	U-D:TEA	U-D:TEA	121	
Low Sagebrush	U-D:Unpalat. Forb	U-D:Unpalat. Forb	121	
Low Sagebrush Steppe	A:All	B:Open		24
Low Sagebrush Steppe	B:Open	C:Closed	25	115
Low Sagebrush Steppe	C:Closed	C:Closed	120	
Low Sagebrush Steppe	U-A:Bare Ground	U-A:Bare Ground		
Low Sagebrush Steppe	U-A:Early Shrub	U-B:Early Shrub		24
Low Sagebrush Steppe	U-A:Unpalat. Forb	U-B:Unpalat. Forb	0	24
Low Sagebrush Steppe	U-B:Depleted	U-C:Depleted	25	119
Low Sagebrush Steppe	U-B:Early Shrub	U-C:Early Shrub	25	119
Low Sagebrush Steppe	U-B:Unpalat. Forb	U-C:Unpalat. Forb	29	119
Low Sagebrush Steppe	U-C:Depleted	U-C:Depleted	120	
Low Sagebrush Steppe	U-C:Early Shrub	U-C:Early Shrub	120	
Low Sagebrush Steppe	U-C:Unpalat. Forb	U-C:Unpalat. Forb	125	
Low Sagebrush Steppe	U-D:TEA	U-D:TEA	195	
Mine-Active	U-A:Bare Ground	U-A:Bare Ground		
Mine-Active	U-A:Buildings	U-A:Buildings		
Mine-Inactive	U-A:Bare Ground	U-A:Bare Ground		
Mine-Inactive	U-A:Buildings	U-A:Buildings		
Mixed Salt Desert	A:All	B:Open		5
Mixed Salt Desert	B:Open	B:Open	6	
Mixed Salt Desert	C:Open	B:Open	6	59
Mixed Salt Desert	U-A:Annual Spp	U-A:Annual Spp		
Mixed Salt Desert	U-A:Bare Ground	U-A:Bare Ground		
Mixed Salt Desert	U-A:Depleted	U-B:Depleted		5
Mixed Salt Desert	U-A:Exotic Forbs	U-A:Exotic Forbs		5
Mixed Salt Desert	U-A:SAP	U-B:SAP		5
Mixed Salt Desert	U-A:Seeded Native	U-B:Seeded Native		5
Mixed Salt Desert	U-A:SI	U-B:SI		5
Mixed Salt Desert	U-A:SI+AS	U-B:SI+AS		5
Mixed Salt Desert	U-B:Depleted	U-B:Depleted	6	
Mixed Salt Desert	U-B:Exotic Forbs	U-B:Exotic Forbs	6	
Mixed Salt Desert	U-B:SA	U-B:SA	6	

From Vegetation Type	From Class	To Class	Age Min	Age Max
Mixed Salt Desert	U-B:SAP	U-B:SAP	6	
Mixed Salt Desert	U-B:Seeded Native	U-B:Seeded Native	6	
Mixed Salt Desert	U-B:SI	U-B:SI	6	
Mixed Salt Desert	U-B:SI+AS	U-B:SI+AS	6	
Moist Floodplain	A-Cottonwood:Closed	B-Cottonwood:Closed		5
Moist Floodplain	A-Willow:Closed	B-Willow:Closed		5
Moist Floodplain	B-Cottonwood:Closed	C-Cottonwood:Closed	6	19
Moist Floodplain	B-Willow:Closed	C-Willow:Closed	6	19
Moist Floodplain	C-Cottonwood:Closed	C-Cottonwood:Closed	20	
Moist Floodplain	C-Willow:Closed	C-Willow:Closed	20	
Moist Floodplain	PointBar:Bare Ground	PointBar:Bare Ground		
Moist Floodplain	U-A:Annual Spp	U-A:Annual Spp		
Moist Floodplain	U-A:Desertified	U-B:Desertified		9
Moist Floodplain	U-A:Early Shrub	U-B:Early Shrub		9
Moist Floodplain	U-A:Exotic Forb&Tree	U-B:Exotic Forb&Tree		5
Moist Floodplain	U-A:FoxtailBarley	U-B:FoxtailBarley		9
Moist Floodplain	U-A:Incised-EFT	U-B:Incised-EFT		9
Moist Floodplain	U-A:Pasture	U-A:Pasture		
Moist Floodplain	U-A:Shrb-Frb Encr	U-B:Shrb-Frb Encr		5
Moist Floodplain	U-B:Desertified	U-C:Desertified	10	74
Moist Floodplain	U-B:Early Shrub	U-C:Early Shrub	10	74
Moist Floodplain	U-B:Exotic Forb&Tree	U-C:Exotic Forb&Tree	6	19
Moist Floodplain	U-B:FoxtailBarley	U-C:FoxtailBarley	10	19
Moist Floodplain	U-B:Incised-EFT	U-C:Incised-EFT	10	74
Moist Floodplain	U-B:SAP	U-C:SAP	10	74
Moist Floodplain	U-B:Shrb-Frb Encr	U-C:Shrb-Frb Encr	6	19
Moist Floodplain	U-C:Desertified	U-C:Desertified	75	
Moist Floodplain	U-C:Early Shrub	U-C:Early Shrub	75	
Moist Floodplain	U-C:Exotic Forb&Tree	U-C:Exotic Forb&Tree	20	
Moist Floodplain	U-C:FoxtailBarley	U-C:FoxtailBarley	20	
Moist Floodplain	U-C:Incised-EFT	U-C:Incised-EFT	75	
Moist Floodplain	U-C:SAP	U-C:SAP	75	
Moist Floodplain	U-C:Shrb-Frb Encr	U-C:Shrb-Frb Encr	20	
Montane Riparian	A-Cottonwood:Closed	B-Cottonwood:Closed		5
Montane Riparian	A-Willow:Closed	B-Willow:Closed		4
Montane Riparian	B-Cottonwood:Closed	C-Cottonwood:Closed	6	19
Montane Riparian	B-Willow:Closed	C-Willow:Closed	5	19
Montane Riparian	C-Cottonwood:Closed	C-Cottonwood:Closed	20	
Montane Riparian	C-Willow:Closed	C-Willow:Closed	20	

From Vegetation Type	From Class	To Class	Age Min	Age Max
Montane Riparian	PointBar:Bare Ground	PointBar:Bare Ground		
Montane Riparian	U-A:Annual Spp	U-A:Annual Spp		
Montane Riparian	U-A:Desertified	U-B:Desertified		9
Montane Riparian	U-A:Early Shrub	U-B:Early Shrub		9
Montane Riparian	U-A:Exotic Forb&Tree	U-B:Exotic Forb&Tree		4
Montane Riparian	U-A:Hummocked	U-A:Hummocked		
Montane Riparian	U-A:Incised-EFT	U-B:Incised-EFT		9
Montane Riparian	U-A:Inset	U-B:Inset		4
Montane Riparian	U-A:Inset-EFT	U-B:Inset-EFT		4
Montane Riparian	U-A:Inset-HU	U-A:Inset-HU		
Montane Riparian	U-A:Inset-SFE	U-B:Inset-SFE		4
Montane Riparian	U-A:Pasture	U-A:Pasture		
Montane Riparian	U-A:Shrb-Frb Encr	U-B:Shrb-Frb Encr		4
Montane Riparian	U-A:SI	U-B:SI		9
Montane Riparian	U-A:SI+AS	U-B:SI+AS		9
Montane Riparian	U-B:Desertified	U-C:Desertified	10	74
Montane Riparian	U-B:Early Shrub	U-C:Early Shrub	10	74
Montane Riparian	U-B:Exotic Forb&Tree	U-C:Exotic Forb&Tree	5	19
Montane Riparian	U-B:Incised-EFT	U-C:Incised-EFT	10	74
Montane Riparian	U-B:Inset	U-B:Inset	5	
Montane Riparian	U-B:Inset-EFT	U-B:Inset-EFT	5	
Montane Riparian	U-B:Inset-SFE	U-B:Inset-SFE	5	
Montane Riparian	U-B:SAP	U-C:SAP	10	74
Montane Riparian	U-B:Shrb-Frb Encr	U-B:Shrb-Frb Encr	5	
Montane Riparian	U-B:SI	U-C:SI	10	74
Montane Riparian	U-B:SI+AS	U-C:SI+AS	10	74
Montane Riparian	U-C:Desertified	U-C:Desertified	75	
Montane Riparian	U-C:Early Shrub	U-C:Early Shrub	75	
Montane Riparian	U-C:Exotic Forb&Tree	U-C:Exotic Forb&Tree	20	
Montane Riparian	U-C:Incised-EFT	U-C:Incised-EFT	75	
Montane Riparian	U-C:SAP	U-C:SAP	75	
Montane Riparian	U-C:Shrb-Frb Encr	U-C:Shrb-Frb Encr	20	
Montane Riparian	U-C:SI	U-C:SI	75	
Montane Riparian	U-C:SI+AS	U-C:SI+AS	75	
Montane Riparian	U-C:TEA	U-C:TEA	75	
Montane Sagebrush Steppe-Subalpine	A:All	B:Open		12
Montane Sagebrush Steppe-Subalpine	B:Open	C:Closed	13	29
Montane Sagebrush Steppe-Subalpine	C:Closed	C:Closed	30	
Montane Sagebrush Steppe-Subalpine	C:Dense	C:Dense	30	
Montane Sagebrush Steppe-Subalpine	D:Dense	E:Closed	75	149

From Vegetation Type	From Class	To Class	Age Min	Age Max
Montane Sagebrush Steppe-Subalpine	D:Open	E:Closed	75	149
Montane Sagebrush Steppe-Subalpine	E:Closed	E:Closed	150	
Montane Sagebrush Steppe-Subalpine	U-A:Annual Spp	U-A:Annual Spp		
Montane Sagebrush Steppe-Subalpine	U-A:Bare Ground	U-A:Bare Ground		
Montane Sagebrush Steppe-Subalpine	U-A:Early Shrub	U-B:Early Shrub		12
Montane Sagebrush Steppe-Subalpine	U-A:SAP	U-B:SAP		12
Montane Sagebrush Steppe-Subalpine	U-A:Seeded Native	U-B:Seeded Native		12
Montane Sagebrush Steppe-Subalpine	U-A:Unpalat. Forb	U-B:Unpalat. Forb	0	12
Montane Sagebrush Steppe-Subalpine	U-B:Depleted	U-C:Depleted	13	29
Montane Sagebrush Steppe-Subalpine	U-B:Early Shrub	U-C:Early Shrub	13	29
Montane Sagebrush Steppe-Subalpine	U-B:SAP	U-C:SAP	13	29
Montane Sagebrush Steppe-Subalpine	U-B:Seeded Native	C:Closed	13	29
Montane Sagebrush Steppe-Subalpine	U-B:Unpalat. Forb	U-C:Unpalat. Forb	13	29
Montane Sagebrush Steppe-Subalpine	U-C:Depleted	U-C:Depleted	30	
Montane Sagebrush Steppe-Subalpine	U-C:DP-Dense	U-C:DP-Dense	30	
Montane Sagebrush Steppe-Subalpine	U-C:Early Shrub	U-C:Early Shrub	30	
Montane Sagebrush Steppe-Subalpine	U-C:SAP	U-C:SAP	30	
Montane Sagebrush Steppe-Subalpine	U-C:SAP-Dense	U-C:SAP-Dense	30	
Montane Sagebrush Steppe-Subalpine	U-C:Unpalat. Forb	U-C:Unpalat. Forb	30	
Montane Sagebrush Steppe-Subalpine	U-D:Depleted	U-E:TEA	75	149
Montane Sagebrush Steppe-Subalpine	U-D:DP-Dense	U-E:TEA	75	149
Montane Sagebrush Steppe-Subalpine	U-D:SAP	U-E:TEA	75	149
Montane Sagebrush Steppe-Subalpine	U-D:SAP-Dense	U-E:TEA	75	149
Montane Sagebrush Steppe-Subalpine	U-D:Unpalat. Forb	U-E:Unpalat. Forb	75	149
Montane Sagebrush Steppe-Subalpine	U-E:TEA	U-E:TEA	150	

From Vegetation Type	From Class	To Class	Age Min	Age Max
Montane Sagebrush Steppe-Subalpine	U-E:Unpalat. Forb	U-E:Unpalat. Forb	150	
Montane Sagebrush Steppe-Upland	A:All	B:Open	0	12
Montane Sagebrush Steppe-Upland	B:Open	C:Closed	13	29
Montane Sagebrush Steppe-Upland	C:Closed	C:Closed	30	
Montane Sagebrush Steppe-Upland	C:Dense	C:Dense	30	
Montane Sagebrush Steppe-Upland	D:Dense	E:Closed	75	149
Montane Sagebrush Steppe-Upland	D:Open	E:Closed	75	149
Montane Sagebrush Steppe-Upland	E:Closed	E:Closed	150	
Montane Sagebrush Steppe-Upland	U-A:Annual Spp	U-A:Annual Spp		
Montane Sagebrush Steppe-Upland	U-A:Bare Ground	U-A:Bare Ground		
Montane Sagebrush Steppe-Upland	U-A:Early Shrub	U-B:Early Shrub		12
Montane Sagebrush Steppe-Upland	U-A:Exotic Forbs	U-A:Exotic Forbs		12
Montane Sagebrush Steppe-Upland	U-A:SAP	U-B:SAP		12
Montane Sagebrush Steppe-Upland	U-A:Seeded Native	U-B:Seeded Native		12
Montane Sagebrush Steppe-Upland	U-A:SI	U-B:SI		12
Montane Sagebrush Steppe-Upland	U-A:SI+AS	U-B:SI+AS		12
Montane Sagebrush Steppe-Upland	U-A:Unpalat. Forb	U-B:Unpalat. Forb	0	12
Montane Sagebrush Steppe-Upland	U-B:Depleted	U-C:Depleted	13	29
Montane Sagebrush Steppe-Upland	U-B:Early Shrub	U-C:Early Shrub	13	29
Montane Sagebrush Steppe-Upland	U-B:Exotic Forbs	U-C:Exotic Forbs	13	29
Montane Sagebrush Steppe-Upland	U-B:SA	U-C:SA	13	29
Montane Sagebrush Steppe-Upland	U-B:SAP	U-C:SAP	13	29
Montane Sagebrush Steppe-Upland	U-B:Seeded Native	C:Closed	13	29
Montane Sagebrush Steppe-Upland	U-B:SI	U-C:SI	13	29
Montane Sagebrush Steppe-Upland	U-B:SI+AS	U-C:SI+AS	13	29

From Vegetation Type	From Class	To Class	Age Min	Age Max
Montane Sagebrush Steppe-Upland	U-B:Unpalat. Forb	U-C:Unpalat. Forb	13	29
Montane Sagebrush Steppe-Upland	U-C:Depleted	U-C:Depleted	30	
Montane Sagebrush Steppe-Upland	U-C:DP-Dense	U-C:DP-Dense	30	
Montane Sagebrush Steppe-Upland	U-C:Early Shrub	U-C:Early Shrub	30	
Montane Sagebrush Steppe-Upland	U-C:Exotic Forbs	U-C:Exotic Forbs	30	
Montane Sagebrush Steppe-Upland	U-C:SA	U-C:SA	30	
Montane Sagebrush Steppe-Upland	U-C:SA-Dense	U-C:SA-Dense	30	
Montane Sagebrush Steppe-Upland	U-C:SAP	U-C:SAP	30	
Montane Sagebrush Steppe-Upland	U-C:SAP-Dense	U-C:SAP-Dense	30	
Montane Sagebrush Steppe-Upland	U-C:SI	U-C:SI	30	
Montane Sagebrush Steppe-Upland	U-C:SI+AS	U-C:SI+AS	30	
Montane Sagebrush Steppe-Upland	U-C:SI+AS-Dense	U-C:SI+AS-Dense	30	
Montane Sagebrush Steppe-Upland	U-C:SI-Dense	U-C:SI-Dense	30	
Montane Sagebrush Steppe-Upland	U-C:Unpalat. Forb	U-C:Unpalat. Forb	30	
Montane Sagebrush Steppe-Upland	U-D:Depleted	U-E:TEA	75	149
Montane Sagebrush Steppe-Upland	U-D:DP-Dense	U-E:TEA	75	149
Montane Sagebrush Steppe-Upland	U-D:SA	U-E:TEA	75	149
Montane Sagebrush Steppe-Upland	U-D:SA-Dense	U-E:TEA	75	149
Montane Sagebrush Steppe-Upland	U-D:SAP	U-E:TEA	75	149
Montane Sagebrush Steppe-Upland	U-D:SAP-Dense	U-E:TEA	75	149
Montane Sagebrush Steppe-Upland	U-D:SI	U-D:SI	75	149
Montane Sagebrush Steppe-Upland	U-D:SI+AS	U-D:SI+AS	75	149
Montane Sagebrush Steppe-Upland	U-D:SI+AS-Dense	U-D:SI+AS-Dense	75	149
Montane Sagebrush Steppe-Upland	U-D:SI-Dense	U-D:SI-Dense	75	149
Montane Sagebrush Steppe-Upland	U-D:Unpalat. Forb	U-E:Unpalat. Forb	75	149

From Vegetation Type	From Class	To Class	Age Min	Age Max
Montane Sagebrush Steppe-Upland	U-E:TEA	U-E:TEA	150	
Montane Sagebrush Steppe-Upland	U-E:Unpalat. Forb	U-E:Unpalat. Forb	150	
Mountain Shrub	A:All	B:Closed		4
Mountain Shrub	B:Closed	C:Open	5	19
Mountain Shrub	C:Open	C:Open	20	
Mountain Shrub	D:Open	D:Open	80	
Mountain Shrub	U-A:Bare Ground	U-A:Bare Ground		
Mountain Shrub	U-A:Early Shrub	U-B:Early Shrub		4
Mountain Shrub	U-A:Exotic Forbs	U-A:Exotic Forbs		4
Mountain Shrub	U-A:SAP	U-B:SAP		4
Mountain Shrub	U-A:SI	U-B:SI		4
Mountain Shrub	U-A:SI+AS	U-B:SI+AS		4
Mountain Shrub	U-A:Unpalat. Forb	U-B:Unpalat. Forb		4
Mountain Shrub	U-B:Depleted	U-C:Depleted	5	19
Mountain Shrub	U-B:Early Shrub	U-C:Early Shrub	5	19
Mountain Shrub	U-B:Exotic Forbs	U-C:Exotic Forbs	5	19
Mountain Shrub	U-B:SAP	U-C:SAP	5	19
Mountain Shrub	U-B:SI	U-C:SI	5	19
Mountain Shrub	U-B:SI+AS	U-C:SI+AS	5	19
Mountain Shrub	U-B:Unpalat. Forb	U-C:Unpalat. Forb	5	19
Mountain Shrub	U-C:Depleted	U-C:Depleted	20	
Mountain Shrub	U-C:Early Shrub	U-C:Early Shrub	20	
Mountain Shrub	U-C:Exotic Forbs	U-C:Exotic Forbs	20	79
Mountain Shrub	U-C:SAP	U-C:SAP	20	
Mountain Shrub	U-C:SI	U-C:SI	20	
Mountain Shrub	U-C:SI+AS	U-C:SI+AS	20	
Mountain Shrub	U-C:Unpalat. Forb	U-C:Unpalat. Forb	20	
Mountain Shrub	U-D:SI	U-D:SI	80	
Mountain Shrub	U-D:SI+AS	U-D:SI+AS	80	
Mountain Shrub	U-D:TEA	U-D:TEA	80	
Mountain Shrub	U-D:Unpalat. Forb	U-D:Unpalat. Forb	80	
Pickleweed	A:All	A:All		
Pinyon-Juniper Woodland	A:All	B:Open		9
Pinyon-Juniper Woodland	B:Open	C:Open	10	29
Pinyon-Juniper Woodland	C:Open	D:Open	30	99
Pinyon-Juniper Woodland	D:Open	D:Open	100	
Pinyon-Juniper Woodland	U-A:Annual Spp	U-A:Annual Spp		
Pinyon-Juniper Woodland	U-A:Exotic Forbs	U-A:Exotic Forbs		9
Pinyon-Juniper Woodland	U-A:SAP	U-B:SAP		9
Pinyon-Juniper Woodland	U-A:SI	U-B:SI		9
Pinyon-Juniper Woodland	U-A:SI+AS	U-B:SI+AS		9
Pinyon-Juniper Woodland	U-A:Unpalat. Forb	U-B:Unpalat. Forb		9
Pinyon-Juniper Woodland	U-B:Exotic Forbs	U-C:Exotic Forbs	10	29
Pinyon-Juniper Woodland	U-B:SAP	U-C:TEA	10	29

From Vegetation Type	From Class	To Class	Age Min	Age Max
Pinyon-Juniper Woodland	U-B:SI	U-B:SI	10	
Pinyon-Juniper Woodland	U-B:SI+AS	U-B:SI+AS	10	
Pinyon-Juniper Woodland	U-B:Unpalat. Forb	U-C:Unpalat. Forb	10	29
Pinyon-Juniper Woodland	U-C:Exotic Forbs	U-C:Exotic Forbs	30	99
Pinyon-Juniper Woodland	U-C:TEA	U-D:TEA	30	99
Pinyon-Juniper Woodland	U-C:Unpalat. Forb	U-D:Unpalat. Forb	30	99
Pinyon-Juniper Woodland	U-D:TEA	U-D:TEA	100	
Pinyon-Juniper Woodland	U-D:Unpalat. Forb	U-D:Unpalat. Forb	100	
Roads-Local	U-A:Bare Ground	U-A:Bare Ground		
Roads-Paved	U-A:Paved	U-A:Paved		
Saline Meadow	A:All	B:Closed		2
Saline Meadow	B:Closed	C:Open	3	22
Saline Meadow	C:Open	C:Open	23	
Saline Meadow	U-A:Annual Spp	U-A:Annual Spp		
Saline Meadow	U-A:Bare Ground	U-A:Bare Ground		
Saline Meadow	U-A:Exotic Forbs	U-A:Exotic Forbs		2
Saline Meadow	U-A:Hummocked	U-A:Hummocked		
Saline Meadow	U-A:SAP	U-B:SAP		2
Saline Meadow	U-B:Depleted	U-C:Depleted	3	22
Saline Meadow	U-B:Exotic Forbs	U-C:Exotic Forbs	3	22
Saline Meadow	U-B:SAP	U-C:SAP	3	22
Saline Meadow	U-C:Depleted	U-C:Depleted	23	
Saline Meadow	U-C:Exotic Forbs	U-C:Exotic Forbs	23	
Saline Meadow	U-C:SAP	U-C:SAP	23	
Semi-Desert Grassland	A:All	B:Closed		19
Semi-Desert Grassland	B:Closed	B:Closed	20	
Semi-Desert Grassland	U-A:Bare Ground	U-A:Bare Ground		
Semi-Desert Grassland	U-A:Early Shrub	U-B:Early Shrub		19
Semi-Desert Grassland	U-A:SAP	U-B:SAP		19
Semi-Desert Grassland	U-A:SI	U-B:SI		19
Semi-Desert Grassland	U-A:SI+AS	U-B:SI+AS		19
Semi-Desert Grassland	U-B:Depleted	U-B:Depleted	20	
Semi-Desert Grassland	U-B:Early Shrub	U-B:Early Shrub	20	
Semi-Desert Grassland	U-B:SAP	U-B:SAP	20	
Semi-Desert Grassland	U-B:SI	U-B:SI	20	
Semi-Desert Grassland	U-B:SI+AS	U-B:SI+AS	20	
Subalpine-Upper Montane Grassland	A:All	B:Closed		4
Subalpine-Upper Montane Grassland	B:Closed	C:Open	5	12
Subalpine-Upper Montane Grassland	C:Open	C:Open	13	
Subalpine-Upper Montane Grassland	U-A:Unpalat. Forb	U-B:Unpalat. Forb		4
Subalpine-Upper Montane Grassland	U-B:Unpalat. Forb	U-C:Unpalat. Forb	5	12

From Vegetation Type	From Class	To Class	Age Min	Age Max
Subalpine-Upper Montane Grassland	U-C:Unpalat. Forb	U-C:Unpalat. Forb	13	
Wet Meadow-Montane	A:All	B:Closed		2
Wet Meadow-Montane	B:Closed	B:Closed	3	
Wet Meadow-Montane	C:Open	C:Open	23	
Wet Meadow-Montane	U-A:Annual Spp	U-A:Annual Spp		
Wet Meadow-Montane	U-A:Bare Ground	U-A:Bare Ground		
Wet Meadow-Montane	U-A:Desertified	U-B:Desertified		9
Wet Meadow-Montane	U-A:Early Shrub	U-B:Early Shrub		9
Wet Meadow-Montane	U-A:Exotic Forbs	U-A:Exotic Forbs		2
Wet Meadow-Montane	U-A:Hummocked	U-A:Hummocked		
Wet Meadow-Montane	U-A:Incised-EFT	U-B:Incised-EFT		9
Wet Meadow-Montane	U-A:Pasture	U-A:Pasture		
Wet Meadow-Montane	U-A:SAP	U-B:SAP		9
Wet Meadow-Montane	U-A:Shrb-Frb Encr	U-B:Shrb-Frb Encr		2
Wet Meadow-Montane	U-A:SI	U-B:SI		9
Wet Meadow-Montane	U-A:SI+AS	U-B:SI+AS		9
Wet Meadow-Montane	U-A:Stock Tank	U-A:Stock Tank		
Wet Meadow-Montane	U-B:Depleted	U-C:Depleted	10	74
Wet Meadow-Montane	U-B:Desertified	U-C:Desertified	10	74
Wet Meadow-Montane	U-B:Early Shrub	U-C:Early Shrub	10	74
Wet Meadow-Montane	U-B:Exotic Forbs	U-C:Exotic Forbs	3	22
Wet Meadow-Montane	U-B:Incised-EFT	U-C:Incised-EFT	10	74
Wet Meadow-Montane	U-B:SAP	U-C:SAP	10	74
Wet Meadow-Montane	U-B:Shrb-Frb Encr	U-C:Shrb-Frb Encr	3	22
Wet Meadow-Montane	U-B:SI	U-C:SI	10	74
Wet Meadow-Montane	U-B:SI+AS	U-C:SI+AS	10	74
Wet Meadow-Montane	U-C:Depleted	U-C:Depleted	75	
Wet Meadow-Montane	U-C:Desertified	U-C:Desertified	75	
Wet Meadow-Montane	U-C:Early Shrub	U-C:Early Shrub	75	
Wet Meadow-Montane	U-C:Exotic Forbs	U-C:Exotic Forbs	23	
Wet Meadow-Montane	U-C:Incised-EFT	U-C:Incised-EFT	75	
Wet Meadow-Montane	U-C:SAP	U-C:SAP	75	
Wet Meadow-Montane	U-C:Shrb-Frb Encr	U-C:Shrb-Frb Encr	23	
Wet Meadow-Montane	U-C:SI	U-C:SI	75	
Wet Meadow-Montane	U-C:SI+AS	U-C:SI+AS	75	
Wetland	A:All	B:All	10	74
Wetland	A:Water	A:All		9
Wetland	B:All	B:All	75	
Wetland	U-A:Exotic Forb&Tree	U-B:Exotic Forb&Tree	10	74
Wetland	U-A:Hummocked	U-A:Hummocked		
Wetland	U-B:Exotic Forb&Tree	U-B:Exotic Forb&Tree	75	
Winterfat	A:All	B:Open		49
Winterfat	B:Open	C:Closed	50	149
Winterfat	C:Closed	C:Closed	150	

From Vegetation Type	From Class	To Class	Age Min	Age Max
Winterfat	U-A:Annual Spp	U-A:Annual Spp		
Winterfat	U-A:Bare Ground	U-A:Bare Ground		
Winterfat	U-A:Exotic Forbs	U-A:Exotic Forbs		49
Winterfat	U-A:SAP	U-B:SAP		49
Winterfat	U-A:Seeded Native	U-B:Seeded Native		49
Winterfat	U-A:SI	U-B:SI		49
Winterfat	U-A:SI+AS	U-B:SI+AS		49
Winterfat	U-B:Depleted	U-C:Depleted	50	149
Winterfat	U-B:Exotic Forbs	U-C:Exotic Forbs	50	149
Winterfat	U-B:SA	U-C:SA	50	149
Winterfat	U-B:SAP	U-C:SAP	50	149
Winterfat	U-B:Seeded Native	C:Closed	50	149
Winterfat	U-B:SI	U-C:SI	50	149
Winterfat	U-B:SI+AS	U-C:SI+AS	50	149
Winterfat	U-C:Depleted	U-C:Depleted	150	
Winterfat	U-C:Exotic Forbs	U-C:Exotic Forbs	150	
Winterfat	U-C:SA	U-C:SA	150	
Winterfat	U-C:SAP	U-C:SAP	150	
Winterfat	U-C:SI	U-C:SI	150	

APPENDIX 4-B: Model Probabilistic Transitions

From Vegetation Type	From Class	To Vegetation Type	To Class	Transition Type	Probability	Proportion	Age Min	Age Max	Age Shift	Age Reset	TST Min	TST Max
Aspen Woodland	A:All	A:All	A:All	Early-Spring-Cattle-Grazing-byYr	0.0354	0.9995	3			Yes		12
Aspen Woodland	A:All	A:All	A:All	Fall-Cattle-Grazing-byYr	0.0405	0.9995	3			Yes		12
Aspen Woodland	A:All	A:All	A:All	Fence&Water-Delivery	0.0100					No		11
Aspen Woodland	A:All	A:All	A:All	FeralHorse-Grazing	0.0220	0.9990				Yes		12
Aspen Woodland	A:All	A:All	A:All	Late-Spring-Cattle-Grazing-byYr	0.0354	0.9990	3			1 Yes		12
Aspen Woodland	A:All	A:All	A:All	NativeGrazing	0.0020					Yes		
Aspen Woodland	A:All	A:All	A:All	ReplacemntFire	0.0200	0.2000				Yes		
Aspen Woodland	A:All	A:All	A:All	Summer-Cattle-Grazing-byYr	0.0405	0.9995	3			Yes		12
Aspen Woodland	A:All	A:All	A:All	Wild-Horse-Grazing	0.0220	0.9990				Yes		12
Aspen Woodland	A:All	U-A:ASP->MSS	A:All	Early-Spring-Cattle-Grazing-byYr	0.0354	0.0005	3			No		12
Aspen Woodland	A:All	U-A:ASP->MSS	A:All	Fall-Cattle-Grazing-byYr	0.0405	0.0005	3			No		12
Aspen Woodland	A:All	U-A:ASP->MSS	A:All	FeralHorse-Grazing	0.0220	0.0010				Yes		12
Aspen Woodland	A:All	U-A:ASP->MSS	A:All	Late-Spring-Cattle-Grazing-byYr	0.0354	0.0005	3			1 No		12
Aspen Woodland	A:All	U-A:ASP->MSS	A:All	Summer-Cattle-Grazing-byYr	0.0405	0.0005	3			No		12
Aspen Woodland	A:All	U-A:ASP->MSS	A:All	Wild-Horse-Grazing	0.0220	0.0010				Yes		12
Aspen Woodland	B:Closed	U:B:Depleted	A:All	Late-Spring-Cattle-Grazing-byYr	0.0354	0.0005	3			1 Yes		12
Aspen Woodland	B:Closed	B:Closed	A:All	ReplacemntFire	0.0200	0.2000				Yes		
Aspen Woodland	B:Closed	B:Closed	B:Closed	Early-Spring-Cattle-Grazing-byYr	0.0354					No		12
Aspen Woodland	B:Closed	B:Closed	B:Closed	Fall-Cattle-Grazing-byYr	0.0405					No		12
Aspen Woodland	B:Closed	B:Closed	B:Closed	FeralHorse-Grazing	0.0220	0.9990				No		12
Aspen Woodland	B:Closed	B:Closed	B:Closed	Late-Spring-Cattle-Grazing-byYr	0.0354	0.9990	1 No			No		12
Aspen Woodland	B:Closed	B:Closed	B:Closed	Summer-Cattle-Grazing-byYr	0.0405	0.9995				No		12
Aspen Woodland	B:Closed	B:Closed	B:Closed	Wild-Horse-Grazing	0.0220	0.9990				No		12
Aspen Woodland	B:Closed	U:B:Depleted	B:Closed	FeralHorse-Grazing	0.0220	0.0010				No		12
Aspen Woodland	B:Closed	U:B:Depleted	U:B:Depleted	Late-Spring-Cattle-Grazing-byYr	0.0354	0.0005				1 No		12
Aspen Woodland	B:Closed	U:B:Depleted	U:B:Depleted	Summer-Cattle-Grazing-byYr	0.0405	0.0005				No		12
Aspen Woodland	B:Closed	U:B:Depleted	U:B:Depleted	Wild-Horse-Grazing	0.0220	0.0010				No		12
Aspen Woodland	C:Closed	C:Closed	A:All	Insect/Disease	0.0050	0.2000				Yes		
Aspen Woodland	C:Closed	C:Closed	A:All	ReplacemntFire	0.0200	0.5000				Yes		
Aspen Woodland	C:Closed	C:Closed	C:Closed	Early-Spring-Cattle-Grazing-byYr	0.0354					No		12
Aspen Woodland	C:Closed	C:Closed	C:Closed	Fall-Cattle-Grazing-byYr	0.0405					No		12
Aspen Woodland	C:Closed	C:Closed	C:Closed	FeralHorse-Grazing	0.0220	0.9990				No		12
Aspen Woodland	C:Closed	C:Closed	C:Closed	Insect/Disease	0.0050	0.8000	-1 No			No		12
Aspen Woodland	C:Closed	C:Closed	C:Closed	Late-Spring-Cattle-Grazing-byYr	0.0354	0.9990	1 No			No		12
Aspen Woodland	C:Closed	C:Closed	C:Closed	Summer-Cattle-Grazing-byYr	0.0405	0.9995				No		12
Aspen Woodland	C:Closed	C:Closed	C:Closed	Wild-Horse-Grazing	0.0220	0.9990				No		12
Aspen Woodland	C:Closed	U:B:Depleted	U:B:Depleted	Late-Spring-Cattle-Grazing-byYr	0.0354	0.0005				1 No		12
Aspen Woodland	C:Closed	U:C:Depleted	U:C:Depleted	FeralHorse-Grazing	0.0220	0.0010				No		12
Aspen Woodland	C:Closed	U:C:Depleted	U:C:Depleted	Summer-Cattle-Grazing-byYr	0.0405	0.0005				No		12
Aspen Woodland	C:Closed	U:C:Depleted	U:C:Depleted	Wild-Horse-Grazing	0.0220	0.0010				No		12
Aspen Woodland	D:Open	D:Open	A:All	Chainsaw-Thinning	0.0100					Yes		
Aspen Woodland	D:Open	D:Open	A:All	ReplacemntFire	0.0200	0.5000				Yes		
Aspen Woodland	D:Open	D:Open	A:All	Senescence	0.0100		150			Yes		
Aspen Woodland	D:Open	D:Open	C:Closed	Insect/Disease	0.0030					Yes		
Aspen Woodland	D:Open	D:Open	D:Open	Early-Spring-Cattle-Grazing-byYr	0.0354					No		12
Aspen Woodland	D:Open	D:Open	D:Open	Fall-Cattle-Grazing-byYr	0.0405					No		12
Aspen Woodland	D:Open	D:Open	D:Open	FeralHorse-Grazing	0.0220	0.9990				No		12
Aspen Woodland	D:Open	D:Open	D:Open	Late-Spring-Cattle-Grazing-byYr	0.0354	0.9990	1 No			No		12
Aspen Woodland	D:Open	D:Open	D:Open	WildFire	0.0020					No		12
Aspen Woodland	D:Open	D:Open	D:Open	Summer-Cattle-Grazing-byYr	0.0405	0.9995				No		12
Aspen Woodland	D:Open	D:Open	D:Open	Wild-Horse-Grazing	0.0220	0.9990				No		12
Aspen Woodland	D:Open	U:B:Depleted	U:B:Depleted	Late-Spring-Cattle-Grazing-byYr	0.0354	0.0005				1 No		12
Aspen Woodland	D:Open	U:D:Depleted	U:D:Depleted	FeralHorse-Grazing	0.0220	0.0010				No		12
Aspen Woodland	D:Open	U:D:Depleted	U:D:Depleted	Summer-Cattle-Grazing-byYr	0.0405	0.0005				No		12
Aspen Woodland	U:B:Depleted	U:D:Depleted	U:D:Depleted	Wild-Horse-Grazing	0.0220	0.0010				No		12
Aspen Woodland	U:B:Depleted	A:All	A:All	ReplacemntFire	0.0200	0.1900				Yes		9
Aspen Woodland	U:B:Depleted	B:Closed	B:Closed	Natural-Recovery	1.0000					Yes		
Aspen Woodland	U:B:Depleted	U:B:Depleted	U:B:Depleted	Fence&Water-Delivery	0.0100					No		11
Aspen Woodland	U:B:Depleted	U:C:Depleted	U:C:Depleted	Early-Spring-Cattle-Grazing-byYr	0.0354					No		12
Aspen Woodland	U:B:Depleted	U:C:Depleted	U:C:Depleted	Fall-Cattle-Grazing-byYr	0.0405					No		12
Aspen Woodland	U:B:Depleted	U:C:Depleted	U:C:Depleted	FeralHorse-Grazing	0.0220					No		12
Aspen Woodland	U:B:Depleted	U:C:Depleted	U:C:Depleted	Late-Spring-Cattle-Grazing-byYr	0.0354					1 No		12
Aspen Woodland	U:B:Depleted	U:C:Depleted	U:C:Depleted	Summer-Cattle-Grazing-byYr	0.0405					No		12
Aspen Woodland	U:B:Depleted	U:C:Depleted	U:C:Depleted	Wild-Horse-Grazing	0.0220					No		12
Aspen Woodland	U:B:Depleted	U:C:Depleted	U:C:Depleted	Wild-Horse-Grazing	0.0220					No		12
Aspen Woodland	U:C:Depleted	U:C:Depleted	U:C:Depleted	ReplacemntFire	0.0200	0.0100				Yes		
Aspen Woodland	U:C:Depleted	U:C:Depleted	A:All	Insect/Disease	0.0050	0.1000				Yes		
Aspen Woodland	U:C:Depleted	U:C:Depleted	A:All	ReplacemntFire	0.0200	0.8000				Yes		
Aspen Woodland	U:C:Depleted	U:C:Depleted	C:Closed	Natural-Recovery	1.0000					Yes		10
Aspen Woodland	U:C:Depleted	U:C:Depleted	U:C:Depleted	Early-Spring-Cattle-Grazing-byYr	0.0354					No		12
Aspen Woodland	U:C:Depleted	U:C:Depleted	U:C:Depleted	Fall-Cattle-Grazing-byYr	0.0405					No		11
Aspen Woodland	U:C:Depleted	U:C:Depleted	U:C:Depleted	Fence&Water-Delivery	0.0100					No		12
Aspen Woodland	U:C:Depleted	U:C:Depleted	U:C:Depleted	FeralHorse-Grazing	0.0220					No		12
Aspen Woodland	U:C:Depleted	U:C:Depleted	U:C:Depleted	Insect/Disease	0.0050	0.8000	-1 Yes			No		12
Aspen Woodland	U:C:Depleted	U:C:Depleted	U:C:Depleted	Late-Spring-Cattle-Grazing-byYr	0.0354					1 No		12
Aspen Woodland	U:C:Depleted	U:C:Depleted	U:C:Depleted	Summer-Cattle-Grazing-byYr	0.0405					No		12
Aspen Woodland	U:C:Depleted	U:C:Depleted	U:C:Depleted	Wild-Horse-Grazing	0.0220					No		12
Aspen Woodland	U:C:Depleted	U:C:Depleted	U:C:Depleted	Wild-Horse-Grazing	0.0220					No		12
Aspen Woodland	U:C:Depleted	U:C:Depleted	U:C:Depleted	Summer-Cattle-Grazing-byYr	0.0405					No		12
Aspen Woodland	U:D:Depleted	U:D:Depleted	U:D:Depleted	Late-Spring-Cattle-Grazing-byYr	0.0354					1 No		12
Aspen Woodland	U:D:Depleted	U:D:Depleted	U:D:Depleted	Summer-Cattle-Grazing-byYr	0.0405					No		12
Aspen Woodland	U:D:Depleted	U:D:Depleted	U:D:Depleted	Wild-Horse-Grazing	0.0220					No		12
Aspen Woodland	U:D:Depleted	U:D:Depleted	U:D:Depleted	Wild-Horse-Grazing	0.0220					No		12
Aspen Woodland	U:D:Depleted	U:D:Depleted	U:D:Depleted	Chainsaw-Thinning	0.0000	0.1000	5 Yes			Yes		
Aspen Woodland	U:D:Depleted	U:D:Depleted	U:D:Depleted	Chainsaw-Thinning	0.0000	0.1000	10 Yes			Yes		
Aspen Woodland	U:D:Depleted	U:D:Depleted	U:D:Depleted	Insect/Disease	0.0033	0.1000	10 Yes			Yes		
Aspen Woodland	U:D:Depleted	U:D:Depleted	U:D:Depleted	ReplacemntFire	0.0200	0.8000	40 Yes			Yes		
Aspen Woodland	U:D:Depleted	U:D:Depleted	U:D:Depleted	Natural-Recovery	1.0000					Yes		10
Aspen Woodland	U:D:Depleted	U:D:Depleted	U:D:Depleted	Early-Spring-Cattle-Grazing-byYr	0.0354					No		12
Aspen Woodland	U:D:Depleted	U:D:Depleted	U:D:Depleted	Fall-Cattle-Grazing-byYr	0.0405					No		11
Aspen Woodland	U:D:Depleted	U:D:Depleted	U:D:Depleted	Fence&Water-Delivery	0.0100					No		12
Aspen Woodland	U:D:Depleted	U:D:Depleted	U:D:Depleted	FeralHorse-Grazing	0.0220					No		12
Aspen Woodland	U:D:Depleted	U:D:Depleted	U:D:Depleted	Insect/Disease	0.0033	0.8000	-1 Yes			No		12
Aspen Woodland	U:D:Depleted	U:D:Depleted	U:D:Depleted	Late-Spring-Cattle-Grazing-byYr	0.0354					1 No		12
Aspen Woodland	U:D:Depleted	U:D:Depleted	U:D:Depleted	Summer-Cattle-Grazing-byYr	0.0405					No		12
Aspen Woodland	U:D:Depleted	U:D:Depleted	U:D:Depleted	Wild-Horse-Grazing	0.0220					No		12
Aspen Woodland	U:D:Depleted	U:D:Depleted	U:D:Depleted	Wild-Horse-Grazing	0.0220					No		12
Aspen Woodland	U:D:Depleted	U:D:Depleted	U:D:Depleted	Chainsaw-Thinning	0.0000	0.1000	5 Yes			Yes		
Aspen Woodland	U:D:Depleted	U:D:Depleted	U:D:Depleted	Chainsaw-Thinning	0.0000	0.1000	10 Yes			Yes		
Aspen Woodland	U:D:Depleted	U:D:Depleted	U:D:Depleted	Insect/Disease	0.0033	0.1000	10 Yes			Yes		
Aspen Woodland	U:D:Depleted	U:D:Depleted	U:D:Depleted	ReplacemntFire	0.0200	1.0000	250			Yes		
Aspen Woodland	U:D:Depleted	U:D:Depleted	U:D:Depleted	ReplacemntFire	0.0200	0.2000				Yes		
Basin Wildrye-bottomland	A:All	A:All	A:All	Early-Spring-Cattle-Grazing-byYr	0.0292	0.9995	3			No		
Basin Wildrye-bottomland	A:All	A:All	A:All	Fall-Cattle-Grazing-byYr	0.0333	0.9995	3			No		
Basin Wildrye-bottomland	A:All	A:All	A:All	FeralHorse-Grazing	0.0180	0.9990	2 No			No		
Basin Wildrye-bottomland	A:All	A:All	A:All	Flooding-100yr	0.0100					5 Yes		
Basin Wildrye-bottomland	A:All	A:All	A:All	Late-Spring-Cattle-Grazing-byYr	0.0292	0.9990	3			1 No		
Basin Wildrye-bottomland	A:All	A:All	A:All	ReplacemntFire	0.0200					Yes		
Basin Wildrye-bottomland	A:All	A:All	A:All	Summer-Cattle-Grazing-byYr	0.0333	0.9995	3			No		
Basin Wildrye-bottomland	A:All	A:All	A:All	Wild-Horse-Grazing	0.0180	0.9990	2 No			No		
Basin Wildrye-bottomland	A:All	U-A:Bare Ground	U-A:Bare Ground	Early-Spring-Cattle-Grazing-byYr	0.0292	0.0005	3			No		
Basin Wildrye-bottomland	A:All	U-A:Bare Ground	U-A:Bare Ground	Fall-Cattle-Grazing-byYr	0.0333	0.0005	3			No		
Basin Wildrye-bottomland	A:All	U-A:Bare Ground	U-A:Bare Ground	FeralHorse-Grazing	0.0180	0.0005				No		
Basin Wildrye-bottomland	A:All	U-A:Bare Ground	U-A:Bare Ground	Late-Spring-Cattle-Grazing-byYr	0.0292	0.0005	3			No		
Basin Wildrye-bottomland	A:All	U-A:Bare Ground	U-A:Bare Ground	Summer-Cattle-Grazing-byYr	0.0333	0.0005	3			No		
Basin Wildrye-bottomland	A:All	U-A:Bare Ground	U-A:Bare Ground	Wild-Horse-Grazing	0.0180	0.0005				No		
Basin Wildrye-bottomland	A:All	U-A:Early Shrub	U-A:Early Shrub	FeralHorse-Grazing	0.0180	0.0005				No		
Basin Wildrye-bottomland	A:All	U-A:Early Shrub	U-A:Early Shrub	Late-Spring-Cattle-Grazing-byYr	0.0292	0.0005	3			1 No		
Basin Wildrye-bottomland	A:All	U-A:Early Shrub	U-A:Early Shrub	Wild-Horse-Grazing	0.0180	0.0005				No		
Basin Wildrye-bottomland	A:All	U-A:Exotic Forbs	U-A:Exotic Forbs	Exotic-Invasion	0.0010		5			Yes		
Basin Wildrye-bottomland	B:Closed	B:Closed	A:All	Flooding-100yr	0.0100					5 Yes		
Basin Wildrye-bottomland	B:Closed											

Basin Wildlife-bottomland	B.Closed	B.Closed	Fall-Cattle-Grazing-byYr	0.0333	0.9995	No
Basin Wildlife-bottomland	B.Closed	B.Closed	FeralHorse-Grazing	0.0180	0.9990	2 No
Basin Wildlife-bottomland	B.Closed	B.Closed	Late-Spring-Cattle-Grazing-byYr	0.0292	0.9990	1 No
Basin Wildlife-bottomland	B.Closed	B.Closed	Severe Drought	0.0070	0.9000	Yes
Basin Wildlife-bottomland	B.Closed	B.Closed	Summer-Cattle-Grazing-byYr	0.0333	0.9995	No
Basin Wildlife-bottomland	B.Closed	B.Closed	Wild-Horse-Grazing	0.0180	0.9990	2 No
Basin Wildlife-bottomland	B.Closed	U-A Bare Ground	Early-Spring-Cattle-Grazing-byYr	0.0292	0.0005	No
Basin Wildlife-bottomland	B.Closed	U-A Bare Ground	Fall-Cattle-Grazing-byYr	0.0333	0.0005	No
Basin Wildlife-bottomland	B.Closed	U-A Bare Ground	FeralHorse-Grazing	0.0180	0.0005	No
Basin Wildlife-bottomland	B.Closed	U-A Bare Ground	Late-Spring-Cattle-Grazing-byYr	0.0292	0.0010	1 No
Basin Wildlife-bottomland	B.Closed	U-A Bare Ground	Summer-Cattle-Grazing-byYr	0.0333	0.0005	No
Basin Wildlife-bottomland	B.Closed	U-A Bare Ground	Wild-Horse-Grazing	0.0180	0.0005	No
Basin Wildlife-bottomland	B.Closed	U-A Early Shrub	FeralHorse-Grazing	0.0180	0.0005	No
Basin Wildlife-bottomland	B.Closed	U-A Early Shrub	Late-Spring-Cattle-Grazing-byYr	0.0292	0.0010	1 No
Basin Wildlife-bottomland	B.Closed	U-A Early Shrub	Wild-Horse-Grazing	0.0180	0.0005	No
Basin Wildlife-bottomland	B.Closed	U-B Exotic Forbs	Exotic Invasion	0.0010		Yes
Basin Wildlife-bottomland	B.Closed	U-B SAP	AS-Invasion	0.0010		No
Basin Wildlife-bottomland	C.Open	A.All	Flooding-100Yr	0.0100		5 Yes
Basin Wildlife-bottomland	C.Open	A.All	ReplacementFire	0.0150		Yes
Basin Wildlife-bottomland	C.Open	A.All	RfFire	0.0000		Yes
Basin Wildlife-bottomland	C.Open	B.Closed	Severe Drought	0.0070	0.1000	Yes
Basin Wildlife-bottomland	C.Open	C.Open	Early-Spring-Cattle-Grazing-byYr	0.0292	0.9995	No
Basin Wildlife-bottomland	C.Open	C.Open	Fall-Cattle-Grazing-byYr	0.0333	0.9995	No
Basin Wildlife-bottomland	C.Open	C.Open	FeralHorse-Grazing	0.0180	0.9990	2 No
Basin Wildlife-bottomland	C.Open	C.Open	Late-Spring-Cattle-Grazing-byYr	0.0292	0.9990	1 No
Basin Wildlife-bottomland	C.Open	C.Open	Severe Drought	0.0070	0.9000	Yes
Basin Wildlife-bottomland	C.Open	C.Open	Summer-Cattle-Grazing-byYr	0.0333	0.9995	No
Basin Wildlife-bottomland	C.Open	C.Open	Wild-Horse-Grazing	0.0180	0.9990	2 No
Basin Wildlife-bottomland	C.Open	U-A Bare Ground	Early-Spring-Cattle-Grazing-byYr	0.0292	0.0005	No
Basin Wildlife-bottomland	C.Open	U-A Bare Ground	Fall-Cattle-Grazing-byYr	0.0333	0.0005	No
Basin Wildlife-bottomland	C.Open	U-A Bare Ground	FeralHorse-Grazing	0.0180	0.0005	No
Basin Wildlife-bottomland	C.Open	U-A Bare Ground	Late-Spring-Cattle-Grazing-byYr	0.0292	0.0010	1 No
Basin Wildlife-bottomland	C.Open	U-A Bare Ground	Summer-Cattle-Grazing-byYr	0.0333	0.0005	No
Basin Wildlife-bottomland	C.Open	U-A Bare Ground	Wild-Horse-Grazing	0.0180	0.0005	No
Basin Wildlife-bottomland	C.Open	U-C Depleted	FeralHorse-Grazing	0.0180	0.0005	No
Basin Wildlife-bottomland	C.Open	U-C Depleted	Late-Spring-Cattle-Grazing-byYr	0.0292	0.0010	1 No
Basin Wildlife-bottomland	C.Open	U-C Depleted	Wild-Horse-Grazing	0.0180	0.0005	No
Basin Wildlife-bottomland	C.Open	U-C Exotic Forbs	Exotic Invasion	0.0010		Yes
Basin Wildlife-bottomland	C.Open	U-C SAP	AS-Invasion	0.0025		No
Basin Wildlife-bottomland	U-A Annual Spp	U-A Annual Spp	Early-Spring-Cattle-Grazing-byYr	0.0875		3 No
Basin Wildlife-bottomland	U-A Annual Spp	U-A Annual Spp	Fall-Cattle-Grazing-byYr	0.1000		3 No
Basin Wildlife-bottomland	U-A Annual Spp	U-A Annual Spp	FeralHorse-Grazing	0.0180		2 No
Basin Wildlife-bottomland	U-A Annual Spp	U-A Annual Spp	Herbicide-PlateauSeed	0.0000	0.2000	Yes
Basin Wildlife-bottomland	U-A Annual Spp	U-A Annual Spp	ReplacementFire	0.1000		Yes
Basin Wildlife-bottomland	U-A Annual Spp	U-A Annual Spp	Wild-Horse-Grazing	0.0180		2 No
Basin Wildlife-bottomland	U-A Annual Spp	U-A Exotic Forbs	Exotic Invasion	0.0010		Yes
Basin Wildlife-bottomland	U-A Annual Spp	U-A FoxtailBarley	Flooding-100Yr	0.0100		Yes
Basin Wildlife-bottomland	U-A Annual Spp	U-A Seeded Native	Herbicide-PlateauSeed	0.0000	0.8000	Yes
Basin Wildlife-bottomland	U-A Bare Ground	U-A Annual Spp	AS-Invasion	0.0050		No
Basin Wildlife-bottomland	U-A Early Shrub	U-A Exotic Forbs	Altern-Succession	0.0333		3 Yes
Basin Wildlife-bottomland	U-A Bare Ground	U-A Exotic Forbs	Exotic Invasion	0.0010		Yes
Basin Wildlife-bottomland	U-A Bare Ground	U-A FoxtailBarley	Flooding-100Yr	0.0100		Yes
Basin Wildlife-bottomland	U-A Early Shrub	U-A Early Shrub	MasticatedSlopePlateauNativeSeed	0.0000	0.1000	Yes
Basin Wildlife-bottomland	U-A Early Shrub	U-A Exotic Forbs	ReplacementFire	0.0000		Yes
Basin Wildlife-bottomland	U-A Early Shrub	U-A Exotic Forbs	Exotic Invasion	0.0010		Yes
Basin Wildlife-bottomland	U-A Early Shrub	U-A FoxtailBarley	MasticatedSlopePlateauNativeSeed	0.0000	0.1000	Yes
Basin Wildlife-bottomland	U-A Early Shrub	U-A Seeded Native	MasticatedSlopePlateauNativeSeed	0.0000	0.8000	Yes
Basin Wildlife-bottomland	U-A Exotic Forbs	A.All	Exotic Control	0.0010	0.5000	Yes
Basin Wildlife-bottomland	U-A Exotic Forbs	U-A Exotic Forbs	Early-Spring-Cattle-Grazing-byYr	0.0292		No
Basin Wildlife-bottomland	U-A Exotic Forbs	U-A Exotic Forbs	Exotic Control	0.0010	0.5000	Yes
Basin Wildlife-bottomland	U-A Exotic Forbs	U-A Exotic Forbs	Fall-Cattle-Grazing-byYr	0.0333		1 No
Basin Wildlife-bottomland	U-A Exotic Forbs	U-A Exotic Forbs	FeralHorse-Grazing	0.0180		2 No
Basin Wildlife-bottomland	U-A Exotic Forbs	U-A Exotic Forbs	Flooding-100Yr	0.0100		5 Yes
Basin Wildlife-bottomland	U-A Exotic Forbs	U-A Exotic Forbs	Late-Spring-Cattle-Grazing-byYr	0.0292		1 No
Basin Wildlife-bottomland	U-A Exotic Forbs	U-A Exotic Forbs	ReplacementFire	0.0200		Yes
Basin Wildlife-bottomland	U-A Exotic Forbs	U-A Exotic Forbs	Summer-Cattle-Grazing-byYr	0.0333		No
Basin Wildlife-bottomland	U-A Exotic Forbs	U-A Exotic Forbs	Wild-Horse-Grazing	0.0180		1 No
Basin Wildlife-bottomland	U-A Exotic Forbs	U-A Exotic Forbs	Exotic Invasion	0.0010		Yes
Basin Wildlife-bottomland	U-A FoxtailBarley	U-A FoxtailBarley	Flooding-100Yr	0.0100		Yes
Basin Wildlife-bottomland	U-A FoxtailBarley	U-A FoxtailBarley	ReplacementFire	0.0200		Yes
Basin Wildlife-bottomland	U-A Pasture	U-A Pasture	Early-Spring-Cattle-Grazing-byYr	0.0292		No
Basin Wildlife-bottomland	U-A Pasture	U-A Pasture	Fall-Cattle-Grazing-byYr	0.0333		No
Basin Wildlife-bottomland	U-A Pasture	U-A Pasture	FeralHorse-Grazing	0.0180		2 No
Basin Wildlife-bottomland	U-A Pasture	U-A Pasture	Late-Spring-Cattle-Grazing-byYr	0.0292		1 No
Basin Wildlife-bottomland	U-A Pasture	U-A Pasture	Summer-Cattle-Grazing-byYr	0.0333		No
Basin Wildlife-bottomland	U-A Pasture	U-A Pasture	Wild-Horse-Grazing	0.0180		2 No
Basin Wildlife-bottomland	U-A SAP	A.All	Herbicide-PlateauNative-Seed	0.0000	0.8000	Yes
Basin Wildlife-bottomland	U-A SAP	U-A Annual Spp	Early-Spring-Cattle-Grazing-byYr	0.0292	0.0005	3 No
Basin Wildlife-bottomland	U-A SAP	U-A Annual Spp	Fall-Cattle-Grazing-byYr	0.0333	0.0005	3 No
Basin Wildlife-bottomland	U-A SAP	U-A Annual Spp	FeralHorse-Grazing	0.0180	0.0010	No
Basin Wildlife-bottomland	U-A SAP	U-A Annual Spp	Late-Spring-Cattle-Grazing-byYr	0.0292	0.0010	3 No
Basin Wildlife-bottomland	U-A SAP	U-A Annual Spp	ReplacementFire	0.0400	0.5000	3 No
Basin Wildlife-bottomland	U-A SAP	U-A Annual Spp	Summer-Cattle-Grazing-byYr	0.0333	0.0005	3 No
Basin Wildlife-bottomland	U-A SAP	U-A Annual Spp	Wild-Horse-Grazing	0.0180	0.0010	No
Basin Wildlife-bottomland	U-A SAP	U-A Exotic Forbs	Exotic Invasion	0.0010		Yes
Basin Wildlife-bottomland	U-A SAP	U-A SAP	Early-Spring-Cattle-Grazing-byYr	0.0292	0.9995	3 No
Basin Wildlife-bottomland	U-A SAP	U-A SAP	Fall-Cattle-Grazing-byYr	0.0333	0.9995	3 No
Basin Wildlife-bottomland	U-A SAP	U-A SAP	FeralHorse-Grazing	0.0180	0.9990	2 No
Basin Wildlife-bottomland	U-A SAP	U-A SAP	Flooding-100Yr	0.0100		5 Yes
Basin Wildlife-bottomland	U-A SAP	U-A SAP	Herbicide-PlateauNative-Seed	0.0000	0.2000	Yes
Basin Wildlife-bottomland	U-A SAP	U-A SAP	Late-Spring-Cattle-Grazing-byYr	0.0292	0.9990	3 No
Basin Wildlife-bottomland	U-A SAP	U-A SAP	ReplacementFire	0.0400	0.5000	Yes
Basin Wildlife-bottomland	U-A SAP	U-A SAP	Summer-Cattle-Grazing-byYr	0.0333	0.9995	3 No
Basin Wildlife-bottomland	U-A SAP	U-A SAP	Wild-Horse-Grazing	0.0180	0.9990	2 No
Basin Wildlife-bottomland	U-A Seeded Native	A.All	NaturalRecovery	0.3300		No
Basin Wildlife-bottomland	U-A Seeded Native	U-A Bare Ground	Early-Spring-Cattle-Grazing-byYr	0.0292	0.0005	6 Yes
Basin Wildlife-bottomland	U-A Seeded Native	U-A Bare Ground	Fall-Cattle-Grazing-byYr	0.0333	0.0005	6 Yes
Basin Wildlife-bottomland	U-A Seeded Native	U-A Bare Ground	Late-Spring-Cattle-Grazing-byYr	0.0292	0.0005	6 Yes
Basin Wildlife-bottomland	U-A Seeded Native	U-A Bare Ground	Summer-Cattle-Grazing-byYr	0.0333	0.0005	6 Yes
Basin Wildlife-bottomland	U-A Seeded Native	U-A Early Shrub	Early-Spring-Cattle-Grazing-byYr	0.0292		5 Yes
Basin Wildlife-bottomland	U-A Seeded Native	U-A Early Shrub	Fall-Cattle-Grazing-byYr	0.0333		5 Yes
Basin Wildlife-bottomland	U-A Seeded Native	U-A Early Shrub	FeralHorse-Grazing	0.0180		5 Yes
Basin Wildlife-bottomland	U-A Seeded Native	U-A Early Shrub	Flooding-100Yr	0.0100		3 Yes
Basin Wildlife-bottomland	U-A Seeded Native	U-A Early Shrub	Late-Spring-Cattle-Grazing-byYr	0.0292	0.0005	6 Yes
Basin Wildlife-bottomland	U-A Seeded Native	U-A Early Shrub	Late-Spring-Cattle-Grazing-byYr	0.0292	0.0005	6 Yes
Basin Wildlife-bottomland	U-A Seeded Native	U-A Early Shrub	Severe Drought	0.0070		1 2 Yes
Basin Wildlife-bottomland	U-A Seeded Native	U-A Early Shrub	Severe Drought	0.0070	0.1000	3 Yes
Basin Wildlife-bottomland	U-A Seeded Native	U-A Early Shrub	Summer-Cattle-Grazing-byYr	0.0333		5 Yes
Basin Wildlife-bottomland	U-A Seeded Native	U-A Early Shrub	Wild-Horse-Grazing	0.0180		5 Yes
Basin Wildlife-bottomland	U-A Seeded Native	U-A Early Shrub	Wild-Horse-Grazing	0.0180	0.0010	6 Yes
Basin Wildlife-bottomland	U-A Seeded Native	U-A Exotic Forbs	Exotic Invasion	0.0010		No
Basin Wildlife-bottomland	U-A Seeded Native	U-A SAP	AS-Invasion	0.0050		No
Basin Wildlife-bottomland	U-A Seeded Native	U-A Seeded Native	Early-Spring-Cattle-Grazing-byYr	0.0292	0.9995	6 No
Basin Wildlife-bottomland	U-A Seeded Native	U-A Seeded Native	Fall-Cattle-Grazing-byYr	0.0333	0.9995	6 No
Basin Wildlife-bottomland	U-A Seeded Native	U-A Seeded Native	FeralHorse-Grazing	0.0180	0.9990	2 No
Basin Wildlife-bottomland	U-A Seeded Native	U-A Seeded Native	Flooding-100Yr	0.0100		5 Yes
Basin Wildlife-bottomland	U-A Seeded Native	U-A Seeded Native	Late-Spring-Cattle-Grazing-byYr	0.0292	0.9990	6 No
Basin Wildlife-bottomland	U-A Seeded Native	U-A Seeded Native	ReplacementFire	0.0050		Yes

Basin Wildrye-bottomland	U-A Seeded Native	U-A Seeded Native	Severe Drought	0.0070	0.9000	3	Yes
Basin Wildrye-bottomland	U-A Seeded Native	U-A Seeded Native	Summer Cattle-Grazing-byYr	0.0333	0.9995	6	No
Basin Wildrye-bottomland	U-A Seeded Native	U-A Seeded Native	Wild-Horse-Grazing	0.0180	0.9990	6	2 No
Basin Wildrye-bottomland	U-A SI	U-A Early Shrub	FeralHorse-Grazing	0.0180		2	2 No
Basin Wildrye-bottomland	U-A SI	U-A Early Shrub	Severe Drought	0.0070		2	Yes
Basin Wildrye-bottomland	U-A SI	U-A Early Shrub	Wild-Horse-Grazing	0.0180		2	2 No
Basin Wildrye-bottomland	U-A SI	U-A Exotic Forbs	Exotic-Invasion	0.0010			No
Basin Wildrye-bottomland	U-A SI	U-A SI	Early Spring-Cattle-Grazing-byYr	0.0292		3	No
Basin Wildrye-bottomland	U-A SI	U-A SI	Fall-Cattle-Grazing-byYr	0.0333		3	No
Basin Wildrye-bottomland	U-A SI	U-A SI	FeralHorse-Grazing	0.0180		3	2 No
Basin Wildrye-bottomland	U-A SI	U-A SI	Flooding-100yr	0.0100		5	Yes
Basin Wildrye-bottomland	U-A SI	U-A SI	Late-Spring-Cattle-Grazing-byYr	0.0292		3	1 No
Basin Wildrye-bottomland	U-A SI	U-A SI	ReplacemntFire	0.0010			Yes
Basin Wildrye-bottomland	U-A SI	U-A SI	Summer Cattle-Grazing-byYr	0.0333		3	No
Basin Wildrye-bottomland	U-A SI	U-A SI	Wild-Horse-Grazing	0.0180		3	2 No
Basin Wildrye-bottomland	U-A SI	U-A SHAS	AS-Invasion	0.0010			No
Basin Wildrye-bottomland	U-A SHAS	U-A Annual Spp	FeralHorse-Grazing	0.0180		3	Yes
Basin Wildrye-bottomland	U-A SHAS	U-A Annual Spp	Severe Drought	0.0070		2	Yes
Basin Wildrye-bottomland	U-A SHAS	U-A Annual Spp	Wild-Horse-Grazing	0.0180		3	Yes
Basin Wildrye-bottomland	U-A SHAS	U-A Exotic Forbs	Exotic-Invasion	0.0010			No
Basin Wildrye-bottomland	U-A SHAS	U-A SI	Competition	0.2000			No
Basin Wildrye-bottomland	U-A SHAS	U-A SI	Herbicide-PlateauSeed	0.0000	0.8000		3
Basin Wildrye-bottomland	U-A SHAS	U-A SHAS	Early Spring-Cattle-Grazing-byYr	0.0292		3	No
Basin Wildrye-bottomland	U-A SHAS	U-A SHAS	Fall-Cattle-Grazing-byYr	0.0333		3	No
Basin Wildrye-bottomland	U-A SHAS	U-A SHAS	FeralHorse-Grazing	0.0180		3	2 No
Basin Wildrye-bottomland	U-A SHAS	U-A SHAS	Flooding-100yr	0.0100		5	Yes
Basin Wildrye-bottomland	U-A SHAS	U-A SHAS	Herbicide-PlateauSeed	0.0000	0.2000		No
Basin Wildrye-bottomland	U-A SHAS	U-A SHAS	Late-Spring-Cattle-Grazing-byYr	0.0292		3	1 No
Basin Wildrye-bottomland	U-A SHAS	U-A SHAS	ReplacemntFire	0.0010			Yes
Basin Wildrye-bottomland	U-A SHAS	U-A SHAS	Summer Cattle-Grazing-byYr	0.0333		3	No
Basin Wildrye-bottomland	U-A SHAS	U-A SHAS	Wet-Year	0.0670			No
Basin Wildrye-bottomland	U-A SHAS	U-A SHAS	Wild-Horse-Grazing	0.0180		3	2 No
Basin Wildrye-bottomland	U-B Early Shrub	U-B Bare Ground	MasticatedSlopePlateauNativeSeed	0.0000	0.1000		Yes
Basin Wildrye-bottomland	U-B Early Shrub	U-B Early Shrub	MasticatedSlopePlateauNativeSeed	0.0000	0.1000		Yes
Basin Wildrye-bottomland	U-B Early Shrub	U-A Early Shrub	ReplacemntFire	0.0150			Yes
Basin Wildrye-bottomland	U-B Early Shrub	U-B Exotic Native	MasticatedSlopePlateauNativeSeed	0.0000	0.8000		Yes
Basin Wildrye-bottomland	U-B Early Shrub	U-B Exotic Forbs	Exotic-Invasion	0.0010			Yes
Basin Wildrye-bottomland	U-B Exotic Forbs	B:Closed	Exotic-Control	0.5000			20
Basin Wildrye-bottomland	U-B Exotic Forbs	U-A Annual Spp	ReplacemntFire	0.0200	0.2500		Yes
Basin Wildrye-bottomland	U-B Exotic Forbs	U-B Exotic Forbs	Flooding-100yr	0.0100		5	Yes
Basin Wildrye-bottomland	U-B Exotic Forbs	U-A Exotic Forbs	ReplacemntFire	0.0200	0.7500		Yes
Basin Wildrye-bottomland	U-B Exotic Forbs	U-B Exotic Forbs	Early Spring-Cattle-Grazing-byYr	0.0292			Yes
Basin Wildrye-bottomland	U-B Exotic Forbs	U-B Exotic Forbs	Exotic-Control	0.0100	0.5000		Yes
Basin Wildrye-bottomland	U-B Exotic Forbs	U-B Exotic Forbs	Fall-Cattle-Grazing-byYr	0.0333			No
Basin Wildrye-bottomland	U-B Exotic Forbs	U-B Exotic Forbs	FeralHorse-Grazing	0.0180			1 No
Basin Wildrye-bottomland	U-B Exotic Forbs	U-B Exotic Forbs	Late-Spring-Cattle-Grazing-byYr	0.0292			Yes
Basin Wildrye-bottomland	U-B Exotic Forbs	U-B Exotic Forbs	Summer Cattle-Grazing-byYr	0.0333			No
Basin Wildrye-bottomland	U-B Exotic Forbs	U-B Exotic Forbs	Wild-Horse-Grazing	0.0180			1 No
Basin Wildrye-bottomland	U-B FoxtailBarley	U-A FoxtailBarley	Flooding-100yr	0.0100			Yes
Basin Wildrye-bottomland	U-B FoxtailBarley	U-A FoxtailBarley	ReplacemntFire	0.0200			Yes
Basin Wildrye-bottomland	U-B FoxtailBarley	U-B Exotic Forbs	Exotic-Invasion	0.0010			Yes
Basin Wildrye-bottomland	U-B SA	U-A Annual Spp	Early Spring-Cattle-Grazing-byYr	0.0292	0.0005		Yes
Basin Wildrye-bottomland	U-B SA	U-A Annual Spp	Fall-Cattle-Grazing-byYr	0.0333	0.0005		Yes
Basin Wildrye-bottomland	U-B SA	U-A Annual Spp	FeralHorse-Grazing	0.0180	0.0010		Yes
Basin Wildrye-bottomland	U-B SA	U-A Annual Spp	ReplacemntFire	0.0250			Yes
Basin Wildrye-bottomland	U-B SA	U-A Annual Spp	Severe Drought	0.0070	0.1000		Yes
Basin Wildrye-bottomland	U-B SA	U-A Annual Spp	ThinSeed	0.0000	0.1000		Yes
Basin Wildrye-bottomland	U-B SA	U-A Annual Spp	Wild-Horse-Grazing	0.0010	0.0010		Yes
Basin Wildrye-bottomland	U-B SA	U-A SI	ThinSeed	0.0000	0.8000		Yes
Basin Wildrye-bottomland	U-B SA	U-A SHAS	ThinSeed	0.0000	0.1000		Yes
Basin Wildrye-bottomland	U-B SA	U-B FoxtailBarley	Flooding-100yr	0.0100			5
Basin Wildrye-bottomland	U-B SA	U-B SA	Early Spring-Cattle-Grazing-byYr	0.0292	0.9995		Yes
Basin Wildrye-bottomland	U-B SA	U-B SA	Fall-Cattle-Grazing-byYr	0.0333	0.9995		No
Basin Wildrye-bottomland	U-B SA	U-B SA	FeralHorse-Grazing	0.0180	0.9995		No
Basin Wildrye-bottomland	U-B SA	U-B SA	Severe Drought	0.0070	0.9000		Yes
Basin Wildrye-bottomland	U-B SA	U-B SA	Wild-Horse-Grazing	0.0180	0.9995		Yes
Basin Wildrye-bottomland	U-B SA	U-C Exotic Forbs	Exotic-Invasion	0.0010			Yes
Basin Wildrye-bottomland	U-B SAP	U-A Annual Spp	Early Spring-Cattle-Grazing-byYr	0.0292	0.0005		Yes
Basin Wildrye-bottomland	U-B SAP	U-A Annual Spp	Fall-Cattle-Grazing-byYr	0.0333	0.0005		Yes
Basin Wildrye-bottomland	U-B SAP	U-A Annual Spp	FeralHorse-Grazing	0.0180	0.0010		Yes
Basin Wildrye-bottomland	U-B SAP	U-A Annual Spp	Late-Spring-Cattle-Grazing-byYr	0.0292	0.0005		1 Yes
Basin Wildrye-bottomland	U-B SAP	U-A Annual Spp	ReplacemntFire	0.0250	0.5000		Yes
Basin Wildrye-bottomland	U-B SAP	U-A Annual Spp	Severe Drought	0.0070	0.0500		Yes
Basin Wildrye-bottomland	U-B SAP	U-A Annual Spp	Summer Cattle-Grazing-byYr	0.0333	0.0005		Yes
Basin Wildrye-bottomland	U-B SAP	U-A Annual Spp	Wild-Horse-Grazing	0.0180	0.0010		Yes
Basin Wildrye-bottomland	U-B SAP	U-A SAP	Flooding-100yr	0.0100			5
Basin Wildrye-bottomland	U-B SAP	U-A SAP	ReplacemntFire	0.0250	0.5000		Yes
Basin Wildrye-bottomland	U-B SAP	U-A SAP	Severe Drought	0.0070	0.0500		Yes
Basin Wildrye-bottomland	U-B SAP	U-A SAP	ThinSeed	0.0000	0.1000		Yes
Basin Wildrye-bottomland	U-B SAP	U-A SI	ThinSeed	0.0000	0.8000		Yes
Basin Wildrye-bottomland	U-B SAP	U-A SHAS	ThinSeed	0.0000	0.1000		Yes
Basin Wildrye-bottomland	U-B SAP	U-B Exotic Forbs	Exotic-Invasion	0.0010			Yes
Basin Wildrye-bottomland	U-B SAP	U-B SA	Late-Spring-Cattle-Grazing-byYr	0.0292	0.0005		1 Yes
Basin Wildrye-bottomland	U-B SAP	U-B SAP	Early Spring-Cattle-Grazing-byYr	0.0292	0.9995		No
Basin Wildrye-bottomland	U-B SAP	U-B SAP	Fall-Cattle-Grazing-byYr	0.0333	0.9995		No
Basin Wildrye-bottomland	U-B SAP	U-B SAP	FeralHorse-Grazing	0.0180	0.9990		2 No
Basin Wildrye-bottomland	U-B SAP	U-B SAP	Late-Spring-Cattle-Grazing-byYr	0.0292	0.9990		1 No
Basin Wildrye-bottomland	U-B SAP	U-B SAP	Severe Drought	0.0070	0.9000		Yes
Basin Wildrye-bottomland	U-B SAP	U-B SAP	Summer Cattle-Grazing-byYr	0.0333	0.9995		No
Basin Wildrye-bottomland	U-B SAP	U-B SAP	Wild-Horse-Grazing	0.0180	0.9990		2 No
Basin Wildrye-bottomland	U-B Seeded Native	B:Closed	NaturalRecovery	0.3000			No
Basin Wildrye-bottomland	U-B Seeded Native	U-A Bare Ground	Early Spring-Cattle-Grazing-byYr	0.0292	0.0005		Yes
Basin Wildrye-bottomland	U-B Seeded Native	U-B Bare Ground	Fall-Cattle-Grazing-byYr	0.0333	0.0005		Yes
Basin Wildrye-bottomland	U-B Seeded Native	U-A Bare Ground	FeralHorse-Grazing	0.0180	0.0005		Yes
Basin Wildrye-bottomland	U-B Seeded Native	U-A Bare Ground	Late-Spring-Cattle-Grazing-byYr	0.0292	0.0005		1 Yes
Basin Wildrye-bottomland	U-B Seeded Native	U-A Bare Ground	Summer Cattle-Grazing-byYr	0.0333	0.0005		Yes
Basin Wildrye-bottomland	U-B Seeded Native	U-A Bare Ground	Wild-Horse-Grazing	0.0180	0.0005		Yes
Basin Wildrye-bottomland	U-B Seeded Native	U-A Early Shrub	Severe Drought	0.0070	0.1000		Yes
Basin Wildrye-bottomland	U-B Seeded Native	U-A Exotic Forbs	Exotic-Invasion	0.0010			No
Basin Wildrye-bottomland	U-B Seeded Native	U-A SAP	AS-Invasion	0.0050			No
Basin Wildrye-bottomland	U-B Seeded Native	U-B Seeded Native	Flooding-100yr	0.0100			5
Basin Wildrye-bottomland	U-B Seeded Native	U-A Seeded Native	ReplacemntFire	0.0050			Yes
Basin Wildrye-bottomland	U-B Seeded Native	U-B Early Shrub	FeralHorse-Grazing	0.0180	0.0005		Yes
Basin Wildrye-bottomland	U-B Seeded Native	U-B Early Shrub	Late-Spring-Cattle-Grazing-byYr	0.0292	0.0005		1 Yes
Basin Wildrye-bottomland	U-B Seeded Native	U-B Early Shrub	Wild-Horse-Grazing	0.0180	0.0005		Yes
Basin Wildrye-bottomland	U-B Seeded Native	U-B Seeded Native	Early Spring-Cattle-Grazing-byYr	0.0292	0.9995		No
Basin Wildrye-bottomland	U-B Seeded Native	U-B Seeded Native	Fall-Cattle-Grazing-byYr	0.0333	0.9995		No
Basin Wildrye-bottomland	U-B Seeded Native	U-B Seeded Native	FeralHorse-Grazing	0.0180	0.9990		2 No
Basin Wildrye-bottomland	U-B Seeded Native	U-B Seeded Native	Late-Spring-Cattle-Grazing-byYr	0.0292	0.9990		1 No
Basin Wildrye-bottomland	U-B Seeded Native	U-B Seeded Native	Severe Drought	0.0070	0.9000		Yes
Basin Wildrye-bottomland	U-B Seeded Native	U-B Seeded Native	Summer Cattle-Grazing-byYr	0.0333	0.9995		No
Basin Wildrye-bottomland	U-B Seeded Native	U-B Seeded Native	Wild-Horse-Grazing	0.0180	0.9990		2 No
Basin Wildrye-bottomland	U-B SI	B:Closed	NaturalRecovery	0.0010			10
Basin Wildrye-bottomland	U-B SI	U-A Exotic Forbs	Exotic-Invasion	0.0010			No
Basin Wildrye-bottomland	U-B SI	U-A SI	Flooding-100yr	0.0100			5
Basin Wildrye-bottomland	U-B SI	U-A SI	ReplacemntFire	0.0010			Yes
Basin Wildrye-bottomland	U-B SI	U-B SI	Early Spring-Cattle-Grazing-byYr	0.0292			No
Basin Wildrye-bottomland	U-B SI	U-B SI	Fall-Cattle-Grazing-byYr	0.0333			No

Basin Wildfire-bottomland	U-B-SI	U-B-SI	FeralHorse-Grazing	0.0180		2	No
Basin Wildfire-bottomland	U-B-SI	U-B-SI	Late-Spring-Cattle-Grazing-byYr	0.0292			No
Basin Wildfire-bottomland	U-B-SI	U-B-SI	Summer-Cattle-Grazing-byYr	0.0333			No
Basin Wildfire-bottomland	U-B-SI	U-B-SI	Wild-Horse-Grazing	0.0180		2	No
Basin Wildfire-bottomland	U-B-SI	U-B-SHAS	AS-Invasion	0.0010		1	No
Basin Wildfire-bottomland	U-B-SHAS	U-A-SHAS	Flooding-100yr	0.0100		5	Yes
Basin Wildfire-bottomland	U-B-SHAS	U-A-SHAS	ReplacementFire	0.0020			Yes
Basin Wildfire-bottomland	U-B-SHAS	U-B-Exotic Forbs	Exotic-Invasion	0.0010			No
Basin Wildfire-bottomland	U-B-SHAS	U-B-SAP	Competition	0.3300			No
Basin Wildfire-bottomland	U-B-SHAS	U-B-SHAS	Early-Spring-Cattle-Grazing-byYr	0.0292			3
Basin Wildfire-bottomland	U-B-SHAS	U-B-SHAS	Fall-Cattle-Grazing-byYr	0.0333			No
Basin Wildfire-bottomland	U-B-SHAS	U-B-SHAS	FeralHorse-Grazing	0.0180		2	No
Basin Wildfire-bottomland	U-B-SHAS	U-B-SHAS	Late-Spring-Cattle-Grazing-byYr	0.0292		1	No
Basin Wildfire-bottomland	U-B-SHAS	U-B-SHAS	Summer-Cattle-Grazing-byYr	0.0333			No
Basin Wildfire-bottomland	U-B-SHAS	U-B-SHAS	Wet-Year	0.0670			No
Basin Wildfire-bottomland	U-B-SHAS	U-B-SHAS	Wild-Horse-Grazing	0.0180		2	No
Basin Wildfire-bottomland	U-C-Depleted	U-A-Bare Ground	Flooding-100yr	0.0100			Yes
Basin Wildfire-bottomland	U-C-Depleted	U-A-Bare Ground	Mow+Plateau+Native-Seed	0.0000	0.1500		Yes
Basin Wildfire-bottomland	U-C-Depleted	U-A-Early Shr ub	Mow+Plateau+Native-Seed	0.0000	0.1500		Yes
Basin Wildfire-bottomland	U-C-Depleted	U-A-Early Shr ub	ReplacementFire	0.0100			Yes
Basin Wildfire-bottomland	U-C-Depleted	U-A-Seeded Native	Mow+Plateau+Native-Seed	0.0000	0.7000		Yes
Basin Wildfire-bottomland	U-C-Depleted	U-C-Exotic Forbs	Exotic-Invasion	0.0010			Yes
Basin Wildfire-bottomland	U-C-Depleted	U-CSAP	AS-Invasion	0.0050			No
Basin Wildfire-bottomland	U-C-Early Shrub	U-A-Bare Ground	Mow+Plateau+Native-Seed	0.0000	0.1000		Yes
Basin Wildfire-bottomland	U-C-Early Shrub	U-A-Early Shrub	Mow+Plateau+Native-Seed	0.0000	0.1000		Yes
Basin Wildfire-bottomland	U-C-Early Shrub	U-A-Early Shrub	ReplacementFire	0.0350			Yes
Basin Wildfire-bottomland	U-C-Early Shrub	U-A-Seeded Native	Mow+Plateau+Native-Seed	0.0000	0.8000		Yes
Basin Wildfire-bottomland	U-C-Early Shrub	U-C-Exotic Forbs	Exotic-Invasion	0.0010			Yes
Basin Wildfire-bottomland	U-C-Exotic Forbs	C-Open	Exotic-Invason	0.0200	0.5000		20
Basin Wildfire-bottomland	U-C-Exotic Forbs	U-A-Annual Spp	ReplacementFire	0.0200	0.2500		Yes
Basin Wildfire-bottomland	U-C-Exotic Forbs	U-A-Exotic Forbs	Flooding-100yr	0.0100		5	Yes
Basin Wildfire-bottomland	U-C-Exotic Forbs	U-A-Exotic Forbs	ReplacementFire	0.0200	0.7500		Yes
Basin Wildfire-bottomland	U-C-Exotic Forbs	U-C-Exotic Forbs	Early-Spring-Cattle-Grazing-byYr	0.0292			No
Basin Wildfire-bottomland	U-C-Exotic Forbs	U-C-Exotic Forbs	Exotic-Invason	0.0100	0.5000		20
Basin Wildfire-bottomland	U-C-Exotic Forbs	U-C-Exotic Forbs	Fall-Cattle-Grazing-byYr	0.0333			No
Basin Wildfire-bottomland	U-C-Exotic Forbs	U-C-Exotic Forbs	FeralHorse-Grazing	0.0180		1	No
Basin Wildfire-bottomland	U-C-Exotic Forbs	U-C-Exotic Forbs	Late-Spring-Cattle-Grazing-byYr	0.0292		1	No
Basin Wildfire-bottomland	U-C-Exotic Forbs	U-C-Exotic Forbs	Summer-Cattle-Grazing-byYr	0.0333			No
Basin Wildfire-bottomland	U-C-Exotic Forbs	U-C-Exotic Forbs	Wild-Horse-Grazing	0.0180		1	No
Basin Wildfire-bottomland	U-C-FoxtailBarley	U-A-FoxtailBarley	Flooding-100yr	0.0100			Yes
Basin Wildfire-bottomland	U-C-FoxtailBarley	U-A-FoxtailBarley	ReplacementFire	0.0200			1
Basin Wildfire-bottomland	U-C-FoxtailBarley	U-C-Exotic Forbs	Exotic-Invasion	0.0010			Yes
Basin Wildfire-bottomland	U-CSA	U-A-Annual Spp	Early-Spring-Cattle-Grazing-byYr	0.0292	0.0005		Yes
Basin Wildfire-bottomland	U-CSA	U-A-Annual Spp	Fall-Cattle-Grazing-byYr	0.0333	0.0005		Yes
Basin Wildfire-bottomland	U-CSA	U-A-Annual Spp	FeralHorse-Grazing	0.0180	0.0010		Yes
Basin Wildfire-bottomland	U-CSA	U-A-Annual Spp	Mow+Plateau+Native-Seed	0.0000	0.1000		Yes
Basin Wildfire-bottomland	U-CSA	U-A-Annual Spp	ReplacementFire	0.0250			Yes
Basin Wildfire-bottomland	U-CSA	U-A-Annual Spp	ThinSeed	0.0000	0.1000		Yes
Basin Wildfire-bottomland	U-CSA	U-A-Annual Spp	Wild-Horse-Grazing	0.0180	0.0010		Yes
Basin Wildfire-bottomland	U-CSAP	U-A-SAP	Mow+Plateau+Native-Seed	0.0000	0.1000		Yes
Basin Wildfire-bottomland	U-CSA	U-A-Seeded Native	Mow+Plateau+Native-Seed	0.0000	0.8000		Yes
Basin Wildfire-bottomland	U-CSA	U-ASI	ThinSeed	0.0000	0.8000		Yes
Basin Wildfire-bottomland	U-CSA	U-A-SHAS	ThinSeed	0.0000	0.1000		Yes
Basin Wildfire-bottomland	U-CSA	U-BSA	Severe-Drought	0.0000	0.1000		Yes
Basin Wildfire-bottomland	U-CSA	U-C-Exotic Forbs	Exotic-Invasion	0.0010			Yes
Basin Wildfire-bottomland	U-CSA	U-C-FoxtailBarley	Flooding-100yr	0.0100		5	Yes
Basin Wildfire-bottomland	U-CSA	U-CSA	Early-Spring-Cattle-Grazing-byYr	0.0292	0.9995		No
Basin Wildfire-bottomland	U-CSA	U-CSA	Fall-Cattle-Grazing-byYr	0.0333	0.9995		No
Basin Wildfire-bottomland	U-CSA	U-CSA	FeralHorse-Grazing	0.0180	0.9990		No
Basin Wildfire-bottomland	U-CSA	U-CSA	Severe-Urought	0.0000	0.9000		Yes
Basin Wildfire-bottomland	U-CSA	U-CSA	Wild-Horse-Grazing	0.0180	0.9990		No
Basin Wildfire-bottomland	U-CSAP	U-A-Annual Spp	Early-Spring-Cattle-Grazing-byYr	0.0292	0.0005		Yes
Basin Wildfire-bottomland	U-CSAP	U-A-Annual Spp	Fall-Cattle-Grazing-byYr	0.0333	0.0005		Yes
Basin Wildfire-bottomland	U-CSAP	U-A-Annual Spp	FeralHorse-Grazing	0.0180	0.0005		Yes
Basin Wildfire-bottomland	U-CSAP	U-A-Annual Spp	Late-Spring-Cattle-Grazing-byYr	0.0292	0.0005		1
Basin Wildfire-bottomland	U-CSAP	U-A-Annual Spp	Mow+Plateau+Native-Seed	0.0000	0.1000		Yes
Basin Wildfire-bottomland	U-CSAP	U-A-Annual Spp	ReplacementFire	0.0250	0.5000		Yes
Basin Wildfire-bottomland	U-CSAP	U-A-Annual Spp	Summer-Cattle-Grazing-byYr	0.0333	0.0005		Yes
Basin Wildfire-bottomland	U-CSAP	U-A-Annual Spp	ThinSeed	0.0000	0.1000		Yes
Basin Wildfire-bottomland	U-CSAP	U-A-SAP	Flooding-100yr	0.0100		5	Yes
Basin Wildfire-bottomland	U-CSAP	U-A-SAP	Mow+Plateau+Native-Seed	0.0000	0.1000		Yes
Basin Wildfire-bottomland	U-CSAP	U-A-SAP	ReplacementFire	0.0250	0.5000		Yes
Basin Wildfire-bottomland	U-CSAP	U-A-Seeded Native	Mow+Plateau+Native-Seed	0.0000	0.8000		Yes
Basin Wildfire-bottomland	U-ASI	U-ASI	ThinSeed	0.0000	0.8000		Yes
Basin Wildfire-bottomland	U-ASI	U-A-SHAS	ThinSeed	0.0000	0.1000		Yes
Basin Wildfire-bottomland	U-BSAP	U-BSAP	Severe-Drought	0.0070	0.1000		Yes
Basin Wildfire-bottomland	U-CSAP	U-C-Exotic Forbs	Exotic-Invasion	0.0010			Yes
Basin Wildfire-bottomland	U-CSA	U-CSA	FeralHorse-Grazing	0.0180	0.0005		2
Basin Wildfire-bottomland	U-CSA	U-CSA	Late-Spring-Cattle-Grazing-byYr	0.0292	0.0005		1
Basin Wildfire-bottomland	U-CSA	U-CSA	Wild-Horse-Grazing	0.0180	0.0005		Yes
Basin Wildfire-bottomland	U-CSAP	U-CSAP	Wild-Horse-Grazing	0.0180	0.0005		2
Basin Wildfire-bottomland	U-CSAP	U-CSAP	Early-Spring-Cattle-Grazing-byYr	0.0292	0.9995		No
Basin Wildfire-bottomland	U-CSAP	U-CSAP	Fall-Cattle-Grazing-byYr	0.0333	0.9995		No
Basin Wildfire-bottomland	U-CSAP	U-CSAP	FeralHorse-Grazing	0.0180	0.9990		2
Basin Wildfire-bottomland	U-CSAP	U-CSAP	Late-Spring-Cattle-Grazing-byYr	0.0292	0.9990		1
Basin Wildfire-bottomland	U-CSAP	U-CSAP	Severe-Drought	0.0070	0.9000		Yes
Basin Wildfire-bottomland	U-CSAP	U-CSAP	Summer-Cattle-Grazing-byYr	0.0333	0.9995		No
Basin Wildfire-bottomland	U-CSAP	U-CSAP	Wild-Horse-Grazing	0.0180	0.9990		2
Basin Wildfire-bottomland	U-CSI	C-Open	NaturalRecovery	0.0010			10
Basin Wildfire-bottomland	U-CSI	U-ASI	Flooding-100yr	0.0100		5	Yes
Basin Wildfire-bottomland	U-CSI	U-A-SI	ReplacementFire	0.0010			Yes
Basin Wildfire-bottomland	U-CSI	U-C-Exotic Forbs	Exotic-Invasion	0.0010			No
Basin Wildfire-bottomland	U-CSI	U-CSI	Early-Spring-Cattle-Grazing-byYr	0.0292			No
Basin Wildfire-bottomland	U-CSI	U-CSI	Fall-Cattle-Grazing-byYr	0.0333			No
Basin Wildfire-bottomland	U-CSI	U-CSI	FeralHorse-Grazing	0.0180		2	No
Basin Wildfire-bottomland	U-CSI	U-CSI	Late-Spring-Cattle-Grazing-byYr	0.0292		1	No
Basin Wildfire-bottomland	U-CSI	U-CSI	Summer-Cattle-Grazing-byYr	0.0333			No
Basin Wildfire-bottomland	U-CSI	U-CSI	Wild-Horse-Grazing	0.0180		2	No
Basin Wildfire-bottomland	U-CSI	U-CSHAS	AS-Invasion	0.0010			No
Basin Wildfire-bottomland	U-CSHAS	U-A-SHAS	Flooding-100yr	0.0100		5	Yes
Basin Wildfire-bottomland	U-CSHAS	U-A-SHAS	ReplacementFire	0.0020			1
Basin Wildfire-bottomland	U-CSHAS	U-C-Exotic Forbs	Exotic-Invasion	0.0010			No
Basin Wildfire-bottomland	U-CSI	U-CSI	Competition	0.3300			3
Basin Wildfire-bottomland	U-CSHAS	U-CSHAS	Early-Spring-Cattle-Grazing-byYr	0.0292			No
Basin Wildfire-bottomland	U-CSHAS	U-CSHAS	Fall-Cattle-Grazing-byYr	0.0333			No
Basin Wildfire-bottomland	U-CSHAS	U-CSHAS	FeralHorse-Grazing	0.0180		2	No
Basin Wildfire-bottomland	U-CSHAS	U-CSHAS	Late-Spring-Cattle-Grazing-byYr	0.0292		1	No
Basin Wildfire-bottomland	U-CSHAS	U-CSHAS	Summer-Cattle-Grazing-byYr	0.0333			No
Basin Wildfire-bottomland	U-CSHAS	U-CSHAS	Wet-Year	0.0670			No
Basin Wildfire-bottomland	U-CSHAS	U-CSHAS	Wild-Horse-Grazing	0.0180		2	No
Basin Wildfire-m ontane	A-All	A-All	Early-Spring-Cattle-Grazing-byYr	0.0875	0.9995	3	No
Basin Wildfire-m ontane	A-All	A-All	Fall-Cattle-Grazing-byYr	0.1000	0.9995	3	No
Basin Wildfire-m ontane	A-All	A-All	FeralHorse-Grazing	0.0180	0.9990	2	No
Basin Wildfire-m ontane	A-All	A-All	Late-Spring-Cattle-Grazing-byYr	0.0875	0.9990	3	1
Basin Wildfire-m ontane	A-All	A-All	ReplacementFire	0.0200			Yes
Basin Wildfire-m ontane	A-All	A-All	Summer-Cattle-Grazing-byYr	0.1000	0.9995	3	No
Basin Wildfire-m ontane	A-All	A-All	WeedInventorySpot-Treat	0.0100			3
Basin Wildfire-m ontane	A-All	A-All	Wild-Horse-Grazing	0.0180	0.9990	2	No

Basin Wildrye-montane	A.All	U-A Bare Ground	Early Spring-Cattle-Grazing-byYr	0.0875	0.0005	3	No
Basin Wildrye-montane	A.All	U-A Bare Ground	Fall-Cattle-Grazing-byYr	0.1000	0.0005	3	No
Basin Wildrye-montane	A.All	U-A Bare Ground	FeralHorse-Grazing	0.0180	0.0005	No	No
Basin Wildrye-montane	A.All	U-A Bare Ground	Late-Spring-Cattle-Grazing-byYr	0.0875	0.0005	3	1 No
Basin Wildrye-montane	A.All	U-A Bare Ground	Summer-Cattle-Grazing-byYr	0.1000	0.0005	3	No
Basin Wildrye-montane	A.All	U-A Bare Ground	Wild-Horse-Grazing	0.0180	0.0005	No	No
Basin Wildrye-montane	A.All	U-A Early Shrub	FeralHorse-Grazing	0.0180	0.0005	No	No
Basin Wildrye-montane	A.All	U-A Early Shrub	Late-Spring-Cattle-Grazing-byYr	0.0875	0.0005	3	1 No
Basin Wildrye-montane	A.All	U-A Early Shrub	Wild-Horse-Grazing	0.0180	0.0005	No	No
Basin Wildrye-montane	A.All	U-A Exotic Forbs	Exotic-Invasion	0.0010	0.0010	5	Yes 5
Basin Wildrye-montane	B.Closed	A.All	ReplacementFire	0.0250			Yes
Basin Wildrye-montane	B.Closed	A.All	Severe-Drought	0.0070			5 Yes
Basin Wildrye-montane	B.Closed	B.Closed	Early Spring-Cattle-Grazing-byYr	0.0875	0.9995		No
Basin Wildrye-montane	B.Closed	B.Closed	Fall-Cattle-Grazing-byYr	0.1000	0.9995		No
Basin Wildrye-montane	B.Closed	B.Closed	FeralHorse-Grazing	0.0180	0.9990		2 No
Basin Wildrye-montane	B.Closed	B.Closed	Late-Spring-Cattle-Grazing-byYr	0.0875	0.9990		1 No
Basin Wildrye-montane	B.Closed	B.Closed	Summer-Cattle-Grazing-byYr	0.1000	0.9995		No
Basin Wildrye-montane	B.Closed	B.Closed	Weed-InventorySpot-Treat	0.0100			No 3
Basin Wildrye-montane	B.Closed	B.Closed	Wild-Horse-Grazing	0.0180	0.9990		2 No
Basin Wildrye-montane	B.Closed	U-A Bare Ground	Early Spring-Cattle-Grazing-byYr	0.0875	0.0005		No
Basin Wildrye-montane	B.Closed	U-A Bare Ground	Fall-Cattle-Grazing-byYr	0.1000	0.0005		No
Basin Wildrye-montane	B.Closed	U-A Bare Ground	FeralHorse-Grazing	0.0180	0.0005		No
Basin Wildrye-montane	B.Closed	U-A Bare Ground	Late-Spring-Cattle-Grazing-byYr	0.0875	0.0005		1 No
Basin Wildrye-montane	B.Closed	U-A Bare Ground	Summer-Cattle-Grazing-byYr	0.1000	0.0005		No
Basin Wildrye-montane	B.Closed	U-A Bare Ground	Wild-Horse-Grazing	0.0180	0.0005		No
Basin Wildrye-montane	B.Closed	U-A Early Shrub	FeralHorse-Grazing	0.0180	0.0005		No
Basin Wildrye-montane	B.Closed	U-A Early Shrub	Late-Spring-Cattle-Grazing-byYr	0.0875	0.0005		1 No
Basin Wildrye-montane	B.Closed	U-A Early Shrub	Wild-Horse-Grazing	0.0180	0.0005		No
Basin Wildrye-montane	B.Closed	U-A Exotic Forbs	Exotic-Invasion	0.0010			Yes 5
Basin Wildrye-montane	B.Closed	U-ESAP	AS-Invasion	0.0010			No
Basin Wildrye-montane	C.Open	A.All	ReplacementFire	0.0150			Yes
Basin Wildrye-montane	C.Open	C.Closed	Severe-Drought	0.0070	0.1000		Yes
Basin Wildrye-montane	C.Open	C.Open	Early Spring-Cattle-Grazing-byYr	0.0875	0.9995		No
Basin Wildrye-montane	C.Open	C.Open	Fall-Cattle-Grazing-byYr	0.1000	0.9995		No
Basin Wildrye-montane	C.Open	C.Open	FeralHorse-Grazing	0.0180	0.9990		2 No
Basin Wildrye-montane	C.Open	C.Open	Late-Spring-Cattle-Grazing-byYr	0.0875	0.9990		1 No
Basin Wildrye-montane	C.Open	C.Open	Severe-Drought	0.0070	0.9000		Yes
Basin Wildrye-montane	C.Open	C.Open	Summer-Cattle-Grazing-byYr	0.1000	0.9995		No
Basin Wildrye-montane	C.Open	C.Open	Weed-InventorySpot-Treat	0.0100			No 3
Basin Wildrye-montane	C.Open	C.Open	Wild-Horse-Grazing	0.0180	0.9990		2 No
Basin Wildrye-montane	C.Open	U-A Bare Ground	Early Spring-Cattle-Grazing-byYr	0.0875	0.0005		No
Basin Wildrye-montane	C.Open	U-A Bare Ground	Fall-Cattle-Grazing-byYr	0.1000	0.0005		No
Basin Wildrye-montane	C.Open	U-A Bare Ground	FeralHorse-Grazing	0.0180	0.0005		2 No
Basin Wildrye-montane	C.Open	U-A Bare Ground	Late-Spring-Cattle-Grazing-byYr	0.0875	0.0005		1 No
Basin Wildrye-montane	C.Open	U-A Bare Ground	Summer-Cattle-Grazing-byYr	0.1000	0.0005		No
Basin Wildrye-montane	C.Open	U-A Bare Ground	Wild-Horse-Grazing	0.0180	0.0005		2 No
Basin Wildrye-montane	C.Open	U-C Depleted	FeralHorse-Grazing	0.0180	0.0005		2 No
Basin Wildrye-montane	C.Open	U-C Depleted	Late-Spring-Cattle-Grazing-byYr	0.0875	0.0005		1 No
Basin Wildrye-montane	C.Open	U-C Depleted	Wild-Horse-Grazing	0.0180	0.0005		2 No
Basin Wildrye-montane	C.Open	U-C Exotic Forbs	Exotic-Invasion	0.0010			Yes 5
Basin Wildrye-montane	C.Open	U-CSAP	AS-Invasion	0.0025			No
Basin Wildrye-montane	C.Open	U-CTEA	Tree-Encroachment	0.0050			Yes
Basin Wildrye-montane	U-A Annual Spp	U-A Annual Spp	BLM-Post-Fire-Rabb	0.0100	0.6500	3	Yes 1
Basin Wildrye-montane	U-A Annual Spp	U-A Annual Spp	Early Spring-Cattle-Grazing-byYr	0.0875		3	No
Basin Wildrye-montane	U-A Annual Spp	U-A Annual Spp	Fall-Cattle-Grazing-byYr	0.1000		3	No
Basin Wildrye-montane	U-A Annual Spp	U-A Annual Spp	FeralHorse-Grazing	0.0180			2 No
Basin Wildrye-montane	U-A Annual Spp	U-A Annual Spp	Herbicide-PlateauSeed	0.0000	0.2000		Yes
Basin Wildrye-montane	U-A Annual Spp	U-A Annual Spp	ReplacementFire	0.0200			Yes 1
Basin Wildrye-montane	U-A Annual Spp	U-A Annual Spp	Weed-InventorySpot-Treat	0.0100			No 3
Basin Wildrye-montane	U-A Annual Spp	U-A Annual Spp	Wild-Horse-Grazing	0.0180			2 No
Basin Wildrye-montane	U-A Annual Spp	U-A Exotic Forbs	Exotic-Invasion	0.0010			Yes 5
Basin Wildrye-montane	U-A Seeded Native	U-A Seeded Native	Herbicide-PlateauSeed	0.0000	0.8000		Yes
Basin Wildrye-montane	U-A Annual Spp	U-ASI	BLM-Post-Fire-Rabb	0.0100	0.1750	3	Yes 1
Basin Wildrye-montane	U-A Annual Spp	U-ASHAS	BLM-Post-Fire-Rabb	0.0100	0.1750	3	Yes 1
Basin Wildrye-montane	U-A Bare Ground	U-A Annual Spp	AS-Invasion	0.0050			No
Basin Wildrye-montane	U-A Bare Ground	U-A Bare Ground	Weed-InventorySpot-Treat	0.0100			No 3
Basin Wildrye-montane	U-A Bare Ground	U-A Early Shrub	Alternate-Succession	0.0330		3	Yes 5
Basin Wildrye-montane	U-A Bare Ground	U-A Exotic Forbs	Exotic-Invasion	0.0010			Yes 5
Basin Wildrye-montane	U-A Early Shrub	U-A Early Shrub	ReplacementFire	0.0150			Yes
Basin Wildrye-montane	U-A Early Shrub	U-A Early Shrub	Spike-PlateauNative-Seed	0.0000	0.2000		Yes
Basin Wildrye-montane	U-A Early Shrub	U-A Early Shrub	Weed-InventorySpot-Treat	0.0100			No 3
Basin Wildrye-montane	U-A Early Shrub	U-A Exotic Forbs	Exotic-Invasion	0.0010			Yes 5
Basin Wildrye-montane	U-A Early Shrub	U-A Seeded Native	Spike-PlateauNative-Seed	0.0000	0.8000		Yes
Basin Wildrye-montane	U-A Exotic Forbs	A.All	Exotic-Control	0.0100	0.5000		Yes 20
Basin Wildrye-montane	U-A Exotic Forbs	U-A Exotic Forbs	Early Spring-Cattle-Grazing-byYr	0.0875			No
Basin Wildrye-montane	U-A Exotic Forbs	U-A Exotic Forbs	Exotic-Control	0.0100	0.5000		Yes 20
Basin Wildrye-montane	U-A Exotic Forbs	U-A Exotic Forbs	Fall-Cattle-Grazing-byYr	0.1000			No
Basin Wildrye-montane	U-A Exotic Forbs	U-A Exotic Forbs	FeralHorse-Grazing	0.0180			1 No
Basin Wildrye-montane	U-A Exotic Forbs	U-A Exotic Forbs	Late-Spring-Cattle-Grazing-byYr	0.0875			1 No
Basin Wildrye-montane	U-A Exotic Forbs	U-A Exotic Forbs	ReplacementFire	0.0200			Yes
Basin Wildrye-montane	U-A Exotic Forbs	U-A Exotic Forbs	Summer-Cattle-Grazing-byYr	0.1000			No
Basin Wildrye-montane	U-A Exotic Forbs	U-A Exotic Forbs	Wild-Horse-Grazing	0.0180			1 No
Basin Wildrye-montane	U-A Exotic Forbs	U-A Exotic Forbs	Early Spring-Cattle-Grazing-byYr	0.0875			No
Basin Wildrye-montane	U-A Pasture	U-A Pasture	Fall-Cattle-Grazing-byYr	0.1000			No
Basin Wildrye-montane	U-A Pasture	U-A Pasture	FeralHorse-Grazing	0.0180			2 No
Basin Wildrye-montane	U-A Pasture	U-A Pasture	Late-Spring-Cattle-Grazing-byYr	0.0875			1 No
Basin Wildrye-montane	U-A Pasture	U-A Pasture	Summer-Cattle-Grazing-byYr	0.1000			No
Basin Wildrye-montane	U-A Pasture	U-A Pasture	Wild-Horse-Grazing	0.0180			2 No
Basin Wildrye-montane	U-A SAP	A.All	Herbicide-PlateauNative-Seed	0.0000	0.8000		Yes
Basin Wildrye-montane	U-A SAP	U-A Annual Spp	Early Spring-Cattle-Grazing-byYr	0.0875	0.0005	3	No
Basin Wildrye-montane	U-A SAP	U-A Annual Spp	Fall-Cattle-Grazing-byYr	0.1000	0.0005	3	No
Basin Wildrye-montane	U-A SAP	U-A Annual Spp	FeralHorse-Grazing	0.0180	0.0010		No
Basin Wildrye-montane	U-A SAP	U-A Annual Spp	Late-Spring-Cattle-Grazing-byYr	0.0875	0.0010	3	1 No
Basin Wildrye-montane	U-A SAP	U-A Annual Spp	Summer-Cattle-Grazing-byYr	0.1000	0.0005	3	No
Basin Wildrye-montane	U-A SAP	U-A Annual Spp	Wild-Horse-Grazing	0.0180	0.0010		No
Basin Wildrye-montane	U-A SAP	U-A Exotic Forbs	Exotic-Invasion	0.0010			Yes 5
Basin Wildrye-montane	U-A SAP	U-ASAP	BLM-Post-Fire-Rabb	0.0100	0.6500	3	Yes 1
Basin Wildrye-montane	U-A SAP	U-ASAP	Early Spring-Cattle-Grazing-byYr	0.0875	0.9995	3	No
Basin Wildrye-montane	U-A SAP	U-ASAP	Fall-Cattle-Grazing-byYr	0.1000	0.9995	3	No
Basin Wildrye-montane	U-A SAP	U-ASAP	FeralHorse-Grazing	0.0180	0.9990		2 No
Basin Wildrye-montane	U-A SAP	U-ASAP	Herbicide-PlateauNative-Seed	0.0000	0.2000		Yes
Basin Wildrye-montane	U-A SAP	U-ASAP	Late-Spring-Cattle-Grazing-byYr	0.0875	0.9990	3	1 No
Basin Wildrye-montane	U-A SAP	U-ASAP	ReplacementFire	0.0200			Yes 1
Basin Wildrye-montane	U-A SAP	U-ASAP	Summer-Cattle-Grazing-byYr	0.1000	0.9995	3	No
Basin Wildrye-montane	U-A SAP	U-ASAP	Weed-InventorySpot-Treat	0.0100			No 3
Basin Wildrye-montane	U-A SAP	U-ASAP	Wild-Horse-Grazing	0.0180	0.9990		2 No
Basin Wildrye-montane	U-A SAP	U-ASI	BLM-Post-Fire-Rabb	0.0100	0.1750	3	Yes 1
Basin Wildrye-montane	U-A SAP	U-ASHAS	BLM-Post-Fire-Rabb	0.0100	0.1750	3	Yes 1
Basin Wildrye-montane	U-A Seeded Native	A.All	NatureRecovery	0.3300			No 5
Basin Wildrye-montane	U-A Seeded Native	U-A Bare Ground	Early Spring-Cattle-Grazing-byYr	0.0875	0.0005	6	Yes
Basin Wildrye-montane	U-A Seeded Native	U-A Bare Ground	Fall-Cattle-Grazing-byYr	0.1000	0.0005	6	Yes
Basin Wildrye-montane	U-A Seeded Native	U-A Bare Ground	FeralHorse-Grazing	0.0180	0.0010	6	Yes
Basin Wildrye-montane	U-A Seeded Native	U-A Bare Ground	Late-Spring-Cattle-Grazing-byYr	0.0875	0.0010	6	1 Yes
Basin Wildrye-montane	U-A Seeded Native	U-A Bare Ground	Summer-Cattle-Grazing-byYr	0.1000	0.0005	6	Yes
Basin Wildrye-montane	U-A Seeded Native	U-A Bare Ground	Wild-Horse-Grazing	0.0180	0.0010	6	Yes
Basin Wildrye-montane	U-A Seeded Native	U-A Early Shrub	Early Spring-Cattle-Grazing-byYr	0.0875		5	No
Basin Wildrye-montane	U-A Seeded Native	U-A Early Shrub	Fall-Cattle-Grazing-byYr	0.1000		5	No
Basin Wildrye-montane	U-A Seeded Native	U-A Early Shrub	FeralHorse-Grazing	0.0180		5	No

Basin Wildrye-montane	U-B Seeded Native	U-B Seeded Native	Severe Drought	0.0070	0.9000	Yes
Basin Wildrye-montane	U-B Seeded Native	U-B Seeded Native	Summer-Cattle-Grazing-byYr	0.1000	0.9995	No
Basin Wildrye-montane	U-B Seeded Native	U-B Seeded Native	Wild-Horse-Grazing	0.0180	0.9990	2 No
Basin Wildrye-montane	U-B SI	U-B Closed	Natural Recovery	0.0010		No
Basin Wildrye-montane	U-A SI	U-A SI	ReplacementFire	0.0010		Yes
Basin Wildrye-montane	U-B SI	U-B Exotic Forbs	Exotic Invasion	0.0010		No
Basin Wildrye-montane	U-B SI	U-B SI	Early Spring-Cattle-Grazing-byYr	0.0875		No
Basin Wildrye-montane	U-B SI	U-B SI	Fall-Cattle-Grazing-byYr	0.1000		No
Basin Wildrye-montane	U-B SI	U-B SI	FeralHorse-Grazing	0.0180		2 No
Basin Wildrye-montane	U-B SI	U-B SI	Late-Spring-Cattle-Grazing-byYr	0.0875		1 No
Basin Wildrye-montane	U-B SI	U-B SI	Summer-Cattle-Grazing-byYr	0.1000		No
Basin Wildrye-montane	U-B SI	U-B SI	Weed-InventoriesSpot-Treat	0.0100		No
Basin Wildrye-montane	U-B SI	U-B SI	Wild-Horse-Grazing	0.0180		2 No
Basin Wildrye-montane	U-B SI	U-B SI	AS-Invasion	0.0010		No
Basin Wildrye-montane	U-B SHAS	U-B SHAS	ReplacementFire	0.0020		Yes
Basin Wildrye-montane	U-B SHAS	U-B Exotic Forbs	Exotic Invasion	0.0010		1
Basin Wildrye-montane	U-B SHAS	U-B SI	Competition	0.0000		5
Basin Wildrye-montane	U-B SHAS	U-B SHAS	Early Spring-Cattle-Grazing-byYr	0.0875		No
Basin Wildrye-montane	U-B SHAS	U-B SHAS	Fall-Cattle-Grazing-byYr	0.1000		No
Basin Wildrye-montane	U-B SHAS	U-B SHAS	FeralHorse-Grazing	0.0180		2 No
Basin Wildrye-montane	U-B SHAS	U-B SHAS	Late-Spring-Cattle-Grazing-byYr	0.0875		1 No
Basin Wildrye-montane	U-B SHAS	U-B SHAS	Summer-Cattle-Grazing-byYr	0.1000		No
Basin Wildrye-montane	U-B SHAS	U-B SHAS	Weed-InventoriesSpot-Treat	0.0100		No
Basin Wildrye-montane	U-B SHAS	U-B SHAS	Web Year	0.0670		3
Basin Wildrye-montane	U-B SHAS	U-B SHAS	Wild-Horse-Grazing	0.0180		No
Basin Wildrye-montane	U-B SHAS	U-A Early Shrub	ReplacementFire	0.0100		2 No
Basin Wildrye-montane	U-C Depleted	U-A Early Shrub	Spike-PlateauNative-Seed	0.0000	0.3000	Yes
Basin Wildrye-montane	U-C Depleted	U-A Seeded Native	Spike-PlateauNative-Seed	0.0000	0.7000	Yes
Basin Wildrye-montane	U-C Depleted	U-B Early Shrub	Severe Drought	0.0070	0.1000	Yes
Basin Wildrye-montane	U-C Depleted	U-C Depleted	Severe Drought	0.0070	0.9000	Yes
Basin Wildrye-montane	U-C Depleted	U-C Depleted	Weed-InventoriesSpot-Treat	0.0100		No
Basin Wildrye-montane	U-C Depleted	U-C Exotic Forbs	Exotic Invasion	0.0010		5
Basin Wildrye-montane	U-C Depleted	U-C SA	AS-Invasion	0.0050		No
Basin Wildrye-montane	U-C Depleted	U-C TEA	Tree-Enroachment	0.0050		No
Basin Wildrye-montane	U-C Early Shrub	U-A Early Shrub	ReplacementFire	0.0150		Yes
Basin Wildrye-montane	U-C Early Shrub	U-A Early Shrub	Spike-PlateauNative-Seed	0.0000	0.2000	Yes
Basin Wildrye-montane	U-C Early Shrub	U-A Seeded Native	U-Seeded Native	0.0000	0.8000	Yes
Basin Wildrye-montane	U-C Early Shrub	U-C Early Shrub	Weed-InventoriesSpot-Treat	0.0100		No
Basin Wildrye-montane	U-C Early Shrub	U-C Exotic Forbs	Exotic Invasion	0.0010		5
Basin Wildrye-montane	U-C Exotic Forbs	C Open	Exotic Control	0.0100	0.5000	Yes
Basin Wildrye-montane	U-C Exotic Forbs	U-A Annual Spp	ReplacementFire	0.0200	0.2500	Yes
Basin Wildrye-montane	U-C Exotic Forbs	U-A Exotic Forbs	ReplacementFire	0.0200	0.7500	Yes
Basin Wildrye-montane	U-C Exotic Forbs	U-C Exotic Forbs	Early Spring-Cattle-Grazing-byYr	0.0875		No
Basin Wildrye-montane	U-C Exotic Forbs	U-C Exotic Forbs	Exotic Control	0.0100	0.5000	Yes
Basin Wildrye-montane	U-C Exotic Forbs	U-C Exotic Forbs	Fall-Cattle-Grazing-byYr	0.1000		No
Basin Wildrye-montane	U-C Exotic Forbs	U-C Exotic Forbs	FeralHorse-Grazing	0.0180		2 No
Basin Wildrye-montane	U-C Exotic Forbs	U-C Exotic Forbs	Late-Spring-Cattle-Grazing-byYr	0.0875		1 No
Basin Wildrye-montane	U-C Exotic Forbs	U-C Exotic Forbs	Summer-Cattle-Grazing-byYr	0.1000		No
Basin Wildrye-montane	U-C Exotic Forbs	U-C Exotic Forbs	Wild-Horse-Grazing	0.0180		2 No
Basin Wildrye-montane	U-C SA	U-A Annual Spp	Fall-Cattle-Grazing-byYr	0.0875	0.0005	Yes
Basin Wildrye-montane	U-C SA	U-A Annual Spp	Fall-Cattle-Grazing-byYr	0.1000	0.0005	Yes
Basin Wildrye-montane	U-C SA	U-A Annual Spp	FeralHorse-Grazing	0.0180	0.0010	Yes
Basin Wildrye-montane	U-C SA	U-A Annual Spp	ReplacementFire	0.0250		Yes
Basin Wildrye-montane	U-C SA	U-A Annual Spp	Spike-PlateauNative-Seed	0.0000	0.1000	Yes
Basin Wildrye-montane	U-C SA	U-A Annual Spp	ThinSeed	0.0000	0.1000	Yes
Basin Wildrye-montane	U-C SA	U-A Annual Spp	Wild-Horse-Grazing	0.0180	0.0010	Yes
Basin Wildrye-montane	U-C SA	U-A SAP	Spike-PlateauNative-Seed	0.0000	0.1000	Yes
Basin Wildrye-montane	U-C SA	U-A Seeded Native	Spike-PlateauNative-Seed	0.0000	0.8000	Yes
Basin Wildrye-montane	U-C SA	U-A SI	ThinSeed	0.0000	0.8000	Yes
Basin Wildrye-montane	U-C SA	U-A SHAS	ThinSeed	0.0000	0.1000	Yes
Basin Wildrye-montane	U-C SA	U-B SA	Severe Drought	0.0070	0.1000	Yes
Basin Wildrye-montane	U-C SA	U-C Exotic Forbs	Exotic Invasion	0.0010		5
Basin Wildrye-montane	U-C SA	U-C SA	Early Spring-Cattle-Grazing-byYr	0.0875	0.9995	No
Basin Wildrye-montane	U-C SA	U-C SA	Fall-Cattle-Grazing-byYr	0.1000	0.9995	No
Basin Wildrye-montane	U-C SA	U-C SA	FeralHorse-Grazing	0.0180	0.9990	No
Basin Wildrye-montane	U-C SA	U-C SA	Severe Drought	0.0070	0.9000	Yes
Basin Wildrye-montane	U-C SA	U-C SA	Weed-InventoriesSpot-Treat	0.0100		3
Basin Wildrye-montane	U-C SA	U-C SA	Wild-Horse-Grazing	0.0180	0.9990	No
Basin Wildrye-montane	U-C SA	U-C TEA	Tree-Enroachment	0.0050		Yes
Basin Wildrye-montane	U-C SAP	U-A Annual Spp	Early Spring-Cattle-Grazing-byYr	0.0875	0.0005	Yes
Basin Wildrye-montane	U-C SAP	U-A Annual Spp	Fall-Cattle-Grazing-byYr	0.1000	0.0005	Yes
Basin Wildrye-montane	U-C SAP	U-A Annual Spp	FeralHorse-Grazing	0.0180	0.0005	Yes
Basin Wildrye-montane	U-C SAP	U-A Annual Spp	Late-Spring-Cattle-Grazing-byYr	0.0875	0.0005	Yes
Basin Wildrye-montane	U-C SAP	U-A Annual Spp	ReplacementFire	0.0250	0.5000	Yes
Basin Wildrye-montane	U-C SAP	U-A Annual Spp	Severe Drought	0.0070	0.0500	Yes
Basin Wildrye-montane	U-C SAP	U-A Annual Spp	Spike-PlateauNative-Seed	0.0000	0.1000	Yes
Basin Wildrye-montane	U-C SAP	U-A Annual Spp	Summer-Cattle-Grazing-byYr	0.1000	0.0005	Yes
Basin Wildrye-montane	U-C SAP	U-A Annual Spp	ThinSeed	0.0000	0.1000	Yes
Basin Wildrye-montane	U-C SAP	U-A Annual Spp	Wild-Horse-Grazing	0.0180	0.0005	Yes
Basin Wildrye-montane	U-C SAP	U-A SAP	ReplacementFire	0.0250	0.5000	Yes
Basin Wildrye-montane	U-C SAP	U-A SAP	Spike-PlateauNative-Seed	0.0000	0.1000	Yes
Basin Wildrye-montane	U-C SAP	U-A Seeded Native	Spike-PlateauNative-Seed	0.0000	0.8000	Yes
Basin Wildrye-montane	U-C SAP	U-A SI	ThinSeed	0.0000	0.1000	Yes
Basin Wildrye-montane	U-C SAP	U-A SHAS	ThinSeed	0.0000	0.1000	Yes
Basin Wildrye-montane	U-C SAP	U-B SAP	Severe Drought	0.0070	0.0500	Yes
Basin Wildrye-montane	U-C SAP	U-C Exotic Forbs	Exotic Invasion	0.0010		5
Basin Wildrye-montane	U-C SAP	U-C SA	FeralHorse-Grazing	0.0180	0.0005	Yes
Basin Wildrye-montane	U-C SAP	U-C SA	Late-Spring-Cattle-Grazing-byYr	0.0875	0.0005	1 Yes
Basin Wildrye-montane	U-C SAP	U-C SA	Wild-Horse-Grazing	0.0180	0.0005	Yes
Basin Wildrye-montane	U-C SAP	U-C SAP	Early Spring-Cattle-Grazing-byYr	0.0875	0.9995	No
Basin Wildrye-montane	U-C SAP	U-C SAP	Fall-Cattle-Grazing-byYr	0.1000	0.9995	No
Basin Wildrye-montane	U-C SAP	U-C SAP	FeralHorse-Grazing	0.0180	0.9990	2 No
Basin Wildrye-montane	U-C SAP	U-C SAP	Late-Spring-Cattle-Grazing-byYr	0.0875	0.9990	1 No
Basin Wildrye-montane	U-C SAP	U-C SAP	Severe Drought	0.0070	0.9000	Yes
Basin Wildrye-montane	U-C SAP	U-C SAP	Summer-Cattle-Grazing-byYr	0.1000	0.9995	No
Basin Wildrye-montane	U-C SAP	U-C SAP	Weed-InventoriesSpot-Treat	0.0100		3
Basin Wildrye-montane	U-C SAP	U-C SAP	Wild-Horse-Grazing	0.0180	0.9990	2 No
Basin Wildrye-montane	U-C SAP	U-C TEA	Tree-Enroachment	0.0050		Yes
Basin Wildrye-montane	U-C SI	C Open	Natural Recovery	0.0010		No
Basin Wildrye-montane	U-C SI	U-A SI	ReplacementFire	0.0010		Yes
Basin Wildrye-montane	U-C SI	U-C Exotic Forbs	Exotic Invasion	0.0010		5
Basin Wildrye-montane	U-C SI	U-C SI	Early Spring-Cattle-Grazing-byYr	0.0875		No
Basin Wildrye-montane	U-C SI	U-C SI	Fall-Cattle-Grazing-byYr	0.1000		No
Basin Wildrye-montane	U-C SI	U-C SI	FeralHorse-Grazing	0.0180		2 No
Basin Wildrye-montane	U-C SI	U-C SI	Late-Spring-Cattle-Grazing-byYr	0.0875		1 No
Basin Wildrye-montane	U-C SI	U-C SI	Summer-Cattle-Grazing-byYr	0.1000		No
Basin Wildrye-montane	U-C SI	U-C SI	Weed-InventoriesSpot-Treat	0.0100		3
Basin Wildrye-montane	U-C SI	U-C SI	Wild-Horse-Grazing	0.0180		2 No
Basin Wildrye-montane	U-C SI	U-C SHAS	AS-Invasion	0.0010		No
Basin Wildrye-montane	U-C SI	U-C TEA	Tree-Enroachment	0.0050		Yes
Basin Wildrye-montane	U-C SHAS	U-A SI	ThinSeedNative-Seed	0.0000	0.8000	No
Basin Wildrye-montane	U-C SHAS	U-A SHAS	Early Spring-Cattle-Grazing-byYr	0.0875		No
Basin Wildrye-montane	U-C SHAS	U-A SHAS	ReplacementFire	0.0020		Yes
Basin Wildrye-montane	U-C SHAS	U-C Exotic Forbs	Exotic Invasion	0.0010		1
Basin Wildrye-montane	U-C SHAS	U-C SI	Competition	0.0000		5
Basin Wildrye-montane	U-C SHAS	U-C SHAS	Fall-Cattle-Grazing-byYr	0.1000		No
Basin Wildrye-montane	U-C SHAS	U-C SHAS	FeralHorse-Grazing	0.0180		2 No
Basin Wildrye-montane	U-C SHAS	U-C SHAS	Late-Spring-Cattle-Grazing-byYr	0.0875		1 No

Basin Wildfire-montane	U-CSHAS	U-CSHAS	Summer-Cattle-Grazing-byYr	0.1000		No
Basin Wildfire-montane	U-CSHAS	U-CSHAS	ThinHerbicideSeed	0.0000	0.2000	No
Basin Wildfire-montane	U-CSHAS	U-CSHAS	WeedInventorySpot-Treat	0.0100		No
Basin Wildfire-montane	U-CSHAS	U-CSHAS	Web-Year	0.0670		No
Basin Wildfire-montane	U-CSHAS	U-CSHAS	Wild-Horse-Grazing	0.0350		2 No
Basin Wildfire-montane	U-CSHAS	U-CSHAS	Tree-Encroachment	0.0500		Yes
Basin Wildfire-montane	U-CTEA	U-A Annual Spp	Madroa+Plateau+NativeSeed	0.0000	0.1000	Yes
Basin Wildfire-montane	U-CTEA	U-A Annual Spp	ReplacementFire	0.0080	0.8000	Yes
Basin Wildfire-montane	U-CTEA	U-A Annual Spp	Severe-Drought	0.0070	0.0500	Yes
Basin Wildfire-montane	U-CTEA	U-A Early Shrub	Madroa+Plateau+NativeSeed	0.0000	0.1000	Yes
Basin Wildfire-montane	U-CTEA	U-A Early Shrub	ReplacementFire	0.0080	0.2000	Yes
Basin Wildfire-montane	U-CTEA	U-A Early Shrub	Severe-Drought	0.0070	0.0500	Yes
Basin Wildfire-montane	U-CTEA	U-A Exotic Native	Madroa+Plateau+NativeSeed	0.0000	0.8000	Yes
Basin Wildfire-montane	U-CTEA	U-CTEA	Severe-Drought	0.0070	0.9000	Yes
Big Sagebrush-semidesert	A.All	A.All	Early-Spring-Cattle-Grazing-byYr	0.0500	0.9995	3 No
Big Sagebrush-semidesert	A.All	A.All	Fall-Cattle-Grazing-byYr	0.0044	0.9995	3 No
Big Sagebrush-semidesert	A.All	A.All	FeralHorse-Grazing	0.0100	0.9990	2 No
Big Sagebrush-semidesert	A.All	A.All	Late-Spring-Cattle-Grazing-byYr	0.0350	0.9990	3 1 No
Big Sagebrush-semidesert	A.All	A.All	ReplacementFire	0.0040		Yes
Big Sagebrush-semidesert	A.All	A.All	Summer-Cattle-Grazing-byYr	0.0044	0.9995	3 No
Big Sagebrush-semidesert	A.All	A.All	Wild-Horse-Grazing	0.0100	0.9990	2 No
Big Sagebrush-semidesert	A.All	U-A Bare Ground	Early-Spring-Cattle-Grazing-byYr	0.0350	0.0005	3 No
Big Sagebrush-semidesert	A.All	U-A Bare Ground	Fall-Cattle-Grazing-byYr	0.0044	0.0005	3 No
Big Sagebrush-semidesert	A.All	U-A Bare Ground	FeralHorse-Grazing	0.0100	0.0005	No
Big Sagebrush-semidesert	A.All	U-A Bare Ground	Late-Spring-Cattle-Grazing-byYr	0.0350	0.0005	3 1 No
Big Sagebrush-semidesert	A.All	U-A Bare Ground	Summer-Cattle-Grazing-byYr	0.0044	0.0005	2 No
Big Sagebrush-semidesert	A.All	U-A Bare Ground	Wild-Horse-Grazing	0.0100	0.0005	No
Big Sagebrush-semidesert	A.All	U-A Early Shrub	FeralHorse-Grazing	0.0100	0.0005	No
Big Sagebrush-semidesert	A.All	U-A Early Shrub	Late-Spring-Cattle-Grazing-byYr	0.0350	0.0005	3 1 No
Big Sagebrush-semidesert	A.All	U-A Early Shrub	Wild-Horse-Grazing	0.0100	0.0005	No
Big Sagebrush-semidesert	A.All	U-ASAP	AS-Invasion	0.0025		No
Big Sagebrush-semidesert	B.Open	A.All	ReplacementFire	0.0083		Yes
Big Sagebrush-semidesert	B.Open	A.All	Severe-Drought	0.0070	0.1000	Yes
Big Sagebrush-semidesert	B.Open	B.Open	Early-Spring-Cattle-Grazing-byYr	0.0350	0.9995	No
Big Sagebrush-semidesert	B.Open	B.Open	Fall-Cattle-Grazing-byYr	0.0044	0.9995	No
Big Sagebrush-semidesert	B.Open	B.Open	FeralHorse-Grazing	0.0100	0.9990	2 No
Big Sagebrush-semidesert	B.Open	B.Open	Late-Spring-Cattle-Grazing-byYr	0.0350	0.9990	1 No
Big Sagebrush-semidesert	B.Open	B.Open	Severe-Drought	0.0070	0.9000	Yes
Big Sagebrush-semidesert	B.Open	B.Open	Summer-Cattle-Grazing-byYr	0.0044	0.9995	No
Big Sagebrush-semidesert	B.Open	B.Open	Wild-Horse-Grazing	0.0100	0.9990	2 No
Big Sagebrush-semidesert	B.Open	C.Dense	AlternateSuccession	0.0010		39 Yes
Big Sagebrush-semidesert	B.Open	U-A Bare Ground	Early-Spring-Cattle-Grazing-byYr	0.0350	0.0005	No
Big Sagebrush-semidesert	B.Open	U-A Bare Ground	Fall-Cattle-Grazing-byYr	0.0044	0.0005	No
Big Sagebrush-semidesert	B.Open	U-A Bare Ground	FeralHorse-Grazing	0.0100	0.0005	No
Big Sagebrush-semidesert	B.Open	U-A Bare Ground	Late-Spring-Cattle-Grazing-byYr	0.0350	0.0005	1 No
Big Sagebrush-semidesert	B.Open	U-A Bare Ground	Summer-Cattle-Grazing-byYr	0.0044	0.0005	No
Big Sagebrush-semidesert	B.Open	U-A Bare Ground	Wild-Horse-Grazing	0.0100	0.0005	No
Big Sagebrush-semidesert	B.Open	U-B Early Shrub	FeralHorse-Grazing	0.0100	0.0005	No
Big Sagebrush-semidesert	B.Open	U-B Early Shrub	Late-Spring-Cattle-Grazing-byYr	0.0350	0.0005	1 No
Big Sagebrush-semidesert	B.Open	U-B Early Shrub	Wild-Horse-Grazing	0.0100	0.0005	No
Big Sagebrush-semidesert	B.Open	U-BSAP	AS-Invasion	0.0025		No
Big Sagebrush-semidesert	C.Closed	A.All	Ariga Outbreak	0.0670	0.0100	5 Yes
Big Sagebrush-semidesert	C.Closed	A.All	ReplacementFire	0.0083		Yes
Big Sagebrush-semidesert	C.Closed	C.Open	Ariga Outbreak	0.0670	0.9000	Yes
Big Sagebrush-semidesert	C.Closed	B.Open	Severe-Drought	0.0070	0.1000	Yes
Big Sagebrush-semidesert	C.Closed	C.Closed	Ariga Outbreak	0.0670	0.9000	Yes
Big Sagebrush-semidesert	C.Closed	C.Closed	Early-Spring-Cattle-Grazing-byYr	0.0350	0.9995	No
Big Sagebrush-semidesert	C.Closed	C.Closed	Fall-Cattle-Grazing-byYr	0.0044	0.9995	No
Big Sagebrush-semidesert	C.Closed	C.Closed	FeralHorse-Grazing	0.0100	0.9990	2 No
Big Sagebrush-semidesert	C.Closed	C.Closed	Late-Spring-Cattle-Grazing-byYr	0.0350	0.9990	1 No
Big Sagebrush-semidesert	C.Closed	C.Closed	Severe-Drought	0.0070	0.9000	Yes
Big Sagebrush-semidesert	C.Closed	C.Closed	Summer-Cattle-Grazing-byYr	0.0044	0.9995	No
Big Sagebrush-semidesert	C.Closed	C.Closed	Wild-Horse-Grazing	0.0100	0.9990	2 No
Big Sagebrush-semidesert	C.Closed	U-A Bare Ground	Early-Spring-Cattle-Grazing-byYr	0.0350	0.0005	No
Big Sagebrush-semidesert	C.Closed	U-A Bare Ground	Fall-Cattle-Grazing-byYr	0.0044	0.0005	No
Big Sagebrush-semidesert	C.Closed	U-A Bare Ground	FeralHorse-Grazing	0.0100	0.0005	No
Big Sagebrush-semidesert	C.Closed	U-A Bare Ground	Late-Spring-Cattle-Grazing-byYr	0.0350	0.0005	1 No
Big Sagebrush-semidesert	C.Closed	U-A Bare Ground	Summer-Cattle-Grazing-byYr	0.0044	0.0005	No
Big Sagebrush-semidesert	C.Closed	U-A Bare Ground	Wild-Horse-Grazing	0.0100	0.0005	No
Big Sagebrush-semidesert	C.Closed	U-C Depleted	FeralHorse-Grazing	0.0100	0.0005	No
Big Sagebrush-semidesert	C.Closed	U-C Depleted	Late-Spring-Cattle-Grazing-byYr	0.0350	0.0005	1 No
Big Sagebrush-semidesert	C.Closed	U-C Depleted	Wild-Horse-Grazing	0.0100	0.0005	No
Big Sagebrush-semidesert	C.Closed	U-ASAP	AS-Invasion	0.0025		No
Big Sagebrush-semidesert	C.Closed	A.All	Ariga Outbreak	0.0670	0.0100	5 Yes
Big Sagebrush-semidesert	C.Dense	A.All	ReplacementFire	0.0083		Yes
Big Sagebrush-semidesert	C.Dense	B.Open	Ariga Outbreak	0.0670	0.9000	Yes
Big Sagebrush-semidesert	C.Dense	B.Open	Severe-Drought	0.0070	0.1000	Yes
Big Sagebrush-semidesert	C.Dense	C.Dense	Ariga Outbreak	0.0670	0.9000	Yes
Big Sagebrush-semidesert	C.Dense	C.Dense	Early-Spring-Cattle-Grazing-byYr	0.0350	0.9995	No
Big Sagebrush-semidesert	C.Dense	C.Dense	Fall-Cattle-Grazing-byYr	0.0044	0.9995	No
Big Sagebrush-semidesert	C.Dense	C.Dense	FeralHorse-Grazing	0.0100	0.9990	2 No
Big Sagebrush-semidesert	C.Dense	C.Dense	Late-Spring-Cattle-Grazing-byYr	0.0350	0.9990	1 No
Big Sagebrush-semidesert	C.Dense	C.Dense	Severe-Drought	0.0070	0.9000	Yes
Big Sagebrush-semidesert	C.Dense	C.Dense	Summer-Cattle-Grazing-byYr	0.0044	0.9995	No
Big Sagebrush-semidesert	C.Dense	C.Dense	Wild-Horse-Grazing	0.0100	0.9990	2 No
Big Sagebrush-semidesert	C.Dense	U-A Bare Ground	Early-Spring-Cattle-Grazing-byYr	0.0350	0.0005	No
Big Sagebrush-semidesert	C.Dense	U-A Bare Ground	Fall-Cattle-Grazing-byYr	0.0044	0.0005	No
Big Sagebrush-semidesert	C.Dense	U-A Bare Ground	FeralHorse-Grazing	0.0100	0.0005	No
Big Sagebrush-semidesert	C.Dense	U-A Bare Ground	Late-Spring-Cattle-Grazing-byYr	0.0350	0.0005	1 No
Big Sagebrush-semidesert	C.Dense	U-A Bare Ground	Summer-Cattle-Grazing-byYr	0.0044	0.0005	No
Big Sagebrush-semidesert	C.Dense	U-A Bare Ground	Wild-Horse-Grazing	0.0100	0.0005	No
Big Sagebrush-semidesert	C.Dense	U-CDP-Dense	FeralHorse-Grazing	0.0100	0.0005	No
Big Sagebrush-semidesert	C.Dense	U-CDP-Dense	Late-Spring-Cattle-Grazing-byYr	0.0350	0.0005	1 No
Big Sagebrush-semidesert	C.Dense	U-CDP-Dense	Wild-Horse-Grazing	0.0100	0.0005	No
Big Sagebrush-semidesert	C.Dense	U-CDP-Dense	AS-Invasion	0.0025		No
Big Sagebrush-semidesert	U-A Annual Spp	U-A Annual Spp	BLM-Post-Fire-Rabb	0.0100	0.8000	3 Yes
Big Sagebrush-semidesert	U-A Annual Spp	U-A Annual Spp	Early-Spring-Cattle-Grazing-byYr	0.0350		3 Yes
Big Sagebrush-semidesert	U-A Annual Spp	U-A Annual Spp	Fall-Cattle-Grazing-byYr	0.0044		3 No
Big Sagebrush-semidesert	U-A Annual Spp	U-A Annual Spp	FeralHorse-Grazing	0.0100		2 No
Big Sagebrush-semidesert	U-A Annual Spp	U-A Annual Spp	Herbicide-Plateau+Seed+Shrub-Planting	0.0100	0.1500	No
Big Sagebrush-semidesert	U-A Annual Spp	U-A Annual Spp	ReplacementFire	0.1000		1 Yes
Big Sagebrush-semidesert	U-A Annual Spp	U-A Annual Spp	Wild-Horse-Grazing	0.0100		2 No
Big Sagebrush-semidesert	U-A Annual Spp	U-A Exotic Forbs	Exotic-Invasion	0.0005		Yes
Big Sagebrush-semidesert	U-A Annual Spp	U-ASI	BLM-Post-Fire-Rabb	0.0100	0.1000	3 Yes
Big Sagebrush-semidesert	U-A Annual Spp	U-ASI	Herbicide-Plateau+Seed+Shrub-Planting	0.0100	0.7000	No
Big Sagebrush-semidesert	U-A Annual Spp	U-ASHAS	BLM-Post-Fire-Rabb	0.0100	0.1000	3 Yes
Big Sagebrush-semidesert	U-A Annual Spp	U-ASHAS	Herbicide-Plateau+Seed+Shrub-Planting	0.0100	0.1500	Yes
Big Sagebrush-semidesert	U-A Bare Ground	U-A Annual Spp	AS-Invasion	0.0050		Yes
Big Sagebrush-semidesert	U-A Bare Ground	U-A Early Shrub	AlternateSuccession	0.0050		3 Yes
Big Sagebrush-semidesert	U-A Bare Ground	U-A Exotic Forbs	Exotic-Invasion	0.0005		Yes
Big Sagebrush-semidesert	U-A Early Shrub	U-A Early Shrub	ReplacementFire	0.0083		Yes
Big Sagebrush-semidesert	U-A Early Shrub	U-A Exotic Forbs	Exotic-Invasion	0.0005		No
Big Sagebrush-semidesert	U-A Exotic Forbs	U-A Exotic Forbs	Early-Spring-Cattle-Grazing-byYr	0.0350		3 No
Big Sagebrush-semidesert	U-A Exotic Forbs	U-A Exotic Forbs	Exotic-Control	0.0100	0.2000	3 Yes
Big Sagebrush-semidesert	U-A Exotic Forbs	U-A Exotic Forbs	Fall-Cattle-Grazing-byYr	0.0044		No
Big Sagebrush-semidesert	U-A Exotic Forbs	U-A Exotic Forbs	FeralHorse-Grazing	0.0100		2 No
Big Sagebrush-semidesert	U-A Exotic Forbs	U-A Exotic Forbs	Late-Spring-Cattle-Grazing-byYr	0.0350		3 1 No
Big Sagebrush-semidesert	U-A Exotic Forbs	U-A Exotic Forbs	ReplacementFire	0.0100		Yes

Big Sagebrush-semidesert	U-A Exotic Forbs	U-A Exotic Forbs	Summer-Cattle-Grazing-byYr	0.0044		3	No	
Big Sagebrush-semidesert	U-A Exotic Forbs	U-A Exotic Forbs	Wild-Horse-Grazing	0.0100			2	No
Big Sagebrush-semidesert	U-A Exotic Forbs	U-A Exotic Forbs	Exotic-Control	0.0100	0.8000			20
Big Sagebrush-semidesert	U-A SAP	U-A Annual Spp	Early-Spring-Cattle-Grazing-byYr	0.0350	0.0005	3	No	
Big Sagebrush-semidesert	U-A SAP	U-A Annual Spp	Fall-Cattle-Grazing-byYr	0.0044	0.0005	3	No	
Big Sagebrush-semidesert	U-A SAP	U-A Annual Spp	Feral-Horse-Grazing	0.0100	0.0010			No
Big Sagebrush-semidesert	U-A SAP	U-A Annual Spp	Late-Spring-Cattle-Grazing-byYr	0.0350	0.0010	3	1	No
Big Sagebrush-semidesert	U-A SAP	U-A Annual Spp	ReplacementFire	0.0100	0.5000			1
Big Sagebrush-semidesert	U-A SAP	U-A Annual Spp	Wild-Horse-Grazing	0.0044	0.0005	3	No	
Big Sagebrush-semidesert	U-A SAP	U-A Exotic Forbs	Wild-Horse-Grazing	0.0100	0.0010			No
Big Sagebrush-semidesert	U-A SAP	U-A Exotic Forbs	Exotic-Invasion	0.0005				No
Big Sagebrush-semidesert	U-A SAP	U-A SAP	BLM-Post-Fire-Rahb	0.0100	0.8000		3	Yes
Big Sagebrush-semidesert	U-A SAP	U-A SAP	Early-Spring-Cattle-Grazing-byYr	0.0250	0.9995	3	No	
Big Sagebrush-semidesert	U-A SAP	U-A SAP	Fall-Cattle-Grazing-byYr	0.0044	0.9995	3	No	
Big Sagebrush-semidesert	U-A SAP	U-A SAP	Feral-Horse-Grazing	0.0100	0.9990			2
Big Sagebrush-semidesert	U-A SAP	U-A SAP	Late-Spring-Cattle-Grazing-byYr	0.0350	0.9990	3	1	No
Big Sagebrush-semidesert	U-A SAP	U-A SAP	ReplacementFire	0.0100	0.5000			1
Big Sagebrush-semidesert	U-A SAP	U-A SAP	Severe-Drought	0.0070	0.1000			Yes
Big Sagebrush-semidesert	U-A SAP	U-A SAP	Severe-Drought	0.0070	0.9000			-1
Big Sagebrush-semidesert	U-A SAP	U-A SAP	Summer-Cattle-Grazing-byYr	0.0044	0.9995	3	No	
Big Sagebrush-semidesert	U-A SAP	U-A SAP	Wild-Horse-Grazing	0.0100	0.9990			2
Big Sagebrush-semidesert	U-A SAP	U-A SAP	Wild-Horse-Grazing	0.0100	0.1000		3	Yes
Big Sagebrush-semidesert	U-A SAP	U-A SHAS	BLM-Post-Fire-Rahb	0.0100	0.1000		3	Yes
Big Sagebrush-semidesert	U-A Seeded Native	A All	NaturalRecovery	0.3300				5
Big Sagebrush-semidesert	U-A Seeded Native	U-A Bare Ground	Early-Spring-Cattle-Grazing-byYr	0.0350	0.0005	6	No	
Big Sagebrush-semidesert	U-A Seeded Native	U-A Bare Ground	Fall-Cattle-Grazing-byYr	0.0044	0.0010	6	No	
Big Sagebrush-semidesert	U-A Seeded Native	U-A Bare Ground	Feral-Horse-Grazing	0.0100	0.0005	6	No	
Big Sagebrush-semidesert	U-A Seeded Native	U-A Bare Ground	Late-Spring-Cattle-Grazing-byYr	0.0350	0.0005	6	1	No
Big Sagebrush-semidesert	U-A Seeded Native	U-A Bare Ground	Summer-Cattle-Grazing-byYr	0.0044	0.0110	6	No	
Big Sagebrush-semidesert	U-A Seeded Native	U-A Bare Ground	Wild-Horse-Grazing	0.0100	0.0005	6	No	
Big Sagebrush-semidesert	U-A Seeded Native	U-A Early Shrub	Early-Spring-Cattle-Grazing-byYr	0.0350		3	5	No
Big Sagebrush-semidesert	U-A Seeded Native	U-A Early Shrub	Fall-Cattle-Grazing-byYr	0.0044		3	5	No
Big Sagebrush-semidesert	U-A Seeded Native	U-A Early Shrub	Feral-Horse-Grazing	0.0100			5	No
Big Sagebrush-semidesert	U-A Seeded Native	U-A Early Shrub	Feral-Horse-Grazing	0.0100	0.0005	6	No	
Big Sagebrush-semidesert	U-A Seeded Native	U-A Early Shrub	Late-Spring-Cattle-Grazing-byYr	0.0350		3	5	1
Big Sagebrush-semidesert	U-A Seeded Native	U-A Early Shrub	Late-Spring-Cattle-Grazing-byYr	0.0350	0.0010	6	1	No
Big Sagebrush-semidesert	U-A Seeded Native	U-A Early Shrub	Severe-Drought	0.0070		1	2	Yes
Big Sagebrush-semidesert	U-A Seeded Native	U-A Early Shrub	Severe-Drought	0.0070	0.1000			Yes
Big Sagebrush-semidesert	U-A Seeded Native	U-A Early Shrub	Summer-Cattle-Grazing-byYr	0.0044		3	5	No
Big Sagebrush-semidesert	U-A Seeded Native	U-A Early Shrub	Wild-Horse-Grazing	0.0100			5	No
Big Sagebrush-semidesert	U-A Seeded Native	U-A Early Shrub	Wild-Horse-Grazing	0.0100	0.0005	6	No	
Big Sagebrush-semidesert	U-A Seeded Native	U-A Exotic Forbs	Exotic-Invasion	0.0005				No
Big Sagebrush-semidesert	U-A Seeded Native	U-A SAP	AS-Invasion	0.0025				No
Big Sagebrush-semidesert	U-A Seeded Native	U-A Seeded Native	Early-Spring-Cattle-Grazing-byYr	0.0350	0.9995	6	No	
Big Sagebrush-semidesert	U-A Seeded Native	U-A Seeded Native	Fall-Cattle-Grazing-byYr	0.0044	0.9990	6	No	
Big Sagebrush-semidesert	U-A Seeded Native	U-A Seeded Native	Feral-Horse-Grazing	0.0100	0.9990	6	2	No
Big Sagebrush-semidesert	U-A Seeded Native	U-A Seeded Native	Late-Spring-Cattle-Grazing-byYr	0.0350	0.9990	6	1	No
Big Sagebrush-semidesert	U-A Seeded Native	U-A Seeded Native	ReplacementFire	0.0020				Yes
Big Sagebrush-semidesert	U-A Seeded Native	U-A Seeded Native	Severe-Drought	0.0070	0.9000	3	Yes	
Big Sagebrush-semidesert	U-A Seeded Native	U-A Seeded Native	Summer-Cattle-Grazing-byYr	0.0044	0.9990	6	2	No
Big Sagebrush-semidesert	U-A Seeded Native	U-A Seeded Native	Wild-Horse-Grazing	0.0100	0.9990	6	2	No
Big Sagebrush-semidesert	U-A SI	U-A Early Shrub	Feral-Horse-Grazing	0.0100			2	Yes
Big Sagebrush-semidesert	U-A SI	U-A Early Shrub	Severe-Drought	0.0070		1	2	Yes
Big Sagebrush-semidesert	U-A SI	U-A Early Shrub	Wild-Horse-Grazing	0.0100			2	Yes
Big Sagebrush-semidesert	U-A SI	U-A SI	Early-Spring-Cattle-Grazing-byYr	0.0350		3	No	
Big Sagebrush-semidesert	U-A SI	U-A SI	Fall-Cattle-Grazing-byYr	0.0044		3	No	
Big Sagebrush-semidesert	U-A SI	U-A SI	Feral-Horse-Grazing	0.0100			2	No
Big Sagebrush-semidesert	U-A SI	U-A SI	Late-Spring-Cattle-Grazing-byYr	0.0350		3	1	No
Big Sagebrush-semidesert	U-A SI	U-A SI	ReplacementFire	0.0020				Yes
Big Sagebrush-semidesert	U-A SI	U-A SI	Severe-Drought	0.0070	0.1000	3	Yes	
Big Sagebrush-semidesert	U-A SI	U-A SI	Severe-Drought	0.0070	0.9000	3	-1	No
Big Sagebrush-semidesert	U-A SI	U-A SI	Summer-Cattle-Grazing-byYr	0.0044		3	No	
Big Sagebrush-semidesert	U-A SI	U-A SI	Wild-Horse-Grazing	0.0100		3	2	No
Big Sagebrush-semidesert	U-A SI	U-A SHAS	AS-Invasion	0.0010				No
Big Sagebrush-semidesert	U-A SHAS	U-A Annual Spp	Feral-Horse-Grazing	0.0100			2	Yes
Big Sagebrush-semidesert	U-A SHAS	U-A Annual Spp	Severe-Drought	0.0070		1	2	Yes
Big Sagebrush-semidesert	U-A SHAS	U-A Annual Spp	Wild-Horse-Grazing	0.0100			2	Yes
Big Sagebrush-semidesert	U-A SI	A All	Competition	0.3300				3
Big Sagebrush-semidesert	U-A SHAS	U-A SHAS	Early-Spring-Cattle-Grazing-byYr	0.0350		3	No	
Big Sagebrush-semidesert	U-A SHAS	U-A SHAS	Fall-Cattle-Grazing-byYr	0.0044		3	No	
Big Sagebrush-semidesert	U-A SHAS	U-A SHAS	Feral-Horse-Grazing	0.0100		3	2	No
Big Sagebrush-semidesert	U-A SHAS	U-A SHAS	Late-Spring-Cattle-Grazing-byYr	0.0350		3	1	No
Big Sagebrush-semidesert	U-A SHAS	U-A SHAS	ReplacementFire	0.0050				Yes
Big Sagebrush-semidesert	U-A SHAS	U-A SHAS	Severe-Drought	0.0070	0.1000	3	Yes	
Big Sagebrush-semidesert	U-A SHAS	U-A SHAS	Severe-Drought	0.0070	0.9000	3	-1	No
Big Sagebrush-semidesert	U-A SHAS	U-A SHAS	Summer-Cattle-Grazing-byYr	0.0044		3	No	
Big Sagebrush-semidesert	U-A SHAS	U-A SHAS	Web-Year	0.0070				No
Big Sagebrush-semidesert	U-A SHAS	U-A SHAS	Wild-Horse-Grazing	0.0100			3	2
Big Sagebrush-semidesert	U-B Depleted	U-A Annual Spp	Ariga-Outbreak	0.0670	0.0050			Yes
Big Sagebrush-semidesert	U-B Depleted	U-A Annual Spp	ReplacementFire	0.0083	0.5000			Yes
Big Sagebrush-semidesert	U-B Depleted	U-A Early Shrub	Ariga-Outbreak	0.0670	0.0050			Yes
Big Sagebrush-semidesert	U-B Depleted	U-A Early Shrub	ReplacementFire	0.0083	0.5000			Yes
Big Sagebrush-semidesert	U-B Depleted	U-A Early Shrub	Severe-Drought	0.0070	0.1000			Yes
Big Sagebrush-semidesert	U-B Depleted	U-A Early Shrub	Severe-Drought	0.0070	0.9000			Yes
Big Sagebrush-semidesert	U-B Depleted	U-A SI	ThinSeed	0.0000	0.1500			Yes
Big Sagebrush-semidesert	U-B Depleted	U-A SI	ThinSeed	0.0000	0.7000			Yes
Big Sagebrush-semidesert	U-B Depleted	U-A SHAS	ThinSeed	0.0000	0.1500			Yes
Big Sagebrush-semidesert	U-B Depleted	U-B Depleted	Ariga-Outbreak	0.0670	0.9900			Yes
Big Sagebrush-semidesert	U-B Depleted	U-B Depleted	Severe-Drought	0.0070	0.9000			Yes
Big Sagebrush-semidesert	U-B Depleted	U-B Exotic Forbs	Exotic-Invasion	0.0005				No
Big Sagebrush-semidesert	U-B Depleted	U-B SA	AS-Invasion	0.0050				No
Big Sagebrush-semidesert	U-B Depleted	U-C DP-Dense	Altern-Succession	0.0010		39		Yes
Big Sagebrush-semidesert	U-B Early Shrub	U-A Early Shrub	ReplacementFire	0.0083				Yes
Big Sagebrush-semidesert	U-B Early Shrub	U-B Exotic Forbs	Exotic-Invasion	0.0005				No
Big Sagebrush-semidesert	U-B Exotic Forbs	U-A Annual Spp	ReplacementFire	0.0100	0.2500			Yes
Big Sagebrush-semidesert	U-B Exotic Forbs	U-A Exotic Forbs	Exotic-Control	0.0100	0.2000			Yes
Big Sagebrush-semidesert	U-B Exotic Forbs	U-A Exotic Forbs	ReplacementFire	0.0100	0.7500			Yes
Big Sagebrush-semidesert	U-B Exotic Forbs	U-A SI	Exotic-Control	0.0100	0.8000			Yes
Big Sagebrush-semidesert	U-B Exotic Forbs	U-B Exotic Forbs	Early-Spring-Cattle-Grazing-byYr	0.0350				Yes
Big Sagebrush-semidesert	U-B Exotic Forbs	U-B Exotic Forbs	Fall-Cattle-Grazing-byYr	0.0044				No
Big Sagebrush-semidesert	U-B Exotic Forbs	U-B Exotic Forbs	Feral-Horse-Grazing	0.0100				2
Big Sagebrush-semidesert	U-B Exotic Forbs	U-B Exotic Forbs	Late-Spring-Cattle-Grazing-byYr	0.0350				1
Big Sagebrush-semidesert	U-B Exotic Forbs	U-B Exotic Forbs	Summer-Cattle-Grazing-byYr	0.0044				No
Big Sagebrush-semidesert	U-B Exotic Forbs	U-B Exotic Forbs	Wild-Horse-Grazing	0.0100				2
Big Sagebrush-semidesert	U-B SA	U-A Annual Spp	Ariga-Outbreak	0.0670	0.0100			5
Big Sagebrush-semidesert	U-B SA	U-A Annual Spp	Early-Spring-Cattle-Grazing-byYr	0.0350	0.0005			No
Big Sagebrush-semidesert	U-B SA	U-A Annual Spp	Fall-Cattle-Grazing-byYr	0.0044	0.0005			No
Big Sagebrush-semidesert	U-B SA	U-A Annual Spp	Feral-Horse-Grazing	0.0100	0.0001			2
Big Sagebrush-semidesert	U-B SA	U-A Annual Spp	ReplacementFire	0.0100				Yes
Big Sagebrush-semidesert	U-B SA	U-A Annual Spp	Severe-Drought	0.0070	0.1000			No
Big Sagebrush-semidesert	U-B SA	U-A Annual Spp	Severe-Drought	0.0070	0.1000			No
Big Sagebrush-semidesert	U-B SA	U-A Annual Spp	ThinSeed	0.0000	0.1500			Yes
Big Sagebrush-semidesert	U-B SA	U-A Annual Spp	Wild-Horse-Grazing	0.0100	0.0001			2
Big Sagebrush-semidesert	U-B SA	U-A SI	ThinSeed	0.0000	0.7000			Yes
Big Sagebrush-semidesert	U-B SA	U-A SHAS	ThinSeed	0.0000	0.1500			Yes
Big Sagebrush-semidesert	U-B SA	U-B Exotic Forbs	Exotic-Invasion	0.0005				No
Big Sagebrush-semidesert	U-B SA	U-B SA	Ariga-Outbreak	0.0670	0.9900			Yes
Big Sagebrush-semidesert	U-B SA	U-B SA	Early-Spring-Cattle-Grazing-byYr	0.0350	0.9995			No
Big Sagebrush-semidesert	U-B SA	U-B SA	Fall-Cattle-Grazing-byYr	0.0044	0.9995			No
Big Sagebrush-semidesert	U-B SA	U-B SA	Feral-Horse-Grazing	0.0100	0.9990			2

Big Sagebrush-semidesert	U-B-SA	U-B-SA	Severe Drought	0.0070	0.9000	1	No
Big Sagebrush-semidesert	U-B-SA	U-B-SA	Wild-Horse-Grazing	0.0100	0.9990	2	No
Big Sagebrush-semidesert	U-B-SA	U-CSA-Dense	Alternate Succession	0.0010		39	Yes
Big Sagebrush-semidesert	U-B-SAP	U-A Annual Spp	Early Spring-Cattle-Grazing-by/yr	0.0350	0.0005		No
Big Sagebrush-semidesert	U-B-SAP	U-A Annual Spp	Fall-Cattle-Grazing-by/yr	0.0044	0.0005		No
Big Sagebrush-semidesert	U-B-SAP	U-A Annual Spp	Feral-Horse-Grazing	0.0100	0.0005		No
Big Sagebrush-semidesert	U-B-SAP	U-A Annual Spp	Late Spring-Cattle-Grazing-by/yr	0.0350	0.0005		No
Big Sagebrush-semidesert	U-B-SAP	U-A Annual Spp	Summer-Cattle-Grazing-by/yr	0.0044	0.0005		No
Big Sagebrush-semidesert	U-B-SAP	U-A Annual Spp	Wild-Horse-Grazing	0.0005	0.0005		No
Big Sagebrush-semidesert	U-B-SAP	U-A-SAP	Ariga-Outbreak	0.0670	0.0100	5	Yes
Big Sagebrush-semidesert	U-B-SAP	U-A-SAP	ReplacemntFire	0.0100		1	Yes
Big Sagebrush-semidesert	U-B-SAP	U-A-SAP	Severe Drought	0.0070	0.1000		Yes
Big Sagebrush-semidesert	U-B-SAP	U-B Exotic Forbs	Excitic-Invasion	0.0005			No
Big Sagebrush-semidesert	U-B-SAP	U-B-SA	Feral-Horse-Grazing	0.0100	0.0005	2	No
Big Sagebrush-semidesert	U-B-SAP	U-B-SA	Late Spring-Cattle-Grazing-by/yr	0.0350	0.0005	1	No
Big Sagebrush-semidesert	U-B-SAP	U-B-SA	Wild-Horse-Grazing	0.0100	0.0005	2	No
Big Sagebrush-semidesert	U-B-SAP	U-B-SAP	Late Spring-Cattle-Grazing-by/yr	0.0350	0.9990	1	Yes
Big Sagebrush-semidesert	U-B-SAP	U-B-SAP	Early Spring-Cattle-Grazing-by/yr	0.0350	0.9995		No
Big Sagebrush-semidesert	U-B-SAP	U-B-SAP	Fall-Cattle-Grazing-by/yr	0.0044	0.9995		No
Big Sagebrush-semidesert	U-B-SAP	U-B-SAP	Feral-Horse-Grazing	0.0100	0.9990	2	No
Big Sagebrush-semidesert	U-B-SAP	U-B-SAP	Late Spring-Cattle-Grazing-by/yr	0.0350	0.9990	1	No
Big Sagebrush-semidesert	U-B-SAP	U-B-SAP	Severe Drought	0.0070	0.9000		Yes
Big Sagebrush-semidesert	U-B-SAP	U-B-SAP	Summer-Cattle-Grazing-by/yr	0.0044	0.9995		No
Big Sagebrush-semidesert	U-B-SAP	U-B-SAP	Wild-Horse-Grazing	0.0100	0.9990	2	No
Big Sagebrush-semidesert	U-B-SAP	U-CSAP-Dense	Alternate Succession	0.0010		39	Yes
Big Sagebrush-semidesert	U-B-Seeded Native	B-Open	Natural-Recovery	0.3300			5
Big Sagebrush-semidesert	U-B-Seeded Native	U-A Bare Ground	Early Spring-Cattle-Grazing-by/yr	0.0350	0.0005		No
Big Sagebrush-semidesert	U-B-Seeded Native	U-A Bare Ground	Fall-Cattle-Grazing-by/yr	0.0044	0.0010		No
Big Sagebrush-semidesert	U-B-Seeded Native	U-A Bare Ground	Feral-Horse-Grazing	0.0100	0.0005	1	No
Big Sagebrush-semidesert	U-B-Seeded Native	U-A Bare Ground	Late Spring-Cattle-Grazing-by/yr	0.0350	0.0005	1	No
Big Sagebrush-semidesert	U-B-Seeded Native	U-A Bare Ground	Summer-Cattle-Grazing-by/yr	0.0044	0.0010		No
Big Sagebrush-semidesert	U-B-Seeded Native	U-A Bare Ground	Wild-Horse-Grazing	0.0100	0.0005		No
Big Sagebrush-semidesert	U-B-Seeded Native	U-A Early Shrub	Feral-Horse-Grazing	0.0100	0.0005		No
Big Sagebrush-semidesert	U-B-Seeded Native	U-A Early Shrub	Wild-Horse-Grazing	0.0100	0.0005		No
Big Sagebrush-semidesert	U-B-Seeded Native	U-A Seeded Native	Severe Drought	0.0070	0.1000		Yes
Big Sagebrush-semidesert	U-B-Seeded Native	U-B Early Shrub	Late Spring-Cattle-Grazing-by/yr	0.0350	0.0005	1	No
Big Sagebrush-semidesert	U-B-Seeded Native	U-B Exotic Forbs	Excitic-Invasion	0.0005			No
Big Sagebrush-semidesert	U-B-Seeded Native	U-B-SAP	AS-Invasion	0.0005			No
Big Sagebrush-semidesert	U-B-Seeded Native	U-B-Seeded Native	Early Spring-Cattle-Grazing-by/yr	0.0350	0.9995		No
Big Sagebrush-semidesert	U-B-Seeded Native	U-B-Seeded Native	Fall-Cattle-Grazing-by/yr	0.0044	0.9990		No
Big Sagebrush-semidesert	U-B-Seeded Native	U-B-Seeded Native	Feral-Horse-Grazing	0.0100	0.9990	2	No
Big Sagebrush-semidesert	U-B-Seeded Native	U-B-Seeded Native	Late Spring-Cattle-Grazing-by/yr	0.0350	0.9990	1	No
Big Sagebrush-semidesert	U-B-Seeded Native	U-B-Seeded Native	ReplacemntFire	0.0083			Yes
Big Sagebrush-semidesert	U-B-Seeded Native	U-B-Seeded Native	Severe Drought	0.0070	0.9000		Yes
Big Sagebrush-semidesert	U-B-Seeded Native	U-B-Seeded Native	Summer-Cattle-Grazing-by/yr	0.0044	0.9990		No
Big Sagebrush-semidesert	U-B-Seeded Native	U-B-Seeded Native	Wild-Horse-Grazing	0.0100	0.9990	2	No
Big Sagebrush-semidesert	U-B-Seeded Native	B-Open	Natural-Recovery	0.0010			10
Big Sagebrush-semidesert	U-B-SI	U-A-SI	ReplacemntFire	0.0020			Yes
Big Sagebrush-semidesert	U-B-SI	U-A-SI	Severe Drought	0.0070	0.1000		Yes
Big Sagebrush-semidesert	U-B-SI	U-B-SI	Early Spring-Cattle-Grazing-by/yr	0.0350	0.9990		Yes
Big Sagebrush-semidesert	U-B-SI	U-B-SI	Fall-Cattle-Grazing-by/yr	0.0044			No
Big Sagebrush-semidesert	U-B-SI	U-B-SI	Feral-Horse-Grazing	0.0100			2
Big Sagebrush-semidesert	U-B-SI	U-B-SI	Late Spring-Cattle-Grazing-by/yr	0.0350			1
Big Sagebrush-semidesert	U-B-SI	U-B-SI	Severe Drought	0.0070	0.9000		Yes
Big Sagebrush-semidesert	U-B-SI	U-B-SI	Summer-Cattle-Grazing-by/yr	0.0044			No
Big Sagebrush-semidesert	U-B-SI	U-B-SI	Wild-Horse-Grazing	0.0100			2
Big Sagebrush-semidesert	U-B-SI	U-B-SHAS	AS-Invasion	0.0010			No
Big Sagebrush-semidesert	U-B-SI	U-CSI-Dense	Alternate Succession	0.0010		39	No
Big Sagebrush-semidesert	U-B-SHAS	U-A-SHAS	ReplacemntFire	0.0050			Yes
Big Sagebrush-semidesert	U-B-SHAS	U-A-SHAS	Severe Drought	0.0070	0.1000		Yes
Big Sagebrush-semidesert	U-B-SHAS	U-B-SI	Competition	0.3300			3
Big Sagebrush-semidesert	U-B-SHAS	U-B-SHAS	Early Spring-Cattle-Grazing-by/yr	0.0350	0.9990		Yes
Big Sagebrush-semidesert	U-B-SHAS	U-B-SHAS	Fall-Cattle-Grazing-by/yr	0.0044			No
Big Sagebrush-semidesert	U-B-SHAS	U-B-SHAS	Feral-Horse-Grazing	0.0100			2
Big Sagebrush-semidesert	U-B-SHAS	U-B-SHAS	Late Spring-Cattle-Grazing-by/yr	0.0350			1
Big Sagebrush-semidesert	U-B-SHAS	U-B-SHAS	Severe Drought	0.0070	0.9000		Yes
Big Sagebrush-semidesert	U-B-SHAS	U-B-SHAS	Summer-Cattle-Grazing-by/yr	0.0044			No
Big Sagebrush-semidesert	U-B-SHAS	U-B-SHAS	Wet-Year	0.0670			No
Big Sagebrush-semidesert	U-B-SHAS	U-B-SHAS	Wild-Horse-Grazing	0.0100			2
Big Sagebrush-semidesert	U-B-SHAS	U-CSHA-Dense	Alternate Succession	0.0010		39	No
Big Sagebrush-semidesert	U-C Depleted	U-A Annual Spp	Ariga-Outbreak	0.0670	0.0050		Yes
Big Sagebrush-semidesert	U-C Depleted	U-A Annual Spp	ReplacemntFire	0.0083	0.5000		Yes
Big Sagebrush-semidesert	U-C Depleted	U-A Early Shrub	Ariga-Outbreak	0.0670	0.0050		Yes
Big Sagebrush-semidesert	U-C Depleted	U-A Early Shrub	ReplacemntFire	0.0083	0.5000		Yes
Big Sagebrush-semidesert	U-C Depleted	U-A Early Shrub	Severe Drought	0.0070	0.1000		No
Big Sagebrush-semidesert	U-C Depleted	U-A Early Shrub	ThinSeed	0.0000	0.1500		Yes
Big Sagebrush-semidesert	U-C Depleted	U-A-SI	ThinSeed	0.0000	0.7000		Yes
Big Sagebrush-semidesert	U-C Depleted	U-A-SHAS	ThinSeed	0.0000	0.1500		Yes
Big Sagebrush-semidesert	U-C Depleted	U-B Depleted	Ariga-Outbreak	0.0670	0.0900		Yes
Big Sagebrush-semidesert	U-C Depleted	U-C Depleted	Severe Drought	0.0070	0.1000		Yes
Big Sagebrush-semidesert	U-C Depleted	U-C Depleted	Ariga-Outbreak	0.0670	0.9900		Yes
Big Sagebrush-semidesert	U-C Depleted	U-C Depleted	Severe Drought	0.0070	0.9000		Yes
Big Sagebrush-semidesert	U-C Depleted	U-C Exotic Forbs	Excitic-Invasion	0.0005			No
Big Sagebrush-semidesert	U-C Depleted	U-CSA	AS-Invasion	0.0050			No
Big Sagebrush-semidesert	U-C Depleted	U-A Annual Spp	Ariga-Outbreak	0.0670	0.0050		Yes
Big Sagebrush-semidesert	U-C Depleted	U-A Annual Spp	ReplacemntFire	0.0083	0.5000		Yes
Big Sagebrush-semidesert	U-C Depleted	U-A Early Shrub	Ariga-Outbreak	0.0670	0.0050		Yes
Big Sagebrush-semidesert	U-C Depleted	U-A Early Shrub	ReplacemntFire	0.0083	0.5000		Yes
Big Sagebrush-semidesert	U-C Depleted	U-A Early Shrub	ThinSeed	0.0000	0.1500		Yes
Big Sagebrush-semidesert	U-C Depleted	U-A-SI	ThinSeed	0.0000	0.7000		Yes
Big Sagebrush-semidesert	U-C Depleted	U-B Depleted	Ariga-Outbreak	0.0670	0.0900		Yes
Big Sagebrush-semidesert	U-C Depleted	U-B Depleted	Severe Drought	0.0070	0.1000		Yes
Big Sagebrush-semidesert	U-C Depleted	U-C Depleted	Ariga-Outbreak	0.0670	0.9000		Yes
Big Sagebrush-semidesert	U-C Depleted	U-C Depleted	Severe Drought	0.0070	0.9000		Yes
Big Sagebrush-semidesert	U-C Depleted	U-C Exotic Forbs	Excitic-Invasion	0.0005			No
Big Sagebrush-semidesert	U-C Depleted	U-CSA-Dense	AS-Invasion	0.0025			No
Big Sagebrush-semidesert	U-C Early Shrub	U-A Early Shrub	ReplacemntFire	0.0083			Yes
Big Sagebrush-semidesert	U-C Early Shrub	U-C Exotic Forbs	Excitic-Invasion	0.0005			No
Big Sagebrush-semidesert	U-C Exotic Forbs	U-A Annual Spp	ReplacemntFire	0.0100	0.2500		Yes
Big Sagebrush-semidesert	U-C Exotic Forbs	U-A Exotic Forbs	Excitic-Control	0.0100	0.2000		Yes
Big Sagebrush-semidesert	U-C Exotic Forbs	U-C Exotic Forbs	ReplacemntFire	0.0100	0.7500		Yes
Big Sagebrush-semidesert	U-C Exotic Forbs	U-A-SI	Excitic-Control	0.0100	0.8000		Yes
Big Sagebrush-semidesert	U-C Exotic Forbs	U-C Exotic Forbs	Early Spring-Cattle-Grazing-by/yr	0.0350			No
Big Sagebrush-semidesert	U-C Exotic Forbs	U-C Exotic Forbs	Fall-Cattle-Grazing-by/yr	0.0044			No
Big Sagebrush-semidesert	U-C Exotic Forbs	U-C Exotic Forbs	Feral-Horse-Grazing	0.0100			2
Big Sagebrush-semidesert	U-C Exotic Forbs	U-C Exotic Forbs	Late Spring-Cattle-Grazing-by/yr	0.0350			1
Big Sagebrush-semidesert	U-C Exotic Forbs	U-C Exotic Forbs	Summer-Cattle-Grazing-by/yr	0.0044			No
Big Sagebrush-semidesert	U-C Exotic Forbs	U-C Exotic Forbs	Wild-Horse-Grazing	0.0100			2
Big Sagebrush-semidesert	U-C Exotic Forbs	U-A Annual Spp	Ariga-Outbreak	0.0670	0.0100		5
Big Sagebrush-semidesert	U-C Exotic Forbs	U-A Annual Spp	Early Spring-Cattle-Grazing-by/yr	0.0350	0.0005		No
Big Sagebrush-semidesert	U-C Exotic Forbs	U-A Annual Spp	Fall-Cattle-Grazing-by/yr	0.0044	0.0005		No
Big Sagebrush-semidesert	U-C Exotic Forbs	U-A Annual Spp	Feral-Horse-Grazing	0.0100	0.0001		No
Big Sagebrush-semidesert	U-C Exotic Forbs	U-A Annual Spp	ReplacemntFire	0.0100			Yes
Big Sagebrush-semidesert	U-C Exotic Forbs	U-A Annual Spp	ThinSeed	0.0000	0.1500		Yes
Big Sagebrush-semidesert	U-C Exotic Forbs	U-A Annual Spp	Wild-Horse-Grazing	0.0100	0.0001		No
Big Sagebrush-semidesert	U-C Exotic Forbs	U-C Exotic Forbs	ThinSeed	0.0000	0.7000		Yes
Big Sagebrush-semidesert	U-C Exotic Forbs	U-A-SHAS	ThinSeed	0.0000	0.1500		Yes
Big Sagebrush-semidesert	U-C Exotic Forbs	U-B-SA	Ariga-Outbreak	0.0670	0.9000		Yes

Big Sagebrush-uplandHtrees	D.Open	D.Open	FeralHorse-Grazing	0.0130	0.9990	2	No					
Big Sagebrush-uplandHtrees	D.Open	D.Open	Late-Spring-Cattle-Grazing-byYr	0.0500	0.9990	1	No					
Big Sagebrush-uplandHtrees	D.Open	D.Open	Severe-Drought	0.0070	0.9000		Yes					
Big Sagebrush-uplandHtrees	D.Open	D.Open	Summer-Cattle-Grazing-byYr	0.0063	0.9995		No					
Big Sagebrush-uplandHtrees	D.Open	D.Open	Wild-Horse-Grazing	0.0130	0.9990		2	No				
Big Sagebrush-uplandHtrees	D.Open	U-A Bare Ground	Early-Spring-Cattle-Grazing-byYr	0.0500	0.0005		No					
Big Sagebrush-uplandHtrees	D.Open	U-A Bare Ground	Fall-Cattle-Grazing-byYr	0.0063	0.0005		No					
Big Sagebrush-uplandHtrees	D.Open	U-A Bare Ground	FeralHorse-Grazing	0.0130	0.0005		No					
Big Sagebrush-uplandHtrees	D.Open	U-A Bare Ground	Late-Spring-Cattle-Grazing-byYr	0.0500	0.0005		1	No				
Big Sagebrush-uplandHtrees	D.Open	U-A Bare Ground	Summer-Cattle-Grazing-byYr	0.0063	0.0005		No					
Big Sagebrush-uplandHtrees	D.Open	U-A Bare Ground	Wild-Horse-Grazing	0.0130	0.0005		No					
Big Sagebrush-uplandHtrees	D.Open	U-D Depleted	FeralHorse-Grazing	0.0130	0.0005		No					
Big Sagebrush-uplandHtrees	D.Open	U-D Depleted	Late-Spring-Cattle-Grazing-byYr	0.0500	0.0005		1	No				
Big Sagebrush-uplandHtrees	D.Open	U-D Depleted	Wild-Horse-Grazing	0.0130	0.0005		No					
Big Sagebrush-uplandHtrees	D.Open	U-D SAP	AS-Invasion	0.0025			No					
Big Sagebrush-uplandHtrees	E.Closed	A.All	MastCott+Native-Seed	0.0000			Yes					
Big Sagebrush-uplandHtrees	E.Closed	A.All	ReplacementFire	0.0080			Yes					
Big Sagebrush-uplandHtrees	E.Closed	D.Dense	Severe-Drought	0.0070	0.0010		Yes					
Big Sagebrush-uplandHtrees	E.Closed	D.Open	Severe-Drought	0.0070	0.0990		Yes					
Big Sagebrush-uplandHtrees	E.Closed	E.Closed	Severe-Drought	0.0070		175	5	No				
Big Sagebrush-uplandHtrees	E.Closed	E.Closed	Severe-Drought	0.0070	0.9000		174	Yes				
Big Sagebrush-uplandHtrees	E.Closed	E-TEA	AS-Invasion	0.0025			No					
Big Sagebrush-uplandHtrees	E.Closed	E-TEA	Tree-Encroachment	0.0200		200		No				
Big Sagebrush-uplandHtrees	U-A Annual Spp	U-A Annual Spp	BLM-Post-Fire-RabB	0.0100	0.6500			1	Yes			
Big Sagebrush-uplandHtrees	U-A Annual Spp	U-A Annual Spp	Early-Spring-Cattle-Grazing-byYr	0.0500					Yes			
Big Sagebrush-uplandHtrees	U-A Annual Spp	U-A Annual Spp	Fall-Cattle-Grazing-byYr	0.0063					2	No		
Big Sagebrush-uplandHtrees	U-A Annual Spp	U-A Annual Spp	FeralHorse-Grazing	0.0130					2	No		
Big Sagebrush-uplandHtrees	U-A Annual Spp	U-A Annual Spp	Herbicide-Plateau+SeedShrub-Planting	0.0100	0.1500				1	No		
Big Sagebrush-uplandHtrees	U-A Annual Spp	U-A Annual Spp	ReplacementFire	0.0080					2	No		
Big Sagebrush-uplandHtrees	U-A Annual Spp	U-A Annual Spp	Wild-Horse-Grazing	0.0130					2	No		
Big Sagebrush-uplandHtrees	U-A Annual Spp	U-A Exotic Forbs	Exotic-Invasion	0.0005					No			
Big Sagebrush-uplandHtrees	U-A Annual Spp	U-A SI	BLM-Post-Fire-RabB	0.0100	0.1750				1	Yes		
Big Sagebrush-uplandHtrees	U-A Annual Spp	U-A SI	Herbicide-Plateau+SeedShrub-Planting	0.0100	0.7500				Yes			
Big Sagebrush-uplandHtrees	U-A Annual Spp	U-A SHAS	BLM-Post-Fire-RabB	0.0100	0.1750				1	Yes		
Big Sagebrush-uplandHtrees	U-A Annual Spp	U-A SHAS	Herbicide-Plateau+SeedShrub-Planting	0.0100	0.1500				Yes			
Big Sagebrush-uplandHtrees	U-A Bare Ground	U-A Annual Spp	AS-Invasion	0.0050					Yes			
Big Sagebrush-uplandHtrees	U-A Bare Ground	U-A Early Shrub	Alternate-Succession	0.0500					3	Yes		
Big Sagebrush-uplandHtrees	U-A Bare Ground	U-A Exotic Forbs	Exotic-Invasion	0.0005					Yes			
Big Sagebrush-uplandHtrees	U-A Early Shrub	U-A Early Shrub	ReplacementFire	0.0100					Yes			
Big Sagebrush-uplandHtrees	U-A Early Shrub	U-A Exotic Forbs	Exotic-Invasion	0.0005					No			
Big Sagebrush-uplandHtrees	U-A Exotic Forbs	U-A Exotic Forbs	Early-Spring-Cattle-Grazing-byYr	0.0500					No			
Big Sagebrush-uplandHtrees	U-A Exotic Forbs	U-A Exotic Forbs	Fall-Cattle-Grazing-byYr	0.0063	0.2000				3	No		
Big Sagebrush-uplandHtrees	U-A Exotic Forbs	U-A Exotic Forbs	FeralHorse-Grazing	0.0130					2	No		
Big Sagebrush-uplandHtrees	U-A Exotic Forbs	U-A Exotic Forbs	Late-Spring-Cattle-Grazing-byYr	0.0500					3	1	No	
Big Sagebrush-uplandHtrees	U-A Exotic Forbs	U-A Exotic Forbs	ReplacementFire	0.0080					3	No		
Big Sagebrush-uplandHtrees	U-A Exotic Forbs	U-A Exotic Forbs	Summer-Cattle-Grazing-byYr	0.0063					3	No		
Big Sagebrush-uplandHtrees	U-A Exotic Forbs	U-A Exotic Forbs	Wild-Horse-Grazing	0.0130					2	No		
Big Sagebrush-uplandHtrees	U-A Exotic Forbs	U-A Exotic Forbs	Exotic-Control	0.0100	0.8000				20	Yes		
Big Sagebrush-uplandHtrees	U-A SAP	U-A Annual Spp	Early-Spring-Cattle-Grazing-byYr	0.0500	0.0005				3	No		
Big Sagebrush-uplandHtrees	U-A SAP	U-A Annual Spp	Fall-Cattle-Grazing-byYr	0.0063	0.0005				3	No		
Big Sagebrush-uplandHtrees	U-A SAP	U-A Annual Spp	FeralHorse-Grazing	0.0130	0.0010				No			
Big Sagebrush-uplandHtrees	U-A SAP	U-A Annual Spp	Late-Spring-Cattle-Grazing-byYr	0.0500	0.0010				3	No		
Big Sagebrush-uplandHtrees	U-A SAP	U-A Annual Spp	ReplacementFire	0.0080	0.5000				1	No		
Big Sagebrush-uplandHtrees	U-A SAP	U-A Annual Spp	Summer-Cattle-Grazing-byYr	0.0063	0.0005				3	No		
Big Sagebrush-uplandHtrees	U-A SAP	U-A Annual Spp	Wild-Horse-Grazing	0.0130	0.0010				No			
Big Sagebrush-uplandHtrees	U-A SAP	U-A SAP	BLM-Post-Fire-RabB	0.0100	0.6500				1	Yes		
Big Sagebrush-uplandHtrees	U-A SAP	U-A SAP	Early-Spring-Cattle-Grazing-byYr	0.0500	0.9995				3	No		
Big Sagebrush-uplandHtrees	U-A SAP	U-A SAP	Exotic-Invasion	0.0005					No			
Big Sagebrush-uplandHtrees	U-A SAP	U-A SAP	Fall-Cattle-Grazing-byYr	0.0063	0.9995				3	No		
Big Sagebrush-uplandHtrees	U-A SAP	U-A SAP	FeralHorse-Grazing	0.0130	0.9990				2	No		
Big Sagebrush-uplandHtrees	U-A SAP	U-A SAP	Late-Spring-Cattle-Grazing-byYr	0.0500	0.9990				3	1	No	
Big Sagebrush-uplandHtrees	U-A SAP	U-A SAP	ReplacementFire	0.0125	0.5000				1	Yes		
Big Sagebrush-uplandHtrees	U-A SAP	U-A SAP	Severe-Drought	0.0070	0.1000				Yes			
Big Sagebrush-uplandHtrees	U-A SAP	U-A SAP	Severe-Drought	0.0070	0.9000				-1	No		
Big Sagebrush-uplandHtrees	U-A SAP	U-A SAP	Summer-Cattle-Grazing-byYr	0.0063	0.9995				3	No		
Big Sagebrush-uplandHtrees	U-A SAP	U-A SAP	Wild-Horse-Grazing	0.0130	0.9990				2	No		
Big Sagebrush-uplandHtrees	U-A SAP	U-A SI	BLM-Post-Fire-RabB	0.0100	0.1750				Yes			
Big Sagebrush-uplandHtrees	U-A SAP	U-A SHAS	BLM-Post-Fire-RabB	0.0100	0.1750				Yes			
Big Sagebrush-uplandHtrees	U-A Seeded Native	A.All	NaturalRecovery	0.0200					5	1	No	
Big Sagebrush-uplandHtrees	U-A Seeded Native	U-A Bare Ground	Early-Spring-Cattle-Grazing-byYr	0.0500	0.0005				6	Yes		
Big Sagebrush-uplandHtrees	U-A Seeded Native	U-A Bare Ground	Fall-Cattle-Grazing-byYr	0.0063	0.0010				6	Yes		
Big Sagebrush-uplandHtrees	U-A Seeded Native	U-A Bare Ground	FeralHorse-Grazing	0.0130	0.0005				Yes			
Big Sagebrush-uplandHtrees	U-A Seeded Native	U-A Bare Ground	Late-Spring-Cattle-Grazing-byYr	0.0500	0.0005				6	Yes		
Big Sagebrush-uplandHtrees	U-A Seeded Native	U-A Bare Ground	Summer-Cattle-Grazing-byYr	0.0063	0.0010				6	Yes		
Big Sagebrush-uplandHtrees	U-A Seeded Native	U-A Bare Ground	Wild-Horse-Grazing	0.0130	0.0005				Yes			
Big Sagebrush-uplandHtrees	U-A Seeded Native	U-A Early Shrub	Early-Spring-Cattle-Grazing-byYr	0.0500					3	5	No	
Big Sagebrush-uplandHtrees	U-A Seeded Native	U-A Early Shrub	Fall-Cattle-Grazing-byYr	0.0063					3	5	No	
Big Sagebrush-uplandHtrees	U-A Seeded Native	U-A Early Shrub	FeralHorse-Grazing	0.0130	0.0005				Yes			
Big Sagebrush-uplandHtrees	U-A Seeded Native	U-A Early Shrub	Late-Spring-Cattle-Grazing-byYr	0.0500					3	5	1	No
Big Sagebrush-uplandHtrees	U-A Seeded Native	U-A Early Shrub	Late-Spring-Cattle-Grazing-byYr	0.0500	0.0005				6	Yes		
Big Sagebrush-uplandHtrees	U-A Seeded Native	U-A Early Shrub	Severe-Drought	0.0070					1	2	Yes	
Big Sagebrush-uplandHtrees	U-A Seeded Native	U-A Early Shrub	Severe-Drought	0.0070	0.1000				3	Yes		
Big Sagebrush-uplandHtrees	U-A Seeded Native	U-A Early Shrub	Summer-Cattle-Grazing-byYr	0.0063					3	5	No	
Big Sagebrush-uplandHtrees	U-A Seeded Native	U-A Early Shrub	Wild-Horse-Grazing	0.0130	0.0005				Yes			
Big Sagebrush-uplandHtrees	U-A Seeded Native	U-A Exotic Forbs	Exotic-Invasion	0.0005					No			
Big Sagebrush-uplandHtrees	U-A Seeded Native	U-A SAP	AS-Invasion	0.0025					No			
Big Sagebrush-uplandHtrees	U-A Seeded Native	U-A Seeded Native	Early-Spring-Cattle-Grazing-byYr	0.0500	0.9995				6	No		
Big Sagebrush-uplandHtrees	U-A Seeded Native	U-A Seeded Native	Fall-Cattle-Grazing-byYr	0.0063	0.9990				6	No		
Big Sagebrush-uplandHtrees	U-A Seeded Native	U-A Seeded Native	FeralHorse-Grazing	0.0130	0.9990				2	No		
Big Sagebrush-uplandHtrees	U-A Seeded Native	U-A Seeded Native	Late-Spring-Cattle-Grazing-byYr	0.0500	0.9990				3	1	No	
Big Sagebrush-uplandHtrees	U-A Seeded Native	U-A Seeded Native	ReplacementFire	0.0020					Yes			
Big Sagebrush-uplandHtrees	U-A Seeded Native	U-A Seeded Native	Severe-Drought	0.0070	0.9000				3	Yes		
Big Sagebrush-uplandHtrees	U-A Seeded Native	U-A Seeded Native	Summer-Cattle-Grazing-byYr	0.0063	0.9990				6	No		
Big Sagebrush-uplandHtrees	U-A Seeded Native	U-A Seeded Native	Wild-Horse-Grazing	0.0130	0.9990				2	No		
Big Sagebrush-uplandHtrees	U-A SI	U-A Early Shrub	FeralHorse-Grazing	0.0130					2	2	No	
Big Sagebrush-uplandHtrees	U-A SI	U-A Early Shrub	Severe-Drought	0.0070					1	2	Yes	
Big Sagebrush-uplandHtrees	U-A SI	U-A SI	Wild-Horse-Grazing	0.0130					2	2	No	
Big Sagebrush-uplandHtrees	U-A SI	U-A SI	Early-Spring-Cattle-Grazing-byYr	0.0500					3	No		
Big Sagebrush-uplandHtrees	U-A SI	U-A SI	Fall-Cattle-Grazing-byYr	0.0063					3	No		
Big Sagebrush-uplandHtrees	U-A SI	U-A SI	FeralHorse-Grazing	0.0130					3	2	No	
Big Sagebrush-uplandHtrees	U-A SI	U-A SI	Late-Spring-Cattle-Grazing-byYr	0.0500					3	1	No	
Big Sagebrush-uplandHtrees	U-A SI	U-A SI	ReplacementFire	0.0020					1	Yes		
Big Sagebrush-uplandHtrees	U-A SI	U-A SI	Severe-Drought	0.0070	0.1000				3	Yes		
Big Sagebrush-uplandHtrees	U-A SI	U-A SI	Severe-Drought	0.0070	0.9000				3	-1	No	
Big Sagebrush-uplandHtrees	U-A SI	U-A SI	Summer-Cattle-Grazing-byYr	0.0063					3	No		
Big Sagebrush-uplandHtrees	U-A SI	U-A SI	Wild-Horse-Grazing	0.0130					3	2	No	
Big Sagebrush-uplandHtrees	U-A SI	U-A SHAS	AS-Invasion	0.0010					1	No		
Big Sagebrush-uplandHtrees	U-A Annual Spp	U-A Annual Spp	FeralHorse-Grazing	0.0130					2	2	No	
Big Sagebrush-uplandHtrees	U-A Annual Spp	U-A Annual Spp	Severe-Drought	0.0070					1	2	Yes	
Big Sagebrush-uplandHtrees	U-A Annual Spp	U-A Annual Spp	Wild-Horse-Grazing	0.0130					2	2	No	
Big Sagebrush-uplandHtrees	U-A SHAS	U-A SI	Competition	0.3330					No	3	No	
Big Sagebrush-uplandHtrees	U-A SHAS	U-A SHAS	Early-Spring-Cattle-Grazing-byYr	0.0500					3	No		
Big Sagebrush-uplandHtrees	U-A SHAS	U-A SHAS	Fall-Cattle-Grazing-byYr	0.0063					3	No		
Big Sagebrush-uplandHtrees	U-A SHAS	U-A SHAS	FeralHorse-Grazing	0.0130					3	2	No	
Big Sagebrush-uplandHtrees	U-A SHAS	U-A SHAS	Late-Spring-Cattle-Grazing-byYr	0.0500					3	1	No	
Big Sagebrush-uplandHtrees	U-A SHAS	U-A SHAS	ReplacementFire	0.0050					Yes			
Big Sagebrush-uplandHtrees	U-A SHAS	U-A SHAS	Severe-Drought	0.0070	0.1000				3	Yes		

Big Sagebrush-upland/trees	U-A-SHAS	U-A-SHAS	Severe-Drought	0.0070	0.9000	3	-1	No	
Big Sagebrush-upland/trees	U-A-SHAS	U-A-SHAS	Summer-Cattle-Grazing-byYr	0.0063		3		No	
Big Sagebrush-upland/trees	U-A-SHAS	U-A-SHAS	Wet-Year	0.0670				No	
Big Sagebrush-upland/trees	U-A-SHAS	U-A-SHAS	Wild-Horse-Grazing	0.0130		3	2	No	
Big Sagebrush-upland/trees	U-A-Unpalat. Forb	U-A-Unpalat. Forb	ReplacementFire	0.0100				Yes	
Big Sagebrush-upland/trees	U-B Depleted	U-A-Annual Spp	Ariga-Outbreak	0.0670	0.0050			Yes	
Big Sagebrush-upland/trees	U-B Depleted	U-A-Annual Spp	ReplacementFire	0.0100	0.5000			Yes	
Big Sagebrush-upland/trees	U-B Depleted	U-A-Early Shrub	Ariga-Outbreak	0.0670	0.0050			Yes	
Big Sagebrush-upland/trees	U-B Depleted	U-A-Early Shrub	ReplacementFire	0.0100	0.5000			Yes	
Big Sagebrush-upland/trees	U-B Depleted	U-A-Early Shrub	Severe-Drought	0.0070	0.1000			Yes	
Big Sagebrush-upland/trees	U-B Depleted	U-A-Early Shrub	ThinSeed	0.0000	0.1500			Yes	
Big Sagebrush-upland/trees	U-B Depleted	U-A-SI	ThinSeed	0.0000	0.7000			Yes	
Big Sagebrush-upland/trees	U-B Depleted	U-A-SHAS	ThinSeed	0.0000	0.1500			Yes	
Big Sagebrush-upland/trees	U-B Depleted	U-B Depleted	Ariga-Outbreak	0.0670	0.9900			Yes	
Big Sagebrush-upland/trees	U-B Depleted	U-B Depleted	Severe-Drought	0.0070	0.9000			Yes	
Big Sagebrush-upland/trees	U-B Depleted	U-B Exotic Forbs	Exotic-Invasion	0.0005				No	
Big Sagebrush-upland/trees	U-B Depleted	U-B-SA	AS-Invasion	0.0050				No	
Big Sagebrush-upland/trees	U-B Depleted	U-C-DP-Dense	Alternate-Succession	0.0010		39		Yes	
Big Sagebrush-upland/trees	U-B Early Shrub	U-A-Early Shrub	ReplacementFire	0.0100				Yes	
Big Sagebrush-upland/trees	U-B Early Shrub	U-A-Early Shrub	Spike-PlateauSeed	0.0000	0.3000			Yes	
Big Sagebrush-upland/trees	U-B Early Shrub	U-A-SI	Spike-PlateauSeed	0.0000	0.7000			Yes	
Big Sagebrush-upland/trees	U-B Exotic Forbs	U-B Exotic Forbs	Exotic-Invasion	0.0005				No	
Big Sagebrush-upland/trees	U-B Exotic Forbs	U-A-Annual Spp	ReplacementFire	0.0100	0.2500			Yes	
Big Sagebrush-upland/trees	U-B Exotic Forbs	U-B Exotic Forbs	Exotic-Control	0.0100	0.2000			Yes	
Big Sagebrush-upland/trees	U-B Exotic Forbs	U-A Exotic Forbs	ReplacementFire	0.0100	0.7500			Yes	
Big Sagebrush-upland/trees	U-B Exotic Forbs	U-A-SI	Exotic-Control	0.0100	0.8000			Yes	
Big Sagebrush-upland/trees	U-B Exotic Forbs	U-B Exotic Forbs	Early-Spring-Cattle-Grazing-byYr	0.0500				No	
Big Sagebrush-upland/trees	U-B Exotic Forbs	U-B Exotic Forbs	Fall-Cattle-Grazing-byYr	0.0063				No	
Big Sagebrush-upland/trees	U-B Exotic Forbs	U-B Exotic Forbs	FeralHorse-Grazing	0.0130				2	No
Big Sagebrush-upland/trees	U-B Exotic Forbs	U-B Exotic Forbs	Late-Spring-Cattle-Grazing-byYr	0.0500				1	No
Big Sagebrush-upland/trees	U-B Exotic Forbs	U-B Exotic Forbs	Summer-Cattle-Grazing-byYr	0.0063				No	
Big Sagebrush-upland/trees	U-B Exotic Forbs	U-B Exotic Forbs	Wild-Horse-Grazing	0.0130				2	No
Big Sagebrush-upland/trees	U-B-SA	U-A-Annual Spp	Ariga-Outbreak	0.0670	0.0100			5	Yes
Big Sagebrush-upland/trees	U-B-SA	U-A-Annual Spp	Dixie-HarrowPlateauSeed	0.0000	0.1000			Yes	
Big Sagebrush-upland/trees	U-B-SA	U-A-Annual Spp	Early-Spring-Cattle-Grazing-byYr	0.0500	0.0005			Yes	
Big Sagebrush-upland/trees	U-B-SA	U-A-Annual Spp	Fall-Cattle-Grazing-byYr	0.0063	0.0005			Yes	
Big Sagebrush-upland/trees	U-B-SA	U-A-Annual Spp	FeralHorse-Grazing	0.0130	0.0010			Yes	
Big Sagebrush-upland/trees	U-B-SA	U-A-Annual Spp	ReplacementFire	0.0100				1	Yes
Big Sagebrush-upland/trees	U-B-SA	U-A-Annual Spp	Severe-Drought	0.0070	0.1000			No	
Big Sagebrush-upland/trees	U-B-SA	U-A-Annual Spp	Wild-Horse-Grazing	0.0130	0.0010			Yes	
Big Sagebrush-upland/trees	U-B-SA	U-A-SI	Dixie-HarrowPlateauSeed	0.0000	0.8000			Yes	
Big Sagebrush-upland/trees	U-B-SA	U-A-SHAS	Dixie-HarrowPlateauSeed	0.0000	0.1000			Yes	
Big Sagebrush-upland/trees	U-B-SA	U-B Exotic Forbs	Exotic-Invasion	0.0005				No	
Big Sagebrush-upland/trees	U-B-SA	U-B-SA	Ariga-Outbreak	0.0670	0.9900			Yes	
Big Sagebrush-upland/trees	U-B-SA	U-B-SA	Early-Spring-Cattle-Grazing-byYr	0.0500	0.9995			No	
Big Sagebrush-upland/trees	U-B-SA	U-B-SA	Fall-Cattle-Grazing-byYr	0.0063	0.9995			No	
Big Sagebrush-upland/trees	U-B-SA	U-B-SA	FeralHorse-Grazing	0.0130	0.9990			No	
Big Sagebrush-upland/trees	U-B-SA	U-B-SA	Severe-Drought	0.0070	0.9000			Yes	
Big Sagebrush-upland/trees	U-B-SA	U-B-SA	Wild-Horse-Grazing	0.0130	0.9990			No	
Big Sagebrush-upland/trees	U-B-SA	U-C-SA-Dense	Alternate-Succession	0.0010		39		No	
Big Sagebrush-upland/trees	U-B-SAP	U-A-Annual Spp	Early-Spring-Cattle-Grazing-byYr	0.0500	0.0005			No	
Big Sagebrush-upland/trees	U-B-SAP	U-A-Annual Spp	Fall-Cattle-Grazing-byYr	0.0063	0.0005			No	
Big Sagebrush-upland/trees	U-B-SAP	U-A-Annual Spp	FeralHorse-Grazing	0.0130	0.0005			No	
Big Sagebrush-upland/trees	U-B-SAP	U-A-Annual Spp	Late-Spring-Cattle-Grazing-byYr	0.0500	0.0005			No	
Big Sagebrush-upland/trees	U-B-SAP	U-A-Annual Spp	Summer-Cattle-Grazing-byYr	0.0063	0.0005			No	
Big Sagebrush-upland/trees	U-B-SAP	U-A-Annual Spp	Wild-Horse-Grazing	0.0130	0.0005			No	
Big Sagebrush-upland/trees	U-B-SAP	U-A-SAP	Ariga-Outbreak	0.0670	0.0100			5	Yes
Big Sagebrush-upland/trees	U-B-SAP	U-A-SAP	ReplacementFire	0.0100				1	Yes
Big Sagebrush-upland/trees	U-B-SAP	U-A-SAP	Severe-Drought	0.0070	0.1000			Yes	
Big Sagebrush-upland/trees	U-B-SAP	U-B Exotic forbs	Exotic-Invasion	0.0005				No	
Big Sagebrush-upland/trees	U-B-SAP	U-B-SA	FeralHorse-Grazing	0.0130	0.0005			2	No
Big Sagebrush-upland/trees	U-B-SAP	U-B-SA	Late-Spring-Cattle-Grazing-byYr	0.0500	0.0005			1	No
Big Sagebrush-upland/trees	U-B-SAP	U-B-SA	Wild-Horse-Grazing	0.0130	0.0005			2	No
Big Sagebrush-upland/trees	U-B-SAP	U-B-SAP	Ariga-Outbreak	0.0670	0.9900			Yes	
Big Sagebrush-upland/trees	U-B-SAP	U-B-SAP	Early-Spring-Cattle-Grazing-byYr	0.0500	0.9995			No	
Big Sagebrush-upland/trees	U-B-SAP	U-B-SAP	Fall-Cattle-Grazing-byYr	0.0063	0.9995			1	No
Big Sagebrush-upland/trees	U-B-SAP	U-B-SAP	FeralHorse-Grazing	0.0130	0.9990			2	No
Big Sagebrush-upland/trees	U-B-SAP	U-B-SAP	Late-Spring-Cattle-Grazing-byYr	0.0500	0.9990			1	No
Big Sagebrush-upland/trees	U-B-SAP	U-B-SAP	Severe-Drought	0.0070	0.9000			Yes	
Big Sagebrush-upland/trees	U-B-SAP	U-B-SAP	Summer-Cattle-Grazing-byYr	0.0063	0.9995			No	
Big Sagebrush-upland/trees	U-B-SAP	U-B-SAP	Wild-Horse-Grazing	0.0130	0.9990			2	No
Big Sagebrush-upland/trees	U-B-SAP	U-C-SAP-Dense	Alternate-Succession	0.0010		39		Yes	
Big Sagebrush-upland/trees	U-B Seeded Native	E-Open	NaturalRecovery	0.3800				No	
Big Sagebrush-upland/trees	U-B Seeded Native	U-A-Bare Ground	Early-Spring-Cattle-Grazing-byYr	0.0500	0.0005			5	Yes
Big Sagebrush-upland/trees	U-B Seeded Native	U-A-Bare Ground	Fall-Cattle-Grazing-byYr	0.0063	0.0010			Yes	
Big Sagebrush-upland/trees	U-B Seeded Native	U-A-Bare Ground	FeralHorse-Grazing	0.0130	0.0005			Yes	
Big Sagebrush-upland/trees	U-B Seeded Native	U-A-Bare Ground	Summer-Cattle-Grazing-byYr	0.0063	0.0005			Yes	
Big Sagebrush-upland/trees	U-B Seeded Native	U-A-Bare Ground	Wild-Horse-Grazing	0.0130	0.0005			Yes	
Big Sagebrush-upland/trees	U-B Seeded Native	U-B-Early Shrub	FeralHorse-Grazing	0.0130	0.0005			Yes	
Big Sagebrush-upland/trees	U-B Seeded Native	U-B-Early Shrub	Late-Spring-Cattle-Grazing-byYr	0.0500	0.0005			Yes	
Big Sagebrush-upland/trees	U-B Seeded Native	U-B-Early Shrub	Severe-Drought	0.0070	0.1000			Yes	
Big Sagebrush-upland/trees	U-B Seeded Native	U-B-Early Shrub	Wild-Horse-Grazing	0.0130	0.0005			Yes	
Big Sagebrush-upland/trees	U-B Seeded Native	U-B Exotic Forbs	Exotic-Invasion	0.0005				No	
Big Sagebrush-upland/trees	U-B Seeded Native	U-B-SAP	AS-Invasion	0.0025				No	
Big Sagebrush-upland/trees	U-B Seeded Native	U-B Seeded Native	Early-Spring-Cattle-Grazing-byYr	0.0500	0.9995			No	
Big Sagebrush-upland/trees	U-B Seeded Native	U-B Seeded Native	Fall-Cattle-Grazing-byYr	0.0063	0.9990			1	No
Big Sagebrush-upland/trees	U-B Seeded Native	U-B Seeded Native	FeralHorse-Grazing	0.0130	0.9990			2	No
Big Sagebrush-upland/trees	U-B Seeded Native	U-B Seeded Native	Late-Spring-Cattle-Grazing-byYr	0.0500	0.9990			1	No
Big Sagebrush-upland/trees	U-B Seeded Native	U-B Seeded Native	ReplacementFire	0.0100				Yes	
Big Sagebrush-upland/trees	U-B Seeded Native	U-B Seeded Native	Severe-Drought	0.0070	0.9000			Yes	
Big Sagebrush-upland/trees	U-B Seeded Native	U-B Seeded Native	Summer-Cattle-Grazing-byYr	0.0063	0.9990			No	
Big Sagebrush-upland/trees	U-B Seeded Native	U-B Seeded Native	Wild-Horse-Grazing	0.0130	0.9990			2	No
Big Sagebrush-upland/trees	U-B-SI	E-Open	NaturalRecovery	0.0010				10	No
Big Sagebrush-upland/trees	U-B-SI	U-A-SI	ReplacementFire	0.0020				Yes	
Big Sagebrush-upland/trees	U-B-SI	U-A-SI	Severe-Drought	0.0070	0.1000			Yes	
Big Sagebrush-upland/trees	U-B-SI	U-B-SI	Early-Spring-Cattle-Grazing-byYr	0.0500				No	
Big Sagebrush-upland/trees	U-B-SI	U-B-SI	Fall-Cattle-Grazing-byYr	0.0063				No	
Big Sagebrush-upland/trees	U-B-SI	U-B-SI	FeralHorse-Grazing	0.0130				2	No
Big Sagebrush-upland/trees	U-B-SI	U-B-SI	Late-Spring-Cattle-Grazing-byYr	0.0500				1	No
Big Sagebrush-upland/trees	U-B-SI	U-B-SI	Severe-Drought	0.0070	0.9000			Yes	
Big Sagebrush-upland/trees	U-B-SI	U-B-SI	Summer-Cattle-Grazing-byYr	0.0063				No	
Big Sagebrush-upland/trees	U-B-SI	U-B-SI	Wild-Horse-Grazing	0.0130				2	No
Big Sagebrush-upland/trees	U-B-SI	U-B-SHAS	AS-Invasion	0.0010				No	
Big Sagebrush-upland/trees	U-B-SI	U-C-SI-Dense	Alternate-Succession	0.0010		39		Yes	
Big Sagebrush-upland/trees	U-B-SHAS	U-B-SHAS	ReplacementFire	0.0050				1	Yes
Big Sagebrush-upland/trees	U-B-SHAS	U-A-SHAS	Severe-Drought	0.0070	0.1000			Yes	
Big Sagebrush-upland/trees	U-B-SHAS	U-B-SI	Competition	0.3330				3	No
Big Sagebrush-upland/trees	U-B-SHAS	U-B-SHAS	Early-Spring-Cattle-Grazing-byYr	0.0500				No	
Big Sagebrush-upland/trees	U-B-SHAS	U-B-SHAS	Fall-Cattle-Grazing-byYr	0.0063				No	
Big Sagebrush-upland/trees	U-B-SHAS	U-B-SHAS	FeralHorse-Grazing	0.0130				2	No
Big Sagebrush-upland/trees	U-B-SHAS	U-B-SHAS	Late-Spring-Cattle-Grazing-byYr	0.0500				1	No
Big Sagebrush-upland/trees	U-B-SHAS	U-B-SHAS	Severe-Drought	0.0070	0.9000			Yes	
Big Sagebrush-upland/trees	U-B-SHAS	U-B-SHAS	Summer-Cattle-Grazing-byYr	0.0063				No	
Big Sagebrush-upland/trees	U-B-SHAS	U-B-SHAS	Web-Year	0.0670				No	
Big Sagebrush-upland/trees	U-B-SHAS	U-B-SHAS	Wild-Horse-Grazing	0.0130				2	No
Big Sagebrush-upland/trees	U-B-SHAS	U-C-SHAS-Dense	Alternate-Succession	0.0010		39		Yes	
Big Sagebrush-upland/trees	U-B Unpalat. Forb	U-A Unpalat. Forb	ReplacementFire	0.0100				Yes	

Big Sagebrush-uplandHtees	U-CSAP-Dense	U-CSAP-Dense	Early Spring-Cattle-Grazing-byYr	0.0500	0.9995	No
Big Sagebrush-uplandHtees	U-CSAP-Dense	U-CSAP-Dense	Fall-Cattle-Grazing-byYr	0.0063	0.9995	No
Big Sagebrush-uplandHtees	U-CSAP-Dense	U-CSAP-Dense	FeralHorse-Grazing	0.0130	0.9990	2 No
Big Sagebrush-uplandHtees	U-CSAP-Dense	U-CSAP-Dense	Late-Spring-Cattle-Grazing-byYr	0.0500	0.9990	1 No
Big Sagebrush-uplandHtees	U-CSAP-Dense	U-CSAP-Dense	Severe-Drought	0.0070	0.9000	Yes
Big Sagebrush-uplandHtees	U-CSAP-Dense	U-CSAP-Dense	Summer-Cattle-Grazing-byYr	0.0063	0.9995	No
Big Sagebrush-uplandHtees	U-CSAP-Dense	U-CSAP-Dense	Wild-Horse-Grazing	0.0130	0.9990	2 No
Big Sagebrush-uplandHtees	U-CSAP-Dense	U-D-SAP-Dense	Tree-Invasion	0.0080		80 Yes
Big Sagebrush-uplandHtees	U-CSI	CClosed	NaturalFireCrown	0.0100		No
Big Sagebrush-uplandHtees	U-CSI	U-ASI	Ariga-Outbreak	0.0670	0.0100	5 Yes
Big Sagebrush-uplandHtees	U-CSI	U-ASI	ReplacementFire	0.0020		Yes
Big Sagebrush-uplandHtees	U-CSI	U-BSI	Ariga-Outbreak	0.0670	0.0900	Yes
Big Sagebrush-uplandHtees	U-CSI	U-CSI	Severe-Drought	0.0070	0.1000	Yes
Big Sagebrush-uplandHtees	U-CSI	U-CSI	Ariga-Outbreak	0.0670	0.9000	Yes
Big Sagebrush-uplandHtees	U-CSI	U-CSI	Early Spring-Cattle-Grazing-byYr	0.0500		No
Big Sagebrush-uplandHtees	U-CSI	U-CSI	Fall-Cattle-Grazing-byYr	0.0063		No
Big Sagebrush-uplandHtees	U-CSI	U-CSI	FeralHorse-Grazing	0.0130		2 No
Big Sagebrush-uplandHtees	U-CSI	U-CSI	Late-Spring-Cattle-Grazing-byYr	0.0500		1 No
Big Sagebrush-uplandHtees	U-CSI	U-CSI	Severe-Drought	0.0070	0.9000	Yes
Big Sagebrush-uplandHtees	U-CSI	U-CSI	Summer-Cattle-Grazing-byYr	0.0063		No
Big Sagebrush-uplandHtees	U-CSI	U-CSI	Wild-Horse-Grazing	0.0130		2 No
Big Sagebrush-uplandHtees	U-CSI	U-CSHAS	AS-Invasion	0.0010		No
Big Sagebrush-uplandHtees	U-CSI	U-D-SI	Tree-Invasion	0.0080		80 Yes
Big Sagebrush-uplandHtees	U-CSHAS	U-A-SHAS	Ariga-Outbreak	0.0670	0.0100	5 Yes
Big Sagebrush-uplandHtees	U-CSHAS	U-CSHAS	ReplacementFire	0.0050		Yes
Big Sagebrush-uplandHtees	U-CSHAS	U-BSHAS	Ariga-Outbreak	0.0670	0.0900	Yes
Big Sagebrush-uplandHtees	U-CSHAS	U-BSHAS	Severe-Drought	0.0070	0.1000	Yes
Big Sagebrush-uplandHtees	U-CSHAS	U-CSI	Competition	0.3330		No
Big Sagebrush-uplandHtees	U-CSHAS	U-CSHAS	Ariga-Outbreak	0.0670	0.9000	Yes
Big Sagebrush-uplandHtees	U-CSHAS	U-CSHAS	Early Spring-Cattle-Grazing-byYr	0.0500		No
Big Sagebrush-uplandHtees	U-CSHAS	U-CSHAS	Fall-Cattle-Grazing-byYr	0.0063		No
Big Sagebrush-uplandHtees	U-CSHAS	U-CSHAS	FeralHorse-Grazing	0.0130		2 No
Big Sagebrush-uplandHtees	U-CSHAS	U-CSHAS	Late-Spring-Cattle-Grazing-byYr	0.0500		1 No
Big Sagebrush-uplandHtees	U-CSHAS	U-CSHAS	Severe-Drought	0.0070	0.9000	Yes
Big Sagebrush-uplandHtees	U-CSHAS	U-CSHAS	Summer-Cattle-Grazing-byYr	0.0063		No
Big Sagebrush-uplandHtees	U-CSHAS	U-CSHAS	Wild-Horse-Grazing	0.0670		2 No
Big Sagebrush-uplandHtees	U-CSHAS	U-D-SHAS	Tree-Invasion	0.0080		80 Yes
Big Sagebrush-uplandHtees	U-CSHAS-Dense	U-A-SHAS	Ariga-Outbreak	0.0670	0.0100	5 Yes
Big Sagebrush-uplandHtees	U-CSHAS-Dense	U-A-SHAS	ReplacementFire	0.0050		Yes
Big Sagebrush-uplandHtees	U-CSHAS-Dense	U-BSHAS	Ariga-Outbreak	0.0670	0.0900	Yes
Big Sagebrush-uplandHtees	U-CSHAS-Dense	U-BSHAS	Severe-Drought	0.0070	0.1000	Yes
Big Sagebrush-uplandHtees	U-CSHAS-Dense	U-CSHAS	Competition	0.3330		No
Big Sagebrush-uplandHtees	U-CSHAS-Dense	U-CSHAS-Dense	Ariga-Outbreak	0.0670	0.9000	Yes
Big Sagebrush-uplandHtees	U-CSHAS-Dense	U-CSHAS-Dense	Early Spring-Cattle-Grazing-byYr	0.0500		No
Big Sagebrush-uplandHtees	U-CSHAS-Dense	U-CSHAS-Dense	Fall-Cattle-Grazing-byYr	0.0063		No
Big Sagebrush-uplandHtees	U-CSHAS-Dense	U-CSHAS-Dense	FeralHorse-Grazing	0.0130		2 No
Big Sagebrush-uplandHtees	U-CSHAS-Dense	U-CSHAS-Dense	Late-Spring-Cattle-Grazing-byYr	0.0500		1 No
Big Sagebrush-uplandHtees	U-CSHAS-Dense	U-CSHAS-Dense	Severe-Drought	0.0070	0.9000	Yes
Big Sagebrush-uplandHtees	U-CSHAS-Dense	U-CSHAS-Dense	Summer-Cattle-Grazing-byYr	0.0063		No
Big Sagebrush-uplandHtees	U-CSHAS-Dense	U-CSHAS-Dense	Wild-Horse-Grazing	0.0670		2 No
Big Sagebrush-uplandHtees	U-CSHAS-Dense	U-D-SHAS-Dense	Tree-Invasion	0.0080		80 Yes
Big Sagebrush-uplandHtees	U-CDense	CDense	NaturalFireCrown	0.0100		No
Big Sagebrush-uplandHtees	U-CSI-Dense	U-ASI	Ariga-Outbreak	0.0670	0.0100	5 Yes
Big Sagebrush-uplandHtees	U-CSI-Dense	U-ASI	ReplacementFire	0.0020		Yes
Big Sagebrush-uplandHtees	U-CSI-Dense	U-BSI	Ariga-Outbreak	0.0670	0.0900	Yes
Big Sagebrush-uplandHtees	U-CSI-Dense	U-BSI	Severe-Drought	0.0070	0.1000	Yes
Big Sagebrush-uplandHtees	U-CSI-Dense	U-CSHAS-Dense	AS-Invasion	0.0010		No
Big Sagebrush-uplandHtees	U-CSI-Dense	U-CSI-Dense	Ariga-Outbreak	0.0670	0.9000	Yes
Big Sagebrush-uplandHtees	U-CSI-Dense	U-CSI-Dense	Early Spring-Cattle-Grazing-byYr	0.0500		No
Big Sagebrush-uplandHtees	U-CSI-Dense	U-CSI-Dense	Fall-Cattle-Grazing-byYr	0.0063		No
Big Sagebrush-uplandHtees	U-CSI-Dense	U-CSI-Dense	FeralHorse-Grazing	0.0130		2 No
Big Sagebrush-uplandHtees	U-CSI-Dense	U-CSI-Dense	Late-Spring-Cattle-Grazing-byYr	0.0500		1 No
Big Sagebrush-uplandHtees	U-CSI-Dense	U-CSI-Dense	Severe-Drought	0.0070	0.9000	Yes
Big Sagebrush-uplandHtees	U-CSI-Dense	U-CSI-Dense	Summer-Cattle-Grazing-byYr	0.0063		No
Big Sagebrush-uplandHtees	U-CSI-Dense	U-CSI-Dense	Wild-Horse-Grazing	0.0130		2 No
Big Sagebrush-uplandHtees	U-CSI-Dense	U-D-SI-Dense	Tree-Invasion	0.0080		80 Yes
Big Sagebrush-uplandHtees	U-Uppal: Forb	U-Uppal: Forb	ReplacementFire	0.0100		Yes
Big Sagebrush-uplandHtees	U-Uppal: Forb	U-Uppal: Forb	Tree-Invasion	0.0080		80 Yes
Big Sagebrush-uplandHtees	U-D-Depleted	U-A-Annual Spp	ReplacementFire	0.0100	0.5000	Yes
Big Sagebrush-uplandHtees	U-D-Depleted	U-A-Early Shrub	ReplacementFire	0.0100	0.5000	Yes
Big Sagebrush-uplandHtees	U-D-Depleted	U-A-Early Shrub	ThinSeed	0.0000	0.1000	Yes
Big Sagebrush-uplandHtees	U-D-Depleted	U-ASI	ThinSeed	0.0000	0.8000	Yes
Big Sagebrush-uplandHtees	U-D-Depleted	U-A-SHAS	ThinSeed	0.0000	0.1000	Yes
Big Sagebrush-uplandHtees	U-D-Depleted	U-C-Depleted	Severe-Drought	0.0070	0.1000	No
Big Sagebrush-uplandHtees	U-D-Depleted	U-C-Exotic Forb	Exotic-Invasion	0.0005		No
Big Sagebrush-uplandHtees	U-D-Depleted	U-D-Depleted	Ariga-Outbreak	0.0670		5 No
Big Sagebrush-uplandHtees	U-D-Depleted	U-D-Depleted	Severe-Drought	0.0070	0.9000	Yes
Big Sagebrush-uplandHtees	U-D-Depleted	U-D-SA	AS-Invasion	0.0050		No
Big Sagebrush-uplandHtees	U-D-DP-Dense	U-A-Annual Spp	ReplacementFire	0.0100	0.5000	Yes
Big Sagebrush-uplandHtees	U-D-DP-Dense	U-A-Early Shrub	ReplacementFire	0.0100	0.5000	Yes
Big Sagebrush-uplandHtees	U-D-DP-Dense	U-A-Early Shrub	ThinSeed	0.0000	0.1000	Yes
Big Sagebrush-uplandHtees	U-D-DP-Dense	U-ASI	ThinSeed	0.0000	0.8000	Yes
Big Sagebrush-uplandHtees	U-D-DP-Dense	U-A-SHAS	ThinSeed	0.0000	0.1000	Yes
Big Sagebrush-uplandHtees	U-D-DP-Dense	U-C-DP-Dense	Severe-Drought	0.0070	0.1000	Yes
Big Sagebrush-uplandHtees	U-D-DP-Dense	U-C-Exotic Forb	Exotic-Invasion	0.0005		No
Big Sagebrush-uplandHtees	U-D-DP-Dense	U-D-DP-Dense	Ariga-Outbreak	0.0670		5 No
Big Sagebrush-uplandHtees	U-D-DP-Dense	U-D-DP-Dense	Severe-Drought	0.0070	0.9000	Yes
Big Sagebrush-uplandHtees	U-D-DP-Dense	U-D-SA-Dense	AS-Invasion	0.0025		No
Big Sagebrush-uplandHtees	U-D-SA	U-A-Annual Spp	Dixie-HarrowPlateauSeed	0.0000	0.1000	Yes
Big Sagebrush-uplandHtees	U-D-SA	U-A-Annual Spp	Early Spring-Cattle-Grazing-byYr	0.0500	0.0005	No
Big Sagebrush-uplandHtees	U-D-SA	U-A-Annual Spp	Fall-Cattle-Grazing-byYr	0.0063	0.0005	No
Big Sagebrush-uplandHtees	U-D-SA	U-A-Annual Spp	FeralHorse-Grazing	0.0130	0.0010	2 No
Big Sagebrush-uplandHtees	U-D-SA	U-A-Annual Spp	ReplacementFire	0.0150		Yes
Big Sagebrush-uplandHtees	U-D-SA	U-A-Annual Spp	Wild-Horse-Grazing	0.0130	0.0010	2 No
Big Sagebrush-uplandHtees	U-D-SA	U-ASI	Dixie-HarrowPlateauSeed	0.0000	0.8000	Yes
Big Sagebrush-uplandHtees	U-D-SA	U-A-SHAS	Dixie-HarrowPlateauSeed	0.0000	0.1000	Yes
Big Sagebrush-uplandHtees	U-D-SA	U-C-Exotic Forb	Exotic-Invasion	0.0005		No
Big Sagebrush-uplandHtees	U-D-SA	U-CSA	Severe-Drought	0.0070	0.1000	No
Big Sagebrush-uplandHtees	U-D-SA	U-CSA	Small-Tree-Lopping	0.0100		Yes
Big Sagebrush-uplandHtees	U-D-SA	U-D-SA	Ariga-Outbreak	0.0670		5 No
Big Sagebrush-uplandHtees	U-D-SA	U-D-SA	Early Spring-Cattle-Grazing-byYr	0.0500	0.9995	No
Big Sagebrush-uplandHtees	U-D-SA	U-D-SA	Fall-Cattle-Grazing-byYr	0.0063	0.9995	No
Big Sagebrush-uplandHtees	U-D-SA	U-D-SA	FeralHorse-Grazing	0.0130	0.9990	2 No
Big Sagebrush-uplandHtees	U-D-SA	U-D-SA	Severe-Drought	0.0070	0.9000	Yes
Big Sagebrush-uplandHtees	U-D-SA	U-D-SA	Wild-Horse-Grazing	0.0130	0.9990	2 No
Big Sagebrush-uplandHtees	U-D-SA-Dense	U-A-Annual Spp	Dixie-HarrowPlateauSeed	0.0000	0.1000	Yes
Big Sagebrush-uplandHtees	U-D-SA-Dense	U-A-Annual Spp	Early Spring-Cattle-Grazing-byYr	0.0500	0.0005	No
Big Sagebrush-uplandHtees	U-D-SA-Dense	U-A-Annual Spp	Fall-Cattle-Grazing-byYr	0.0063	0.0005	No
Big Sagebrush-uplandHtees	U-D-SA-Dense	U-A-Annual Spp	FeralHorse-Grazing	0.0130	0.0010	No
Big Sagebrush-uplandHtees	U-D-SA-Dense	U-A-Annual Spp	ReplacementFire	0.0150		Yes
Big Sagebrush-uplandHtees	U-D-SA-Dense	U-A-Annual Spp	Wild-Horse-Grazing	0.0130	0.0010	No
Big Sagebrush-uplandHtees	U-D-SA-Dense	U-ASI	Dixie-HarrowPlateauSeed	0.0000	0.8000	Yes
Big Sagebrush-uplandHtees	U-D-SA-Dense	U-A-SHAS	Dixie-HarrowPlateauSeed	0.0000	0.1000	Yes
Big Sagebrush-uplandHtees	U-D-SA-Dense	U-CSA-Dense	Severe-Drought	0.0070	0.1000	Yes
Big Sagebrush-uplandHtees	U-D-SA-Dense	U-D-SA	Ariga-Outbreak	0.0670		5 No
Big Sagebrush-uplandHtees	U-D-SA-Dense	U-D-SA-Dense	Early Spring-Cattle-Grazing-byYr	0.0500	0.9995	No

Big Sagebrush-upland/trees	U-D-SA-Dense	U-D-SA-Dense	Exotic-Invasion	0.0005	No
Big Sagebrush-upland/trees	U-D-SA-Dense	U-D-SA-Dense	Fall-Cattle-Grazing-byYr	0.0063	0.9995
Big Sagebrush-upland/trees	U-D-SA-Dense	U-D-SA-Dense	FeralHorse-Grazing	0.0130	0.9990
Big Sagebrush-upland/trees	U-D-SA-Dense	U-D-SA-Dense	Severe Drought	0.0070	0.9000
Big Sagebrush-upland/trees	U-D-SA-Dense	U-D-SA-Dense	Wild-Horse-Grazing	0.0130	0.9990
Big Sagebrush-upland/trees	U-D-SAP	U-A-Annual Spp	Early-Spring-Cattle-Grazing-byYr	0.0500	0.0005
Big Sagebrush-upland/trees	U-D-SAP	U-A-Annual Spp	Fall-Cattle-Grazing-byYr	0.0063	0.0005
Big Sagebrush-upland/trees	U-D-SAP	U-A-Annual Spp	FeralHorse-Grazing	0.0130	0.0005
Big Sagebrush-upland/trees	U-D-SAP	U-A-Annual Spp	Late-Spring-Cattle-Grazing-byYr	0.0500	0.0005
Big Sagebrush-upland/trees	U-D-SAP	U-A-Annual Spp	Summer-Cattle-Grazing-byYr	0.0063	0.0005
Big Sagebrush-upland/trees	U-D-SAP	U-A-Annual Spp	Wild-Horse-Grazing	0.0130	0.0005
Big Sagebrush-upland/trees	U-D-SAP	U-A-SAP	ReplacementFire	0.0100	Yes
Big Sagebrush-upland/trees	U-D-SAP	U-C-Exotic Forbs	Exotic-Invasion	0.0005	No
Big Sagebrush-upland/trees	U-D-SAP	U-CSAP	Severe Drought	0.0070	0.1000
Big Sagebrush-upland/trees	U-D-SAP	U-CSAP	Small-Tree-Lopping	0.0100	Yes
Big Sagebrush-upland/trees	U-D-SAP	U-CSAP	Small-Tree-Lopping	0.0100	Yes
Big Sagebrush-upland/trees	U-D-SAP	U-D-SA	FeralHorse-Grazing	0.0130	0.0005
Big Sagebrush-upland/trees	U-D-SAP	U-D-SA	Late-Spring-Cattle-Grazing-byYr	0.0500	0.0005
Big Sagebrush-upland/trees	U-D-SAP	U-D-SA	Wild-Horse-Grazing	0.0130	0.0005
Big Sagebrush-upland/trees	U-D-SAP	U-D-SAP	Ariga-Outbreak	0.0670	5 No
Big Sagebrush-upland/trees	U-D-SAP	U-D-SAP	Early-Spring-Cattle-Grazing-byYr	0.0500	0.9995
Big Sagebrush-upland/trees	U-D-SAP	U-D-SAP	Fall-Cattle-Grazing-byYr	0.0063	0.9995
Big Sagebrush-upland/trees	U-D-SAP	U-D-SAP	FeralHorse-Grazing	0.0130	0.9990
Big Sagebrush-upland/trees	U-D-SAP	U-D-SAP	Late-Spring-Cattle-Grazing-byYr	0.0500	0.9990
Big Sagebrush-upland/trees	U-D-SAP	U-D-SAP	Severe Drought	0.0070	0.9000
Big Sagebrush-upland/trees	U-D-SAP	U-D-SAP	Summer-Cattle-Grazing-byYr	0.0063	0.9995
Big Sagebrush-upland/trees	U-D-SAP	U-D-SAP	Wild-Horse-Grazing	0.0130	0.9990
Big Sagebrush-upland/trees	U-D-SAP-Dense	U-A-Annual Spp	Early-Spring-Cattle-Grazing-byYr	0.0500	0.0005
Big Sagebrush-upland/trees	U-D-SAP-Dense	U-A-Annual Spp	Fall-Cattle-Grazing-byYr	0.0063	0.0005
Big Sagebrush-upland/trees	U-D-SAP-Dense	U-A-Annual Spp	FeralHorse-Grazing	0.0130	0.0005
Big Sagebrush-upland/trees	U-D-SAP-Dense	U-A-Annual Spp	Late-Spring-Cattle-Grazing-byYr	0.0500	0.0005
Big Sagebrush-upland/trees	U-D-SAP-Dense	U-A-Annual Spp	Summer-Cattle-Grazing-byYr	0.0063	0.0005
Big Sagebrush-upland/trees	U-D-SAP-Dense	U-A-Annual Spp	Wild-Horse-Grazing	0.0130	0.0005
Big Sagebrush-upland/trees	U-D-SAP-Dense	U-A-SAP	ReplacementFire	0.0100	Yes
Big Sagebrush-upland/trees	U-D-SAP-Dense	U-C-Exotic Forbs	Exotic-Invasion	0.0005	No
Big Sagebrush-upland/trees	U-D-SAP-Dense	U-CSAP-Dense	Severe Drought	0.0070	0.1000
Big Sagebrush-upland/trees	U-D-SAP-Dense	U-CSAP-Dense	Small-Tree-Lopping	0.0100	Yes
Big Sagebrush-upland/trees	U-D-SAP-Dense	U-CSAP-Dense	Small-Tree-Lopping	0.0100	Yes
Big Sagebrush-upland/trees	U-D-SAP-Dense	U-D-SA-Dense	Late-Spring-Cattle-Grazing-byYr	0.0500	0.0005
Big Sagebrush-upland/trees	U-D-SAP-Dense	U-D-SA-Dense	Wild-Horse-Grazing	0.0130	0.0050
Big Sagebrush-upland/trees	U-D-SAP-Dense	U-D-SAP	Early-Spring-Cattle-Grazing-byYr	0.0500	0.9995
Big Sagebrush-upland/trees	U-D-SAP-Dense	U-D-SAP	Fall-Cattle-Grazing-byYr	0.0063	0.9995
Big Sagebrush-upland/trees	U-D-SAP-Dense	U-D-SAP	FeralHorse-Grazing	0.0130	0.9990
Big Sagebrush-upland/trees	U-D-SAP-Dense	U-D-SAP	Late-Spring-Cattle-Grazing-byYr	0.0500	0.9990
Big Sagebrush-upland/trees	U-D-SAP-Dense	U-D-SAP	Severe Drought	0.0070	0.9000
Big Sagebrush-upland/trees	U-D-SAP-Dense	U-D-SAP	Summer-Cattle-Grazing-byYr	0.0063	0.9995
Big Sagebrush-upland/trees	U-D-SAP-Dense	U-D-SAP	Wild-Horse-Grazing	0.0130	0.9990
Big Sagebrush-upland/trees	U-D-SAP-Dense	U-D-SAP-Dense	Ariga-Outbreak	0.0670	5 No
Big Sagebrush-upland/trees	U-D-SAP-Dense	U-D-SAP-Dense	FeralHorse-Grazing	0.0130	0.0005
Big Sagebrush-upland/trees	U-D-SI	D-Dense	NaturalRecovery	0.1000	10
Big Sagebrush-upland/trees	U-D-SI	U-ASI	ReplacementFire	0.0020	Yes
Big Sagebrush-upland/trees	U-D-SI	U-BSI	Severe Drought	0.0070	0.1000
Big Sagebrush-upland/trees	U-D-SI	U-CSHAS	AS-Invasion	0.0010	No
Big Sagebrush-upland/trees	U-D-SI	U-CSHAS	Ariga-Outbreak	0.0670	5 No
Big Sagebrush-upland/trees	U-D-SI	U-D-SI	Early-Spring-Cattle-Grazing-byYr	0.0500	No
Big Sagebrush-upland/trees	U-D-SI	U-D-SI	Fall-Cattle-Grazing-byYr	0.0063	No
Big Sagebrush-upland/trees	U-D-SI	U-D-SI	FeralHorse-Grazing	0.0130	2 No
Big Sagebrush-upland/trees	U-D-SI	U-D-SI	Late-Spring-Cattle-Grazing-byYr	0.0500	1 No
Big Sagebrush-upland/trees	U-D-SI	U-D-SI	Severe Drought	0.0070	0.9000
Big Sagebrush-upland/trees	U-D-SI	U-D-SI	Summer-Cattle-Grazing-byYr	0.0063	No
Big Sagebrush-upland/trees	U-D-SI	U-D-SI	Wild-Horse-Grazing	0.0130	2 No
Big Sagebrush-upland/trees	U-D-SHAS	U-ASHAS	ReplacementFire	0.0050	Yes
Big Sagebrush-upland/trees	U-D-SHAS	U-CSI	Competition	0.3330	No
Big Sagebrush-upland/trees	U-D-SHAS	U-CSHAS	Severe Drought	0.0070	0.1000
Big Sagebrush-upland/trees	U-D-SHAS	U-D-SHAS	Ariga-Outbreak	0.0670	5 No
Big Sagebrush-upland/trees	U-D-SHAS	U-D-SHAS	Early-Spring-Cattle-Grazing-byYr	0.0500	No
Big Sagebrush-upland/trees	U-D-SHAS	U-D-SHAS	Fall-Cattle-Grazing-byYr	0.0063	No
Big Sagebrush-upland/trees	U-D-SHAS	U-D-SHAS	FeralHorse-Grazing	0.0130	2 No
Big Sagebrush-upland/trees	U-D-SHAS	U-D-SHAS	Late-Spring-Cattle-Grazing-byYr	0.0500	1 No
Big Sagebrush-upland/trees	U-D-SHAS	U-D-SHAS	Severe Drought	0.0070	0.9000
Big Sagebrush-upland/trees	U-D-SHAS	U-D-SHAS	Summer-Cattle-Grazing-byYr	0.0063	No
Big Sagebrush-upland/trees	U-D-SHAS	U-D-SHAS	Web-Year	0.0670	No
Big Sagebrush-upland/trees	U-D-SHAS	U-D-SHAS	Wild-Horse-Grazing	0.0130	2 No
Big Sagebrush-upland/trees	U-D-SHAS-Dense	U-ASHAS-Dense	ReplacementFire	0.0050	Yes
Big Sagebrush-upland/trees	U-D-SHAS-Dense	U-CSHAS-Dense	Severe Drought	0.0070	0.1000
Big Sagebrush-upland/trees	U-D-SHAS-Dense	U-D-SHAS-Dense	Ariga-Outbreak	0.0670	5 No
Big Sagebrush-upland/trees	U-D-SHAS-Dense	U-D-SHAS-Dense	Early-Spring-Cattle-Grazing-byYr	0.0500	No
Big Sagebrush-upland/trees	U-D-SHAS-Dense	U-D-SHAS-Dense	Fall-Cattle-Grazing-byYr	0.0063	No
Big Sagebrush-upland/trees	U-D-SHAS-Dense	U-D-SHAS-Dense	FeralHorse-Grazing	0.0130	2 No
Big Sagebrush-upland/trees	U-D-SHAS-Dense	U-D-SHAS-Dense	Late-Spring-Cattle-Grazing-byYr	0.0500	1 No
Big Sagebrush-upland/trees	U-D-SHAS-Dense	U-D-SHAS-Dense	Severe Drought	0.0070	0.9000
Big Sagebrush-upland/trees	U-D-SHAS-Dense	U-D-SHAS-Dense	Summer-Cattle-Grazing-byYr	0.0063	Yes
Big Sagebrush-upland/trees	U-D-SHAS-Dense	U-D-SHAS-Dense	Web-Year	0.0670	No
Big Sagebrush-upland/trees	U-D-SHAS-Dense	U-D-SHAS-Dense	Wild-Horse-Grazing	0.0130	2 No
Big Sagebrush-upland/trees	U-D-SI-Dense	U-D-SI-Dense	Competition	0.3330	No
Big Sagebrush-upland/trees	U-D-SI-Dense	C-Dense	NaturalRecovery	0.1000	No
Big Sagebrush-upland/trees	U-D-SI-Dense	U-ASI	ReplacementFire	0.0020	10
Big Sagebrush-upland/trees	U-D-SI-Dense	U-CSI-Dense	Severe Drought	0.0070	0.1000
Big Sagebrush-upland/trees	U-D-SI-Dense	U-D-SHAS-Dense	AS-Invasion	0.0010	No
Big Sagebrush-upland/trees	U-D-SI-Dense	U-D-SI-Dense	Ariga-Outbreak	0.0670	5 No
Big Sagebrush-upland/trees	U-D-SI-Dense	U-D-SI-Dense	Early-Spring-Cattle-Grazing-byYr	0.0500	No
Big Sagebrush-upland/trees	U-D-SI-Dense	U-D-SI-Dense	Fall-Cattle-Grazing-byYr	0.0063	No
Big Sagebrush-upland/trees	U-D-SI-Dense	U-D-SI-Dense	FeralHorse-Grazing	0.0130	2 No
Big Sagebrush-upland/trees	U-D-SI-Dense	U-D-SI-Dense	Late-Spring-Cattle-Grazing-byYr	0.0500	1 No
Big Sagebrush-upland/trees	U-D-SI-Dense	U-D-SI-Dense	Severe Drought	0.0070	0.9000
Big Sagebrush-upland/trees	U-D-SI-Dense	U-D-SI-Dense	Summer-Cattle-Grazing-byYr	0.0063	Yes
Big Sagebrush-upland/trees	U-D-SI-Dense	U-D-SI-Dense	Web-Year	0.0670	No
Big Sagebrush-upland/trees	U-D-SI-Dense	U-D-SI-Dense	Wild-Horse-Grazing	0.0130	2 No
Big Sagebrush-upland/trees	U-E Unpalat. Forb	U-A Unpalat. Forb	ReplacementFire	0.0100	Yes
Big Sagebrush-upland/trees	U-E TEA	U-A Annual Spp	ArnalReed+Hudticate+Plateau	0.0100	0.1000
Big Sagebrush-upland/trees	U-E TEA	U-A Annual Spp	ReplacementFire	0.0080	Yes
Big Sagebrush-upland/trees	U-E TEA	U-A Annual Spp	Severe Drought	0.0070	0.1000
Big Sagebrush-upland/trees	U-E TEA	U-ASI	ArnalReed+Hudticate+Plateau	0.0100	0.8000
Big Sagebrush-upland/trees	U-E TEA	U-ASHAS	ArnalReed+Hudticate+Plateau	0.0100	0.1000
Big Sagebrush-upland/trees	U-E TEA	U-E TEA	Severe Drought	0.0070	0.9000
Big Sagebrush-upland/trees	U-E Unpalat. Forb	U-A Unpalat. Forb	ReplacementFire	0.0100	Yes
Black Sagebrush	A-All	A-All	Early-Spring-Cattle-Grazing-byYr	0.0250	0.9995
Black Sagebrush	A-All	A-All	Fall-Cattle-Grazing-byYr	0.0032	0.9995
Black Sagebrush	A-All	A-All	FeralHorse-Grazing	0.0080	0.9990
Black Sagebrush	A-All	A-All	Late-Spring-Cattle-Grazing-byYr	0.0250	0.9990
Black Sagebrush	A-All	A-All	ReplacementFire	0.0040	Yes
Black Sagebrush	A-All	A-All	Summer-Cattle-Grazing-byYr	0.0032	0.9995
Black Sagebrush	A-All	A-All	Wild-Horse-Grazing	0.0080	0.9990
Black Sagebrush	A-All	U-A Bare Ground	Early-Spring-Cattle-Grazing-byYr	0.0250	0.0005
Black Sagebrush	A-All	U-A Bare Ground	Fall-Cattle-Grazing-byYr	0.0032	0.0005
Black Sagebrush	A-All	U-A Bare Ground	FeralHorse-Grazing	0.0080	0.0005
Black Sagebrush	A-All	U-A Bare Ground	Late-Spring-Cattle-Grazing-byYr	0.0250	0.0005
Black Sagebrush	A-All	U-A Bare Ground	Summer-Cattle-Grazing-byYr	0.0032	0.0005
Black Sagebrush	A-All	U-A Bare Ground	Wild-Horse-Grazing	0.0080	0.0005

Black Sagebrush	A:All	U-A: Early Shrub	FeralHorse-Grazing	0.0080	0.0005				Yes
Black Sagebrush	A:All	U-A: Early Shrub	Late-Spring-Cattle-Grazing-byYr	0.0250	0.0005	3			Yes
Black Sagebrush	A:All	U-A: Early Shrub	Wild-Horse-Grazing	0.0080	0.0005				Yes
Black Sagebrush	A:All	U-A:SAP	AS-Invasion	0.0025					No
Black Sagebrush	B:Open	A:All	Replacem entFire	0.0063					Yes
Black Sagebrush	B:Open	A:All	Severe-Drought	0.0070	0.1000				Yes
Black Sagebrush	B:Open	B:Open	EarlySpring-Cattle-Grazing-byYr	0.0250	0.9995				No
Black Sagebrush	B:Open	B:Open	Fall-Cattle-Grazing-byYr	0.0032	0.9995				No
Black Sagebrush	B:Open	B:Open	FeralHorse-Grazing	0.0080	0.9990				2 No
Black Sagebrush	B:Open	B:Open	Late-Spring-Cattle-Grazing-byYr	0.0250	0.9990				1 No
Black Sagebrush	B:Open	B:Open	Severe-Drought	0.0070	0.9000				Yes
Black Sagebrush	B:Open	B:Open	Summer-Cattle-Grazing-byYr	0.0032	0.9995				No
Black Sagebrush	B:Open	B:Open	Wild-Horse-Grazing	0.0080	0.9990				2 No
Black Sagebrush	B:Open	U-A: Bare Ground	EarlySpring-Cattle-Grazing-byYr	0.0250	0.0005				Yes
Black Sagebrush	B:Open	U-A: Bare Ground	Fall-Cattle-Grazing-byYr	0.0032	0.0005				Yes
Black Sagebrush	B:Open	U-A: Bare Ground	FeralHorse-Grazing	0.0080	0.0005				Yes
Black Sagebrush	B:Open	U-A: Bare Ground	Late-Spring-Cattle-Grazing-byYr	0.0250	0.0005				Yes
Black Sagebrush	B:Open	U-A: Bare Ground	Summer-Cattle-Grazing-byYr	0.0032	0.0005				Yes
Black Sagebrush	B:Open	U-A: Bare Ground	Wild-Horse-Grazing	0.0080	0.0005				Yes
Black Sagebrush	B:Open	U-A: Early Shrub	FeralHorse-Grazing	0.0080	0.0005				Yes
Black Sagebrush	B:Open	U-A: Early Shrub	Wild-Horse-Grazing	0.0080	0.0005				Yes
Black Sagebrush	B:Open	U-B: Early Shrub	Late-Spring-Cattle-Grazing-byYr	0.0250	0.0005				Yes
Black Sagebrush	B:Open	U-B: SAP	AS-Invasion	0.0025					No
Black Sagebrush	C:Closed	A:All	Replacem entFire	0.0067					Yes
Black Sagebrush	C:Closed	B:Open	Severe-Drought	0.0070	0.1000				Yes
Black Sagebrush	C:Closed	C:Closed	EarlySpring-Cattle-Grazing-byYr	0.0250	0.9995				No
Black Sagebrush	C:Closed	C:Closed	Fall-Cattle-Grazing-byYr	0.0032	0.9995				No
Black Sagebrush	C:Closed	C:Closed	FeralHorse-Grazing	0.0080	0.9990				2 No
Black Sagebrush	C:Closed	C:Closed	Late-Spring-Cattle-Grazing-byYr	0.0250	0.9990				1 No
Black Sagebrush	C:Closed	C:Closed	Severe-Drought	0.0070	0.9000				Yes
Black Sagebrush	C:Closed	C:Closed	Summer-Cattle-Grazing-byYr	0.0032	0.9990				No
Black Sagebrush	C:Closed	C:Closed	Wild-Horse-Grazing	0.0080	0.9990				2 No
Black Sagebrush	C:Closed	D:Open	Tree-Invasion	0.0067		121			No
Black Sagebrush	C:Closed	U-A: Bare Ground	EarlySpring-Cattle-Grazing-byYr	0.0250	0.0005				Yes
Black Sagebrush	C:Closed	U-A: Bare Ground	Fall-Cattle-Grazing-byYr	0.0032	0.0005				No
Black Sagebrush	C:Closed	U-A: Bare Ground	FeralHorse-Grazing	0.0080	0.0005				Yes
Black Sagebrush	C:Closed	U-A: Bare Ground	Late-Spring-Cattle-Grazing-byYr	0.0250	0.0005				Yes
Black Sagebrush	C:Closed	U-A: Bare Ground	Summer-Cattle-Grazing-byYr	0.0032	0.0005				Yes
Black Sagebrush	C:Closed	U-A: Bare Ground	Wild-Horse-Grazing	0.0080	0.0005				Yes
Black Sagebrush	C:Closed	U-C: Depleted	FeralHorse-Grazing	0.0080	0.0005				Yes
Black Sagebrush	C:Closed	U-C: Depleted	Late-Spring-Cattle-Grazing-byYr	0.0250	0.0005				1 No
Black Sagebrush	C:Closed	U-C: Depleted	Wild-Horse-Grazing	0.0080	0.0005				Yes
Black Sagebrush	C:Closed	U-C: SAP	AS-Invasion	0.0025					No
Black Sagebrush	D:Open	A:All	Chainsaw-Thinning	0.0100	0.1000				Yes
Black Sagebrush	D:Open	A:All	Replacem entFire	0.0067					Yes
Black Sagebrush	D:Open	B:Open	Chainsaw-Thinning	0.0100	0.9000				Yes
Black Sagebrush	D:Open	B:Open	Severe-Drought	0.0070	0.1000				Yes
Black Sagebrush	D:Open	D:Open	Severe-Drought	0.0070	0.9000				1 No
Black Sagebrush	D:Open	U-D: TEA	AS-Invasion	0.0025					No
Black Sagebrush	D:Open	U-D: TEA	Tree-Encroachment	0.0200		250			No
Black Sagebrush	U-A: Annual Spp	U-A: Annual Spp	BLM-Post-Fire-Rahb	0.0100	0.8000		3		1
Black Sagebrush	U-A: Annual Spp	U-A: Annual Spp	EarlySpring-Cattle-Grazing-byYr	0.0250	0.0005	3			Yes
Black Sagebrush	U-A: Annual Spp	U-A: Annual Spp	Fall-Cattle-Grazing-byYr	0.0032	0.0005	3			Yes
Black Sagebrush	U-A: Annual Spp	U-A: Annual Spp	FeralHorse-Grazing	0.0080					2 No
Black Sagebrush	U-A: Annual Spp	U-A: Annual Spp	Herbicide-Plateau#SeedShrub-Planting	0.0100	0.1500				No
Black Sagebrush	U-A: Annual Spp	U-A: Annual Spp	Replacem entFire	0.1000					1
Black Sagebrush	U-A: Annual Spp	U-A: Annual Spp	Wild-Horse-Grazing	0.0080					2 No
Black Sagebrush	U-A: Annual Spp	U-A: Exotic Forbs	AS-Invasion	0.0005					No
Black Sagebrush	U-A: Annual Spp	U-A: SI	BLM-Post-Fire-Rahb	0.0100	0.1000		3		1
Black Sagebrush	U-A: Annual Spp	U-A: SI	Herbicide-Plateau#SeedShrub-Planting	0.0100	0.1500				1
Black Sagebrush	U-A: Annual Spp	U-A: SI	BLM-Post-Fire-Rahb	0.0100	0.1000		3		1
Black Sagebrush	U-A: Bare Ground	U-A: SAP	Herbicide-Plateau#SeedShrub-Planting	0.0100	0.1500				Yes
Black Sagebrush	U-A: Bare Ground	U-A: SAP	AS-Invasion	0.0005					Yes
Black Sagebrush	U-A: Bare Ground	U-A: Early Shrub	Alternate-Succession	0.0250		3			Yes
Black Sagebrush	U-A: Bare Ground	U-A: Exotic Forbs	Exotic-Invasion	0.0005					Yes
Black Sagebrush	U-A: Early Shrub	U-A: Early Shrub	Replacem entFire	0.0067					Yes
Black Sagebrush	U-A: Early Shrub	U-A: Exotic Forbs	Exotic-Invasion	0.0005					No
Black Sagebrush	U-A: Exotic Forbs	U-A: Exotic Forbs	EarlySpring-Cattle-Grazing-byYr	0.0250		3			No
Black Sagebrush	U-A: Exotic Forbs	U-A: Exotic Forbs	Exotic-Control	0.0100	0.2000				Yes
Black Sagebrush	U-A: Exotic Forbs	U-A: Exotic Forbs	Fall-Cattle-Grazing-byYr	0.0032		3			No
Black Sagebrush	U-A: Exotic Forbs	U-A: Exotic Forbs	FeralHorse-Grazing	0.0080					2 No
Black Sagebrush	U-A: Exotic Forbs	U-A: Exotic Forbs	Late-Spring-Cattle-Grazing-byYr	0.0250		3			1 No
Black Sagebrush	U-A: Exotic Forbs	U-A: Exotic Forbs	Replacem entFire	0.0067					Yes
Black Sagebrush	U-A: Exotic Forbs	U-A: Exotic Forbs	Summer-Cattle-Grazing-byYr	0.0032		3			No
Black Sagebrush	U-A: Exotic Forbs	U-A: Exotic Forbs	Wild-Horse-Grazing	0.0080					2 No
Black Sagebrush	U-A: Exotic Forbs	U-A: SI	Exotic-Control	0.0100	0.8000				Yes
Black Sagebrush	U-A: SAP	U-A: Annual Spp	EarlySpring-Cattle-Grazing-byYr	0.0250	0.0005	3			Yes
Black Sagebrush	U-A: SAP	U-A: SAP	Fall-Cattle-Grazing-byYr	0.0032	0.0005	3			Yes
Black Sagebrush	U-A: SAP	U-A: Annual Spp	FeralHorse-Grazing	0.0080	0.0010				Yes
Black Sagebrush	U-A: SAP	U-A: Annual Spp	Late-Spring-Cattle-Grazing-byYr	0.0250	0.0010	3			1 No
Black Sagebrush	U-A: SAP	U-A: Annual Spp	Replacem entFire	0.0100	0.5000				1
Black Sagebrush	U-A: SAP	U-A: Annual Spp	Summer-Cattle-Grazing-byYr	0.0032	0.0005	3			Yes
Black Sagebrush	U-A: SAP	U-A: Annual Spp	Wild-Horse-Grazing	0.0080	0.0010				Yes
Black Sagebrush	U-A: SAP	U-A: Exotic Forbs	Exotic-Invasion	0.0005					No
Black Sagebrush	U-A: SAP	U-A: SAP	BLM-Post-Fire-Rahb	0.0100	0.8000		3		1
Black Sagebrush	U-A: SAP	U-A: SAP	EarlySpring-Cattle-Grazing-byYr	0.0250	0.9995	3			No
Black Sagebrush	U-A: SAP	U-A: SAP	Fall-Cattle-Grazing-byYr	0.0032	0.9995	3			No
Black Sagebrush	U-A: SAP	U-A: SAP	FeralHorse-Grazing	0.0080	0.9990				2 No
Black Sagebrush	U-A: SAP	U-A: SAP	Late-Spring-Cattle-Grazing-byYr	0.0250	0.9990	3			1 No
Black Sagebrush	U-A: SAP	U-A: SAP	Replacem entFire	0.0100	0.5000				1
Black Sagebrush	U-A: SAP	U-A: SAP	Severe-Drought	0.0070	0.1000				Yes
Black Sagebrush	U-A: SAP	U-A: SAP	Severe-Drought	0.0070	0.9000				-1 No
Black Sagebrush	U-A: SAP	U-A: SAP	Summer-Cattle-Grazing-byYr	0.0032	0.9995	3			No
Black Sagebrush	U-A: SAP	U-A: SAP	Wild-Horse-Grazing	0.0080	0.9990				2 No
Black Sagebrush	U-A: SAP	U-A: SI	BLM-Post-Fire-Rahb	0.0100	0.1000		3		1
Black Sagebrush	U-A: SAP	U-A: SI	BLM-Post-Fire-Rahb	0.0100	0.1000		3		Yes
Black Sagebrush	U-A: Seeded Native	A:All	Natural-Recovery	0.3300					No
Black Sagebrush	U-A: Seeded Native	U-A: Bare Ground	EarlySpring-Cattle-Grazing-byYr	0.0250	0.0005	6			Yes
Black Sagebrush	U-A: Seeded Native	U-A: Bare Ground	Fall-Cattle-Grazing-byYr	0.0032	0.0005	6			Yes
Black Sagebrush	U-A: Seeded Native	U-A: Bare Ground	FeralHorse-Grazing	0.0080	0.0005	6			Yes
Black Sagebrush	U-A: Seeded Native	U-A: Bare Ground	Late-Spring-Cattle-Grazing-byYr	0.0250	0.0005	6			Yes
Black Sagebrush	U-A: Seeded Native	U-A: Bare Ground	Summer-Cattle-Grazing-byYr	0.0032	0.0005	6			Yes
Black Sagebrush	U-A: Seeded Native	U-A: Bare Ground	Wild-Horse-Grazing	0.0080	0.0005	6			Yes
Black Sagebrush	U-A: Seeded Native	U-A: Early Shrub	EarlySpring-Cattle-Grazing-byYr	0.0250		3	5		Yes
Black Sagebrush	U-A: Seeded Native	U-A: Early Shrub	Fall-Cattle-Grazing-byYr	0.0032		3	5		Yes
Black Sagebrush	U-A: Seeded Native	U-A: Early Shrub	FeralHorse-Grazing	0.0080		6	5		Yes
Black Sagebrush	U-A: Seeded Native	U-A: Early Shrub	FeralHorse-Grazing	0.0080	0.0005	6			Yes
Black Sagebrush	U-A: Seeded Native	U-A: Early Shrub	Late-Spring-Cattle-Grazing-byYr	0.0250		3	5		Yes
Black Sagebrush	U-A: Seeded Native	U-A: Early Shrub	Late-Spring-Cattle-Grazing-byYr	0.0250	0.0005	6			1 No
Black Sagebrush	U-A: Seeded Native	U-A: Early Shrub	Severe-Drought	0.0070		1	2		Yes
Black Sagebrush	U-A: Seeded Native	U-A: Early Shrub	Severe-Drought	0.0070	0.1000	3			Yes
Black Sagebrush	U-A: Seeded Native	U-A: Early Shrub	Summer-Cattle-Grazing-byYr	0.0032		3	5		Yes
Black Sagebrush	U-A: Seeded Native	U-A: Early Shrub	Wild-Horse-Grazing	0.0080		3	5		Yes
Black Sagebrush	U-A: Seeded Native	U-A: Early Shrub	Wild-Horse-Grazing	0.0080	0.0005	6			Yes
Black Sagebrush	U-A: Seeded Native	U-A: Exotic Forbs	Exotic-Invasion	0.0005					No
Black Sagebrush	U-A: Seeded Native	U-A: SAP	AS-Invasion	0.0025					No
Black Sagebrush	U-A: Seeded Native	U-A: Seeded Native	EarlySpring-Cattle-Grazing-byYr	0.0250	0.9995	6			No
Black Sagebrush	U-A: Seeded Native	U-A: Seeded Native	Fall-Cattle-Grazing-byYr	0.0032	0.9995	6			No

Black Sagebrush	U-A Seeded Native	U-A Seeded Native	FeralHorse-Grazing	0.0080	0.9990		2	No
Black Sagebrush	U-A Seeded Native	U-A Seeded Native	Late-Spring-Cattle-Grazing-byYr	0.0250	0.9990	6	1	No
Black Sagebrush	U-A Seeded Native	U-A Seeded Native	ReplacementFire	0.0040				Yes
Black Sagebrush	U-A Seeded Native	U-A Seeded Native	Severe Drought	0.0070	0.9000	3		Yes
Black Sagebrush	U-A Seeded Native	U-A Seeded Native	Summer-Cattle-Grazing-byYr	0.0032	0.9995	6		No
Black Sagebrush	U-A Seeded Native	U-A Seeded Native	Wild-Horse-Grazing	0.0080	0.9990		2	No
Black Sagebrush	U-A SI	U-A Early Shrub	FeralHorse-Grazing	0.0080			2	Yes
Black Sagebrush	U-A SI	U-A Early Shrub	Severe Drought	0.0070		1	2	Yes
Black Sagebrush	U-A SI	U-A Early Shrub	Wild-Horse-Grazing	0.0080			2	Yes
Black Sagebrush	U-A SI	U-A SI	Early-Spring-Cattle-Grazing-byYr	0.0250		3		No
Black Sagebrush	U-A SI	U-A SI	Fall-Cattle-Grazing-byYr	0.0032		3		No
Black Sagebrush	U-A SI	U-A SI	FeralHorse-Grazing	0.0080		3	2	No
Black Sagebrush	U-A SI	U-A SI	Late-Spring-Cattle-Grazing-byYr	0.0032		3		No
Black Sagebrush	U-A SI	U-A SI	ReplacementFire	0.0020		1		Yes
Black Sagebrush	U-A SI	U-A SI	Severe Drought	0.0070	0.1000	3		Yes
Black Sagebrush	U-A SI	U-A SI	Severe Drought	0.0070	0.9000	3		-1 No
Black Sagebrush	U-A SI	U-A SI	Summer-Cattle-Grazing-byYr	0.0032		3		No
Black Sagebrush	U-A SI	U-A SI	Wild-Horse-Grazing	0.0080		3	2	No
Black Sagebrush	U-A SI	U-A SHAS	AS-Invasion	0.0010		1		No
Black Sagebrush	U-A SHAS	U-A Annual Spp	FeralHorse-Grazing	0.0080			2	Yes
Black Sagebrush	U-A SHAS	U-A Annual Spp	Severe Drought	0.0070		1	2	Yes
Black Sagebrush	U-A SHAS	U-A Annual Spp	Wild-Horse-Grazing	0.0080			2	Yes
Black Sagebrush	U-A SHAS	U-A SI	Competition	0.3300				No
Black Sagebrush	U-A SHAS	U-A SHAS	Early-Spring-Cattle-Grazing-byYr	0.0250		3		No
Black Sagebrush	U-A SHAS	U-A SHAS	Fall-Cattle-Grazing-byYr	0.0032		3		No
Black Sagebrush	U-A SHAS	U-A SHAS	FeralHorse-Grazing	0.0080		2		No
Black Sagebrush	U-A SHAS	U-A SHAS	Late-Spring-Cattle-Grazing-byYr	0.0250		3		1 No
Black Sagebrush	U-A SHAS	U-A SHAS	ReplacementFire	0.0050				Yes
Black Sagebrush	U-A SHAS	U-A SHAS	Severe Drought	0.0070	0.1000	3		2 No
Black Sagebrush	U-A SHAS	U-A SHAS	Severe Drought	0.0070	0.9000	3		-1 No
Black Sagebrush	U-A SHAS	U-A SHAS	Summer-Cattle-Grazing-byYr	0.0032		3		No
Black Sagebrush	U-A SHAS	U-A SHAS	Web-Year	0.0670				No
Black Sagebrush	U-A SHAS	U-A SHAS	Wild-Horse-Grazing	0.0080		3	2	No
Black Sagebrush	U-A Unpalat. Forb	U-A Unpalat. Forb	ReplacementFire	0.0067				Yes
Black Sagebrush	U-B Depleted	U-A Annual Spp	ReplacementFire	0.0067	0.5000			Yes
Black Sagebrush	U-B Depleted	U-A Early Shrub	ReplacementFire	0.0067	0.5000			Yes
Black Sagebrush	U-B Depleted	U-A Early Shrub	Severe Drought	0.0070	0.1000			Yes
Black Sagebrush	U-B Depleted	U-A Early Shrub	ThinSeed	0.0000	0.1500			Yes
Black Sagebrush	U-B Depleted	U-A SI	ThinSeed	0.0000	0.7000			Yes
Black Sagebrush	U-B Depleted	U-A SHAS	ThinSeed	0.0000	0.1500			Yes
Black Sagebrush	U-B Depleted	U-B Depleted	Severe Drought	0.0070	0.9000			Yes
Black Sagebrush	U-B Depleted	U-B Exotic Forbs	Exotic-Invasion	0.0005				No
Black Sagebrush	U-B Depleted	U-B SA	AS-Invasion	0.0050				No
Black Sagebrush	U-B Early Shrub	U-A Early Shrub	ReplacementFire	0.0067				Yes
Black Sagebrush	U-B Early Shrub	U-A Early Shrub	Spikes/PlatesauSeed	0.0000	0.3000			Yes
Black Sagebrush	U-B Early Shrub	U-A SI	Spikes/PlatesauSeed	0.0000	0.7000			Yes
Black Sagebrush	U-B Early Shrub	U-B Exotic Forbs	Exotic-Invasion	0.0005				No
Black Sagebrush	U-B Exotic Forbs	U-A Annual Spp	ReplacementFire	0.0067	0.2500			Yes
Black Sagebrush	U-B Exotic Forbs	U-A Exotic Forbs	Exotic-Control	0.0100	0.2000			Yes
Black Sagebrush	U-B Exotic Forbs	U-B Exotic Forbs	ReplacementFire	0.0067	0.7500			Yes
Black Sagebrush	U-B Exotic Forbs	U-A SI	Exotic-Control	0.0100	0.8000			Yes
Black Sagebrush	U-B Exotic Forbs	U-B Exotic Forbs	Early-Spring-Cattle-Grazing-byYr	0.0250				No
Black Sagebrush	U-B Exotic Forbs	U-B Exotic Forbs	Fall-Cattle-Grazing-byYr	0.0032				No
Black Sagebrush	U-B Exotic Forbs	U-B Exotic Forbs	FeralHorse-Grazing	0.0080				No
Black Sagebrush	U-B Exotic Forbs	U-B Exotic Forbs	Late-Spring-Cattle-Grazing-byYr	0.0250				1 No
Black Sagebrush	U-B Exotic Forbs	U-B Exotic Forbs	Summer-Cattle-Grazing-byYr	0.0032				No
Black Sagebrush	U-B Exotic Forbs	U-B Exotic Forbs	Wild-Horse-Grazing	0.0080				2 No
Black Sagebrush	U-B SA	U-A Annual Spp	Diebe-Harrow/PlatesauSeed	0.0000	0.1000			Yes
Black Sagebrush	U-B SA	U-A Annual Spp	Early-Spring-Cattle-Grazing-byYr	0.0250	0.0005			Yes
Black Sagebrush	U-B SA	U-A Annual Spp	Fall-Cattle-Grazing-byYr	0.0032	0.0005			Yes
Black Sagebrush	U-B SA	U-A Annual Spp	ReplacementFire	0.0080	0.0010			Yes
Black Sagebrush	U-B SA	U-A Annual Spp	Severe Drought	0.0070	0.1000			1 No
Black Sagebrush	U-B SA	U-A Annual Spp	Wild-Horse-Grazing	0.0080	0.0010			Yes
Black Sagebrush	U-B SA	U-A SI	Diebe-Harrow/PlatesauSeed	0.0000	0.8000			Yes
Black Sagebrush	U-B SA	U-A SHAS	Diebe-Harrow/PlatesauSeed	0.0000	0.1000			Yes
Black Sagebrush	U-B SA	U-B Exotic Forbs	Exotic-Invasion	0.0005				No
Black Sagebrush	U-B SA	U-B SA	Early-Spring-Cattle-Grazing-byYr	0.0250	0.9995			No
Black Sagebrush	U-B SA	U-B SA	Fall-Cattle-Grazing-byYr	0.0032	0.9995			No
Black Sagebrush	U-B SA	U-B SA	FeralHorse-Grazing	0.0080	0.9990			No
Black Sagebrush	U-B SA	U-B SA	Severe Drought	0.0070	0.9000			Yes
Black Sagebrush	U-B SA	U-B SA	Wild-Horse-Grazing	0.0080	0.9990			No
Black Sagebrush	U-B SAP	U-A Annual Spp	Early-Spring-Cattle-Grazing-byYr	0.0250	0.0005			No
Black Sagebrush	U-B SAP	U-A Annual Spp	Fall-Cattle-Grazing-byYr	0.0032	0.0005			No
Black Sagebrush	U-B SAP	U-A Annual Spp	FeralHorse-Grazing	0.0080	0.0005			Yes
Black Sagebrush	U-B SAP	U-A Annual Spp	Late-Spring-Cattle-Grazing-byYr	0.0250	0.0005			Yes
Black Sagebrush	U-B SAP	U-A Annual Spp	Summer-Cattle-Grazing-byYr	0.0032	0.0005			No
Black Sagebrush	U-B SAP	U-A Annual Spp	Wild-Horse-Grazing	0.0080	0.0005			Yes
Black Sagebrush	U-B SAP	U-A SAP	ReplacementFire	0.0100				Yes
Black Sagebrush	U-B SAP	U-A SAP	Severe Drought	0.0070	0.1000			1 Yes
Black Sagebrush	U-B SAP	U-B Exotic Forbs	Exotic-Invasion	0.0005				No
Black Sagebrush	U-B SAP	U-B SA	FeralHorse-Grazing	0.0080	0.0005			2 No
Black Sagebrush	U-B SAP	U-B SA	Late-Spring-Cattle-Grazing-byYr	0.0250	0.0005			No
Black Sagebrush	U-B SAP	U-B SA	Wild-Horse-Grazing	0.0080	0.0005			2 No
Black Sagebrush	U-B SAP	U-B SAP	Early-Spring-Cattle-Grazing-byYr	0.0250	0.9995			No
Black Sagebrush	U-B SAP	U-B SAP	Fall-Cattle-Grazing-byYr	0.0032	0.9995			No
Black Sagebrush	U-B SAP	U-B SAP	FeralHorse-Grazing	0.0080	0.9990			2 No
Black Sagebrush	U-B SAP	U-B SAP	Late-Spring-Cattle-Grazing-byYr	0.0250	0.9990			1 No
Black Sagebrush	U-B SAP	U-B SAP	Severe Drought	0.0070	0.9000			Yes
Black Sagebrush	U-B SAP	U-B SAP	Summer-Cattle-Grazing-byYr	0.0032	0.9995			No
Black Sagebrush	U-B SAP	U-B SAP	Wild-Horse-Grazing	0.0080	0.9990			2 No
Black Sagebrush	U-B Seeded Native	B:Open	NaturalRecovery	0.3300				No
Black Sagebrush	U-B Seeded Native	U-A Bare Ground	Early-Spring-Cattle-Grazing-byYr	0.0250	0.0005			5 Yes
Black Sagebrush	U-B Seeded Native	U-A Bare Ground	Fall-Cattle-Grazing-byYr	0.0032	0.0005			Yes
Black Sagebrush	U-B Seeded Native	U-A Bare Ground	FeralHorse-Grazing	0.0080	0.0005			Yes
Black Sagebrush	U-B Seeded Native	U-A Bare Ground	Late-Spring-Cattle-Grazing-byYr	0.0250	0.0005			Yes
Black Sagebrush	U-B Seeded Native	U-A Bare Ground	Summer-Cattle-Grazing-byYr	0.0032	0.0005			Yes
Black Sagebrush	U-B Seeded Native	U-A Bare Ground	Wild-Horse-Grazing	0.0080	0.0005			Yes
Black Sagebrush	U-B Seeded Native	U-A Early Shrub	FeralHorse-Grazing	0.0080	0.0005			Yes
Black Sagebrush	U-B Seeded Native	U-A Early Shrub	Wild-Horse-Grazing	0.0080	0.0005			Yes
Black Sagebrush	U-B Seeded Native	U-B Early Shrub	Late-Spring-Cattle-Grazing-byYr	0.0250	0.0005			1 No
Black Sagebrush	U-B Seeded Native	U-B Early Shrub	Severe Drought	0.0070	0.1000			Yes
Black Sagebrush	U-B Seeded Native	U-B Exotic Forbs	Exotic-Invasion	0.0005				Yes
Black Sagebrush	U-B Seeded Native	U-B SAP	AS-Invasion	0.0025				No
Black Sagebrush	U-B Seeded Native	U-B Seeded Native	Early-Spring-Cattle-Grazing-byYr	0.0250	0.9995			No
Black Sagebrush	U-B Seeded Native	U-B Seeded Native	Fall-Cattle-Grazing-byYr	0.0032	0.9995			No
Black Sagebrush	U-B Seeded Native	U-B Seeded Native	FeralHorse-Grazing	0.0080	0.9990			2 No
Black Sagebrush	U-B Seeded Native	U-B Seeded Native	Late-Spring-Cattle-Grazing-byYr	0.0250	0.9990			1 No
Black Sagebrush	U-B Seeded Native	U-B Seeded Native	ReplacementFire	0.0067				Yes
Black Sagebrush	U-B Seeded Native	U-B Seeded Native	Severe Drought	0.0070	0.9000			Yes
Black Sagebrush	U-B Seeded Native	U-B Seeded Native	Summer-Cattle-Grazing-byYr	0.0032	0.9995			Yes
Black Sagebrush	U-B Seeded Native	U-B Seeded Native	Wild-Horse-Grazing	0.0080	0.9990			2 No
Black Sagebrush	U-B Seeded Native	U-B Seeded Native	Wild-Horse-Grazing	0.0080	0.9990			2 No
Black Sagebrush	U-B SI	B:Open	NaturalRecovery	0.0010				10 No
Black Sagebrush	U-B SI	U-A SI	ReplacementFire	0.0020				Yes
Black Sagebrush	U-B SI	U-A SI	Severe Drought	0.0070	0.1000			Yes
Black Sagebrush	U-B SI	U-B SI	Early-Spring-Cattle-Grazing-byYr	0.0250				No
Black Sagebrush	U-B SI	U-B SI	Fall-Cattle-Grazing-byYr	0.0032				No
Black Sagebrush	U-B SI	U-B SI	FeralHorse-Grazing	0.0080				2 No

Black Sagebrush	U-B-SI	U-B-SI	Late-Spring-Cattle-Grazing-byYr	0.0250		1	No
Black Sagebrush	U-B-SI	U-B-SI	Severe-Drought	0.0070	0.9000		Yes
Black Sagebrush	U-B-SI	U-B-SI	Summer-Cattle-Grazing-byYr	0.0032			No
Black Sagebrush	U-B-SI	U-B-SI	Wild-Horse-Grazing	0.0080		2	No
Black Sagebrush	U-B-SI	U-B-SI	AS-Invasion	0.0010			No
Black Sagebrush	U-B-SI	U-B-SI	ReplacementFire	0.0050			Yes
Black Sagebrush	U-B-SI	U-B-SI	Severe-Drought	0.0070	0.1000		Yes
Black Sagebrush	U-B-SI	U-B-SI	Competition	0.3330			No
Black Sagebrush	U-B-SI	U-B-SI	Early-Spring-Cattle-Grazing-byYr	0.0250			3
Black Sagebrush	U-B-SI	U-B-SI	Fall-Cattle-Grazing-byYr	0.0032			No
Black Sagebrush	U-B-SI	U-B-SI	FeralHorse-Grazing	0.0080		2	No
Black Sagebrush	U-B-SI	U-B-SI	Late-Spring-Cattle-Grazing-byYr	0.0250		1	No
Black Sagebrush	U-B-SI	U-B-SI	Severe-Drought	0.0070	0.9000		Yes
Black Sagebrush	U-B-SI	U-B-SI	Summer-Cattle-Grazing-byYr	0.0032			No
Black Sagebrush	U-B-SI	U-B-SI	Wet-Year	0.0670			No
Black Sagebrush	U-B-SI	U-B-SI	Wild-Horse-Grazing	0.0080		2	No
Black Sagebrush	U-Unpalat. Forb	U-Unpalat. Forb	ReplacementFire	0.0067			Yes
Black Sagebrush	U-C-Depleted	U-Annual Spp	ReplacementFire	0.0100	0.5000		Yes
Black Sagebrush	U-C-Depleted	U-Early Shrub	ReplacementFire	0.0067	0.5000		Yes
Black Sagebrush	U-C-Depleted	U-Early Shrub	Severe-Drought	0.0070	0.1000		No
Black Sagebrush	U-C-Depleted	U-Early Shrub	ThinSeed	0.0000	0.1500		Yes
Black Sagebrush	U-C-Depleted	U-ASI	ThinSeed	0.0000	0.7000		Yes
Black Sagebrush	U-C-Depleted	U-ASHAS	ThinSeed	0.0000	0.1500		Yes
Black Sagebrush	U-C-Depleted	U-C-Depleted	Severe-Drought	0.0070	0.9000		Yes
Black Sagebrush	U-C-Depleted	U-C-Exotic Forbs	Exotic-Invasion	0.0005			No
Black Sagebrush	U-C-Depleted	U-CSA	AS-Invasion	0.0050			No
Black Sagebrush	U-C-Depleted	U-Early Shrub	ReplacementFire	0.0067			Yes
Black Sagebrush	U-C-Early Shrub	U-Early Shrub	Spike-PlateauSeed	0.0000	0.3000		Yes
Black Sagebrush	U-C-Early Shrub	U-ASI	Spike-PlateauSeed	0.0000	0.7000		Yes
Black Sagebrush	U-C-Early Shrub	U-C-Exotic Forbs	Exotic-Invasion	0.0005			No
Black Sagebrush	U-C-Exotic Forbs	U-Annual Spp	ReplacementFire	0.0067	0.2500		Yes
Black Sagebrush	U-C-Exotic Forbs	U-C-Exotic Forbs	Exotic-Control	0.0100	0.2000		Yes
Black Sagebrush	U-C-Exotic Forbs	U-C-Exotic Forbs	ReplacementFire	0.0067	0.7500		Yes
Black Sagebrush	U-C-Exotic Forbs	U-ASI	Exotic-Control	0.0100	0.8000		Yes
Black Sagebrush	U-C-Exotic Forbs	U-C-Exotic Forbs	Early-Spring-Cattle-Grazing-byYr	0.0250			20
Black Sagebrush	U-C-Exotic Forbs	U-C-Exotic Forbs	Fall-Cattle-Grazing-byYr	0.0032			No
Black Sagebrush	U-C-Exotic Forbs	U-C-Exotic Forbs	FeralHorse-Grazing	0.0080		2	No
Black Sagebrush	U-C-Exotic Forbs	U-C-Exotic Forbs	Late-Spring-Cattle-Grazing-byYr	0.0250		1	No
Black Sagebrush	U-C-Exotic Forbs	U-C-Exotic Forbs	Summer-Cattle-Grazing-byYr	0.0032			No
Black Sagebrush	U-C-Exotic Forbs	U-C-Exotic Forbs	Wild-Horse-Grazing	0.0080		2	No
Black Sagebrush	U-CSA	U-Annual Spp	Dike-HarrowPlateauSeed	0.0000	0.1000		Yes
Black Sagebrush	U-CSA	U-Annual Spp	Early-Spring-Cattle-Grazing-byYr	0.0250	0.0005		Yes
Black Sagebrush	U-CSA	U-Annual Spp	Fall-Cattle-Grazing-byYr	0.0032	0.0005		Yes
Black Sagebrush	U-CSA	U-Annual Spp	FeralHorse-Grazing	0.0080	0.0010		Yes
Black Sagebrush	U-CSA	U-Annual Spp	ReplacementFire	0.0100			Yes
Black Sagebrush	U-CSA	U-Annual Spp	Severe-Drought	0.0070	0.1000		No
Black Sagebrush	U-CSA	U-Annual Spp	Wild-Horse-Grazing	0.0080	0.0010		Yes
Black Sagebrush	U-CSA	U-ASI	Dike-HarrowPlateauSeed	0.0000	0.8000		Yes
Black Sagebrush	U-CSA	U-ASHAS	Dike-HarrowPlateauSeed	0.0000	0.1000		Yes
Black Sagebrush	U-CSA	U-C-Exotic Forbs	Exotic-Invasion	0.0005			Yes
Black Sagebrush	U-CSA	U-CSA	Early-Spring-Cattle-Grazing-byYr	0.0250	0.9995		No
Black Sagebrush	U-CSA	U-CSA	Fall-Cattle-Grazing-byYr	0.0032	0.9995		No
Black Sagebrush	U-CSA	U-CSA	FeralHorse-Grazing	0.0080	0.9990		No
Black Sagebrush	U-CSA	U-CSA	Severe-Drought	0.0070	0.9000		Yes
Black Sagebrush	U-CSA	U-CSA	Wild-Horse-Grazing	0.0080	0.9990		No
Black Sagebrush	U-CSA	U-TEA	Tree-Invasion	0.0067		120	Yes
Black Sagebrush	U-CSAP	U-Annual Spp	Early-Spring-Cattle-Grazing-byYr	0.0250	0.0005		No
Black Sagebrush	U-CSAP	U-Annual Spp	Fall-Cattle-Grazing-byYr	0.0032	0.0005		No
Black Sagebrush	U-CSAP	U-Annual Spp	FeralHorse-Grazing	0.0080	0.0005		Yes
Black Sagebrush	U-CSAP	U-Annual Spp	Late-Spring-Cattle-Grazing-byYr	0.0250	0.0005		Yes
Black Sagebrush	U-CSAP	U-Annual Spp	Summer-Cattle-Grazing-byYr	0.0032	0.0005		No
Black Sagebrush	U-CSAP	U-Annual Spp	Wild-Horse-Grazing	0.0080	0.0005		Yes
Black Sagebrush	U-CSAP	U-ASAP	ReplacementFire	0.0100			Yes
Black Sagebrush	U-CSAP	U-ASAP	Severe-Drought	0.0070	0.1000		Yes
Black Sagebrush	U-CSAP	U-C-Exotic Forbs	Exotic-Invasion	0.0005			No
Black Sagebrush	U-CSAP	U-CSA	FeralHorse-Grazing	0.0080	0.0005		2
Black Sagebrush	U-CSAP	U-CSA	Late-Spring-Cattle-Grazing-byYr	0.0250	0.0005		1
Black Sagebrush	U-CSAP	U-CSA	Wild-Horse-Grazing	0.0080	0.0005		2
Black Sagebrush	U-CSAP	U-CSAP	Early-Spring-Cattle-Grazing-byYr	0.0250	0.9995		No
Black Sagebrush	U-CSAP	U-CSAP	Fall-Cattle-Grazing-byYr	0.0032	0.9995		No
Black Sagebrush	U-CSAP	U-CSAP	FeralHorse-Grazing	0.0080	0.9990		2
Black Sagebrush	U-CSAP	U-CSAP	Late-Spring-Cattle-Grazing-byYr	0.0250	0.9990		1
Black Sagebrush	U-CSAP	U-CSAP	Severe-Drought	0.0070	0.9000		Yes
Black Sagebrush	U-CSAP	U-CSAP	Summer-Cattle-Grazing-byYr	0.0032	0.9995		Yes
Black Sagebrush	U-CSAP	U-CSAP	Wild-Horse-Grazing	0.0080	0.9990		2
Black Sagebrush	U-CSAP	U-TEA	Tree-Invasion	0.0067		120	Yes
Black Sagebrush	U-CSI	C-Closed	NaturalRecovery	0.0100			No
Black Sagebrush	U-CSI	U-ASI	ReplacementFire	0.0020			10
Black Sagebrush	U-CSI	U-B-SI	Severe-Drought	0.0070	0.1000		Yes
Black Sagebrush	U-CSI	U-CSI	Early-Spring-Cattle-Grazing-byYr	0.0250			No
Black Sagebrush	U-CSI	U-CSI	Fall-Cattle-Grazing-byYr	0.0032			No
Black Sagebrush	U-CSI	U-CSI	FeralHorse-Grazing	0.0080		2	No
Black Sagebrush	U-CSI	U-CSI	Late-Spring-Cattle-Grazing-byYr	0.0250		1	No
Black Sagebrush	U-CSI	U-CSI	Severe-Drought	0.0070	0.9000		Yes
Black Sagebrush	U-CSI	U-CSI	Summer-Cattle-Grazing-byYr	0.0032			No
Black Sagebrush	U-CSI	U-CSI	Wild-Horse-Grazing	0.0080		2	No
Black Sagebrush	U-CSI	U-CSHAS	AS-Invasion	0.0010			No
Black Sagebrush	U-CSI	U-DSI	Tree-Invasion	0.0067		120	Yes
Black Sagebrush	U-CSHAS	U-ASHAS	ReplacementFire	0.0050			Yes
Black Sagebrush	U-CSHAS	U-B-SI	Severe-Drought	0.0070	0.1000		Yes
Black Sagebrush	U-CSHAS	U-CSI	Competition	0.3330			No
Black Sagebrush	U-CSHAS	U-CSHAS	Early-Spring-Cattle-Grazing-byYr	0.0250			3
Black Sagebrush	U-CSHAS	U-CSHAS	Fall-Cattle-Grazing-byYr	0.0032			No
Black Sagebrush	U-CSHAS	U-CSHAS	FeralHorse-Grazing	0.0080		2	No
Black Sagebrush	U-CSHAS	U-CSHAS	Late-Spring-Cattle-Grazing-byYr	0.0250		1	No
Black Sagebrush	U-CSHAS	U-CSHAS	Severe-Drought	0.0070	0.9000		Yes
Black Sagebrush	U-CSHAS	U-CSHAS	Summer-Cattle-Grazing-byYr	0.0032			No
Black Sagebrush	U-CSHAS	U-CSHAS	Wet-Year	0.0670			No
Black Sagebrush	U-CSHAS	U-CSHAS	Wild-Horse-Grazing	0.0080		2	No
Black Sagebrush	U-CSHAS	U-DSHAS	Tree-Invasion	0.0067		120	Yes
Black Sagebrush	U-C-Unpalat. Forb	U-Unpalat. Forb	ReplacementFire	0.0067			Yes
Black Sagebrush	U-C-Unpalat. Forb	U-Unpalat. Forb	Tree-Invasion	0.0067		120	Yes
Black Sagebrush	U-DSI	U-Annual Spp	AerialSeed+Masticote+Plateau	0.0100	0.2000		Yes
Black Sagebrush	U-DSI	U-ASI	AerialSeed+Masticote+Plateau	0.0100	0.6000		Yes
Black Sagebrush	U-DSI	U-ASI	ReplacementFire	0.0020			Yes
Black Sagebrush	U-DSI	U-ASHAS	AerialSeed+Masticote+Plateau	0.0100	0.2000		Yes
Black Sagebrush	U-DSI	U-CSI	Severe-Drought	0.0070	0.1000		Yes
Black Sagebrush	U-DSI	U-DSI	Early-Spring-Cattle-Grazing-byYr	0.0250			No
Black Sagebrush	U-DSI	U-DSI	Fall-Cattle-Grazing-byYr	0.0032			No
Black Sagebrush	U-DSI	U-DSI	FeralHorse-Grazing	0.0080		2	No
Black Sagebrush	U-DSI	U-DSI	Late-Spring-Cattle-Grazing-byYr	0.0250		1	No
Black Sagebrush	U-DSI	U-DSI	NaturalRecovery	0.0100			10
Black Sagebrush	U-DSI	U-DSI	Severe-Drought	0.0070	0.9000		249
Black Sagebrush	U-DSI	U-DSI	Summer-Cattle-Grazing-byYr	0.0032			5
Black Sagebrush	U-DSI	U-DSI	Wild-Horse-Grazing	0.0080			No
Black Sagebrush	U-DSI	U-DSI	AS-Invasion	0.0010			2
Black Sagebrush	U-DSI	U-DSHAS	AS-Invasion	0.0010			No
Black Sagebrush	U-DSI	U-TEA	Tree-Enrichment	0.0200		250	No
Black Sagebrush	U-DSHAS	U-Annual Spp	AerialSeed+Masticote+Plateau	0.0100	0.2000		Yes

Black Sagebrush	U-D-SHAS	U-A-SI	AerialSeed+Masticate+Plateau	0.0100	0.6000	Yes	
Black Sagebrush	U-D-SHAS	U-A-SHAS	AerialSeed+Masticate+Plateau	0.0100	0.2000	Yes	
Black Sagebrush	U-D-SHAS	U-A-SHAS	ReplacementFire	0.0050		Yes	
Black Sagebrush	U-D-SHAS	U-C-SI	Competition	0.3330		No	3
Black Sagebrush	U-D-SHAS	U-C-SHAS	Severe-Drought	0.0070	0.1000	Yes	
Black Sagebrush	U-D-SHAS	U-D-SHAS	EarlySpring-Cattle-Grazing-byYr	0.0250		No	
Black Sagebrush	U-D-SHAS	U-D-SHAS	Fall-Cattle-Grazing-byYr	0.0032		No	
Black Sagebrush	U-D-SHAS	U-D-SHAS	FeralHorse-Grazing	0.0080		2 No	
Black Sagebrush	U-D-SHAS	U-D-SHAS	Late-Spring-Cattle-Grazing-byYr	0.0250		1 No	
Black Sagebrush	U-D-SHAS	U-D-SHAS	Severe-Drought	0.0070	0.9000	Yes	
Black Sagebrush	U-D-SHAS	U-D-SHAS	Summer-Cattle-Grazing-byYr	0.0032		No	
Black Sagebrush	U-D-SHAS	U-D-SHAS	Web-Year	0.0670		No	
Black Sagebrush	U-D-SHAS	U-D-SHAS	Wild-Horse-Grazing	0.0080		2 No	
Black Sagebrush	U-D-SHAS	U-D-TEA	Tree-Encroachment	0.0200		No	250
Black Sagebrush	U-D-TEA	U-A-Annual Spp	AerialSeed+Masticate+Plateau	0.0100	0.2000	Yes	
Black Sagebrush	U-D-TEA	U-A-Annual Spp	Chainsaw-Thinning	0.0100	0.0500	Yes	
Black Sagebrush	U-D-TEA	U-A-Annual Spp	ReplacementFire	0.0067		Yes	
Black Sagebrush	U-D-TEA	U-A-Annual Spp	Severe-Drought	0.0070	0.1000	Yes	
Black Sagebrush	U-D-TEA	U-A-Early Shrub	Chainsaw-Thinning	0.0100	0.0500	Yes	
Black Sagebrush	U-D-TEA	U-A-SI	AerialSeed+Masticate+Plateau	0.0100	0.6000	Yes	
Black Sagebrush	U-D-TEA	U-A-SHAS	AerialSeed+Masticate+Plateau	0.0100	0.2000	Yes	
Black Sagebrush	U-D-TEA	U-B-Depleted	Chainsaw-Thinning	0.0100	0.3000	Yes	
Black Sagebrush	U-D-TEA	U-B-SA	Chainsaw-Thinning	0.0100	0.4000	Yes	
Black Sagebrush	U-D-TEA	U-B-SAP	Chainsaw-Thinning	0.0100	0.3000	Yes	
Black Sagebrush	U-D-TEA	U-D-TEA	Severe-Drought	0.0070	0.9000	Yes	
Black Sagebrush	U-D-TEA	U-A-Unpalat. Forb	ReplacementFire	0.0067		Yes	
Bluebunch Wheatgrass Grassland	A-All	A-All	EarlySpring-Cattle-Grazing-byYr	0.0379	0.9995	3	No
Bluebunch Wheatgrass Grassland	A-All	A-All	Fall-Cattle-Grazing-byYr	0.0048	0.9995	3	No
Bluebunch Wheatgrass Grassland	A-All	A-All	FeralHorse-Grazing	0.0180	0.9990	2	No
Bluebunch Wheatgrass Grassland	A-All	A-All	Late-Spring-Cattle-Grazing-byYr	0.0379	0.9990	3	1 No
Bluebunch Wheatgrass Grassland	A-All	A-All	ReplacementFire	0.0200		Yes	
Bluebunch Wheatgrass Grassland	A-All	A-All	Severe-Drought	0.0070		Yes	
Bluebunch Wheatgrass Grassland	A-All	A-All	Snow-Deposition	0.0670		5 Yes	
Bluebunch Wheatgrass Grassland	A-All	A-All	Summer-Cattle-Grazing-byYr	0.0048	0.9995	3	No
Bluebunch Wheatgrass Grassland	A-All	A-All	Wild-Horse-Grazing	0.0180	0.9990	2	No
Bluebunch Wheatgrass Grassland	A-All	U-A-Bare Ground	EarlySpring-Cattle-Grazing-byYr	0.0379	0.0005	3	Yes
Bluebunch Wheatgrass Grassland	A-All	U-A-Bare Ground	Fall-Cattle-Grazing-byYr	0.0048	0.0005	3	Yes
Bluebunch Wheatgrass Grassland	A-All	U-A-Bare Ground	FeralHorse-Grazing	0.0180	0.0005	2	Yes
Bluebunch Wheatgrass Grassland	A-All	U-A-Bare Ground	Late-Spring-Cattle-Grazing-byYr	0.0379	0.0005	3	Yes
Bluebunch Wheatgrass Grassland	A-All	U-A-Bare Ground	Summer-Cattle-Grazing-byYr	0.0048	0.0005	3	Yes
Bluebunch Wheatgrass Grassland	A-All	U-A-Bare Ground	Wild-Horse-Grazing	0.0180	0.0005	2	Yes
Bluebunch Wheatgrass Grassland	A-All	U-A-Early Shrub	FeralHorse-Grazing	0.0180	0.0005	2	Yes
Bluebunch Wheatgrass Grassland	A-All	U-A-Early Shrub	Late-Spring-Cattle-Grazing-byYr	0.0379	0.0005	3	Yes
Bluebunch Wheatgrass Grassland	A-All	U-A-Early Shrub	Wild-Horse-Grazing	0.0180	0.0005	2	Yes
Bluebunch Wheatgrass Grassland	B-Closed	A-All	ReplacementFire	0.0250		Yes	
Bluebunch Wheatgrass Grassland	B-Closed	A-All	Severe-Drought	0.0070		5 Yes	
Bluebunch Wheatgrass Grassland	B-Closed	A-All	Snow-Deposition	0.0670		5 Yes	
Bluebunch Wheatgrass Grassland	B-Closed	B-Closed	EarlySpring-Cattle-Grazing-byYr	0.0379	0.9995	No	
Bluebunch Wheatgrass Grassland	B-Closed	B-Closed	Fall-Cattle-Grazing-byYr	0.0048	0.9995	2	No
Bluebunch Wheatgrass Grassland	B-Closed	B-Closed	FeralHorse-Grazing	0.0180	0.9990	2	No
Bluebunch Wheatgrass Grassland	B-Closed	B-Closed	Late-Spring-Cattle-Grazing-byYr	0.0379	0.9990	1	No
Bluebunch Wheatgrass Grassland	B-Closed	B-Closed	Summer-Cattle-Grazing-byYr	0.0048	0.9995	No	
Bluebunch Wheatgrass Grassland	B-Closed	B-Closed	Wild-Horse-Grazing	0.0180	0.9990	2	No
Bluebunch Wheatgrass Grassland	B-Closed	U-A-Bare Ground	EarlySpring-Cattle-Grazing-byYr	0.0379	0.0005	3	Yes
Bluebunch Wheatgrass Grassland	B-Closed	U-A-Bare Ground	Fall-Cattle-Grazing-byYr	0.0048	0.0005	Yes	
Bluebunch Wheatgrass Grassland	B-Closed	U-A-Bare Ground	FeralHorse-Grazing	0.0180	0.0005	Yes	
Bluebunch Wheatgrass Grassland	B-Closed	U-A-Bare Ground	Late-Spring-Cattle-Grazing-byYr	0.0379	0.0005	Yes	
Bluebunch Wheatgrass Grassland	B-Closed	U-A-Bare Ground	Summer-Cattle-Grazing-byYr	0.0048	0.0005	Yes	
Bluebunch Wheatgrass Grassland	B-Closed	U-A-Bare Ground	Wild-Horse-Grazing	0.0180	0.0005	Yes	
Bluebunch Wheatgrass Grassland	B-Closed	U-A-Early Shrub	FeralHorse-Grazing	0.0180	0.0005	Yes	
Bluebunch Wheatgrass Grassland	B-Closed	U-A-Early Shrub	Late-Spring-Cattle-Grazing-byYr	0.0379	0.0005	Yes	
Bluebunch Wheatgrass Grassland	B-Closed	U-A-Early Shrub	Wild-Horse-Grazing	0.0180	0.0005	Yes	
Bluebunch Wheatgrass Grassland	B-Closed	U-B-SAP	AS-Invasion	0.0010		No	
Bluebunch Wheatgrass Grassland	C-Open	A-All	ReplacementFire	0.0150		Yes	
Bluebunch Wheatgrass Grassland	C-Open	A-All	Refire	0.0000		Yes	
Bluebunch Wheatgrass Grassland	C-Open	B-Closed	Severe-Drought	0.0070	0.1000	Yes	
Bluebunch Wheatgrass Grassland	C-Open	B-Closed	Snow-Deposition	0.0670		Yes	
Bluebunch Wheatgrass Grassland	C-Open	C-Open	EarlySpring-Cattle-Grazing-byYr	0.0379	0.9995	No	
Bluebunch Wheatgrass Grassland	C-Open	C-Open	Fall-Cattle-Grazing-byYr	0.0048	0.9995	No	
Bluebunch Wheatgrass Grassland	C-Open	C-Open	FeralHorse-Grazing	0.0180	0.9990	2	No
Bluebunch Wheatgrass Grassland	C-Open	C-Open	Late-Spring-Cattle-Grazing-byYr	0.0379	0.9990	1	No
Bluebunch Wheatgrass Grassland	C-Open	C-Open	Severe-Drought	0.0070	0.9000	Yes	
Bluebunch Wheatgrass Grassland	C-Open	C-Open	Summer-Cattle-Grazing-byYr	0.0048	0.9995	No	
Bluebunch Wheatgrass Grassland	C-Open	C-Open	Wild-Horse-Grazing	0.0180	0.9990	2	No
Bluebunch Wheatgrass Grassland	C-Open	U-A-Bare Ground	EarlySpring-Cattle-Grazing-byYr	0.0379	0.0005	Yes	
Bluebunch Wheatgrass Grassland	C-Open	U-A-Bare Ground	Fall-Cattle-Grazing-byYr	0.0048	0.0005	Yes	
Bluebunch Wheatgrass Grassland	C-Open	U-A-Bare Ground	FeralHorse-Grazing	0.0180	0.0005	Yes	
Bluebunch Wheatgrass Grassland	C-Open	U-A-Bare Ground	Late-Spring-Cattle-Grazing-byYr	0.0379	0.0005	1	No
Bluebunch Wheatgrass Grassland	C-Open	U-A-Bare Ground	Summer-Cattle-Grazing-byYr	0.0048	0.0005	Yes	
Bluebunch Wheatgrass Grassland	C-Open	U-A-Bare Ground	Wild-Horse-Grazing	0.0180	0.0005	Yes	
Bluebunch Wheatgrass Grassland	C-Open	U-C-Depleted	FeralHorse-Grazing	0.0180	0.0005	Yes	
Bluebunch Wheatgrass Grassland	C-Open	U-C-Depleted	Late-Spring-Cattle-Grazing-byYr	0.0379	0.0005	Yes	
Bluebunch Wheatgrass Grassland	C-Open	U-C-Depleted	Wild-Horse-Grazing	0.0180	0.0005	1	No
Bluebunch Wheatgrass Grassland	C-Open	U-C-SAP	AS-Invasion	0.0025		No	
Bluebunch Wheatgrass Grassland	C-Open	U-C-TEA	Tree-Encroachment	0.0050		Yes	
Bluebunch Wheatgrass Grassland	U-A-Annual Spp	U-A-Annual Spp	EarlySpring-Cattle-Grazing-byYr	0.0379		3	No
Bluebunch Wheatgrass Grassland	U-A-Annual Spp	U-A-Annual Spp	Fall-Cattle-Grazing-byYr	0.0048		3	No
Bluebunch Wheatgrass Grassland	U-A-Annual Spp	U-A-Annual Spp	FeralHorse-Grazing	0.0180		2	No
Bluebunch Wheatgrass Grassland	U-A-Annual Spp	U-A-Annual Spp	ReplacementFire	0.1000		Yes	1
Bluebunch Wheatgrass Grassland	U-A-Annual Spp	U-A-Annual Spp	Wild-Horse-Grazing	0.0180		2	No
Bluebunch Wheatgrass Grassland	U-A-Annual Spp	U-A-Annual Spp	AS-Invasion	0.0050		No	
Bluebunch Wheatgrass Grassland	U-A-Bare Ground	U-A-Bare Ground	Weed-Inventories/Spot-Treat	0.0100		No	3
Bluebunch Wheatgrass Grassland	U-A-Bare Ground	U-A-Early Shrub	Alternate-Succession	0.0379		3	Yes
Bluebunch Wheatgrass Grassland	U-A-Early Shrub	U-A-Early Shrub	ReplacementFire	0.0150		Yes	
Bluebunch Wheatgrass Grassland	U-A-SAP	A-All	Herbicide-Plateau+Native-Seed	0.0000	0.8000	Yes	
Bluebunch Wheatgrass Grassland	U-A-SAP	U-A-Annual Spp	EarlySpring-Cattle-Grazing-byYr	0.0379	0.0005	3	No
Bluebunch Wheatgrass Grassland	U-A-SAP	U-A-Annual Spp	Fall-Cattle-Grazing-byYr	0.0048	0.0005	3	No
Bluebunch Wheatgrass Grassland	U-A-SAP	U-A-Annual Spp	FeralHorse-Grazing	0.0180	0.0010	3	No
Bluebunch Wheatgrass Grassland	U-A-SAP	U-A-Annual Spp	Late-Spring-Cattle-Grazing-byYr	0.0379	0.0010	3	1 No
Bluebunch Wheatgrass Grassland	U-A-SAP	U-A-Annual Spp	ReplacementFire	0.0400	0.5000	Yes	1
Bluebunch Wheatgrass Grassland	U-A-SAP	U-A-Annual Spp	Summer-Cattle-Grazing-byYr	0.0048	0.0005	3	No
Bluebunch Wheatgrass Grassland	U-A-SAP	U-A-Annual Spp	Wild-Horse-Grazing	0.0180	0.0010	No	
Bluebunch Wheatgrass Grassland	U-A-SAP	U-A-SAP	EarlySpring-Cattle-Grazing-byYr	0.0379	0.9995	3	No
Bluebunch Wheatgrass Grassland	U-A-SAP	U-A-SAP	Fall-Cattle-Grazing-byYr	0.0048	0.9995	3	No
Bluebunch Wheatgrass Grassland	U-A-SAP	U-A-SAP	FeralHorse-Grazing	0.0180	0.9990	2	No
Bluebunch Wheatgrass Grassland	U-A-SAP	U-A-SAP	Herbicide-Plateau+Native-Seed	0.0000	0.2000	Yes	
Bluebunch Wheatgrass Grassland	U-A-SAP	U-A-SAP	Late-Spring-Cattle-Grazing-byYr	0.0379	0.9990	3	1 No
Bluebunch Wheatgrass Grassland	U-A-SAP	U-A-SAP	ReplacementFire	0.0400	0.5000	Yes	1
Bluebunch Wheatgrass Grassland	U-A-SAP	U-A-SAP	Severe-Drought	0.0070		5 Yes	
Bluebunch Wheatgrass Grassland	U-A-SAP	U-A-SAP	Snow-Deposition	0.0670		5 Yes	
Bluebunch Wheatgrass Grassland	U-A-SAP	U-A-SAP	Summer-Cattle-Grazing-byYr	0.0048	0.9995	3	No
Bluebunch Wheatgrass Grassland	U-A-SAP	U-A-SAP	Wild-Horse-Grazing	0.0180	0.9990	2	No
Bluebunch Wheatgrass Grassland	U-A-Unpalat. Forb	U-A-Unpalat. Forb	ReplacementFire	0.0200		Yes	
Bluebunch Wheatgrass Grassland	U-B-SAP	U-A-Annual Spp	EarlySpring-Cattle-Grazing-byYr	0.0379	0.0005	Yes	
Bluebunch Wheatgrass Grassland	U-B-SAP	U-A-Annual Spp	Fall-Cattle-Grazing-byYr	0.0048	0.0005	Yes	
Bluebunch Wheatgrass Grassland	U-B-SAP	U-A-Annual Spp	FeralHorse-Grazing	0.0180	0.0010	Yes	
Bluebunch Wheatgrass Grassland	U-B-SAP	U-A-Annual Spp	Late-Spring-Cattle-Grazing-byYr	0.0379	0.0010	Yes	
Bluebunch Wheatgrass Grassland	U-B-SAP	U-A-Annual Spp	ReplacementFire	0.0250	0.5000	Yes	1

Desert Wash	U-B SA	U-B SA	Wild-Horse-Grazing	0.0130	0.9990	2	No
Desert Wash	U-B SAP	U-A Bare Ground	OHV	0.0010			Yes
Desert Wash	U-B SA	U-A SA	Early-Spring-Cattle-Grazing-byYr	0.0408	0.0005		Yes
Desert Wash	U-B SAP	U-A SA	Fall-Cattle-Grazing-byYr	0.0052	0.0005		Yes
Desert Wash	U-B SA	U-A SA	FeralHorse-Grazing	0.0130	0.0005		Yes
Desert Wash	U-B SAP	U-A SA	Late-Spring-Cattle-Grazing-byYr	0.0408	0.0005		Yes
Desert Wash	U-B SA	U-A SA	Summer-Cattle-Grazing-byYr	0.0052	0.0005		Yes
Desert Wash	U-B SAP	U-A SA	Wild-Horse-Grazing	0.0130	0.0005		Yes
Desert Wash	U-B SAP	U-A SAP	Flash-Flooding	0.0200			Yes
Desert Wash	U-B SAP	U-A SAP	ReplacementFire	0.0001			Yes
Desert Wash	U-B SAP	U-B Exotic Forb&Tree	Exotic-Invasion	0.0050			No
Desert Wash	U-B SAP	U-B SA	FeralHorse-Grazing	0.0130	0.0005		No
Desert Wash	U-B SA	U-B SA	Late-Spring-Cattle-Grazing-byYr	0.0408	0.0005		1
Desert Wash	U-B SA	U-B SA	Wild-Horse-Grazing	0.0130	0.0005		No
Desert Wash	U-B SAP	U-B SAP	Early-Spring-Cattle-Grazing-byYr	0.0408	0.9995		No
Desert Wash	U-B SAP	U-B SAP	Fall-Cattle-Grazing-byYr	0.0052	0.9995		No
Desert Wash	U-B SAP	U-B SAP	FeralHorse-Grazing	0.0130	0.9990		2
Desert Wash	U-B SAP	U-B SAP	Late-Spring-Cattle-Grazing-byYr	0.0408	0.9990		1
Desert Wash	U-B SAP	U-B SAP	Summer-Cattle-Grazing-byYr	0.0052	0.9995		No
Desert Wash	U-B SAP	U-B SAP	Weed-InventoriesSpot-Treat	0.0100			No
Desert Wash	U-B SAP	U-B SAP	Wild-Horse-Grazing	0.0130	0.9990		3
Four-Wing Saltbush	A.All	A.All	Early-Spring-Cattle-Grazing-byYr	0.0050	0.9995		-1
Four-Wing Saltbush	A.All	A.All	Fall-Cattle-Grazing-byYr	0.0027	0.9995		No
Four-Wing Saltbush	A.All	A.All	FeralHorse-Grazing	0.0050	0.9990		2
Four-Wing Saltbush	A.All	A.All	Late-Spring-Cattle-Grazing-byYr	0.0050	0.9990		1
Four-Wing Saltbush	A.All	A.All	NativeGrazing	0.0200			Yes
Four-Wing Saltbush	A.All	A.All	Summer-Cattle-Grazing-byYr	0.0027	0.9995		No
Four-Wing Saltbush	A.All	A.All	Very-Web-Year	0.0181			Yes
Four-Wing Saltbush	A.All	A.All	Wild-Horse-Grazing	0.0050	0.9990		2
Four-Wing Saltbush	A.All	U-A Bare Ground	Early-Spring-Cattle-Grazing-byYr	0.0050	0.0005		No
Four-Wing Saltbush	A.All	U-A Bare Ground	Fall-Cattle-Grazing-byYr	0.0027	0.0005		Yes
Four-Wing Saltbush	A.All	U-A Bare Ground	FeralHorse-Grazing	0.0050	0.0010		No
Four-Wing Saltbush	A.All	U-A Bare Ground	Late-Spring-Cattle-Grazing-byYr	0.0050	0.0005		No
Four-Wing Saltbush	A.All	U-A Bare Ground	Summer-Cattle-Grazing-byYr	0.0027	0.0005		No
Four-Wing Saltbush	A.All	U-A Bare Ground	Wild-Horse-Grazing	0.0050	0.0010		No
Four-Wing Saltbush	A.All	U-A Depleted	Late-Spring-Cattle-Grazing-byYr	0.0050	0.0005		1
Four-Wing Saltbush	A.All	U-A SAP	AS-Invasion	0.0025			No
Four-Wing Saltbush	B.Open	A.All	Severe-Drought	0.0070	0.1000		Yes
Four-Wing Saltbush	B.Open	A.All	Very-Web-Year	0.0181			Yes
Four-Wing Saltbush	B.Open	B.Open	Early-Spring-Cattle-Grazing-byYr	0.0050	0.9995		-1
Four-Wing Saltbush	B.Open	B.Open	Fall-Cattle-Grazing-byYr	0.0027	0.9995		No
Four-Wing Saltbush	B.Open	B.Open	FeralHorse-Grazing	0.0050	0.9990		2
Four-Wing Saltbush	B.Open	B.Open	Late-Spring-Cattle-Grazing-byYr	0.0027	0.9990		1
Four-Wing Saltbush	B.Open	B.Open	NativeGrazing	0.0200			-1
Four-Wing Saltbush	B.Open	B.Open	Severe-Drought	0.0070	0.9000		Yes
Four-Wing Saltbush	B.Open	B.Open	Summer-Cattle-Grazing-byYr	0.0027	0.9995		0
Four-Wing Saltbush	B.Open	B.Open	Wild-Horse-Grazing	0.0050	0.9990		2
Four-Wing Saltbush	B.Open	U-A Bare Ground	Early-Spring-Cattle-Grazing-byYr	0.0050	0.0005		Yes
Four-Wing Saltbush	B.Open	U-A Bare Ground	Fall-Cattle-Grazing-byYr	0.0027	0.0005		Yes
Four-Wing Saltbush	B.Open	U-A Bare Ground	FeralHorse-Grazing	0.0050	0.0005		Yes
Four-Wing Saltbush	B.Open	U-A Bare Ground	Late-Spring-Cattle-Grazing-byYr	0.0027	0.0005		Yes
Four-Wing Saltbush	B.Open	U-A Bare Ground	Summer-Cattle-Grazing-byYr	0.0027	0.0005		Yes
Four-Wing Saltbush	B.Open	U-A Bare Ground	Wild-Horse-Grazing	0.0050	0.0005		Yes
Four-Wing Saltbush	B.Open	U-B Depleted	Late-Spring-Cattle-Grazing-byYr	0.0027	0.0005		1
Four-Wing Saltbush	B.Open	U-B Depleted	Wild-Horse-Grazing	0.0050	0.0005		No
Four-Wing Saltbush	B.Open	U-B SAP	AS-Invasion	0.0025			No
Four-Wing Saltbush	C.Closed	A.All	Very-Web-Year	0.0181			Yes
Four-Wing Saltbush	C.Closed	B.Open	Severe-Drought	0.0070			Yes
Four-Wing Saltbush	C.Closed	C.Closed	Early-Spring-Cattle-Grazing-byYr	0.0050	0.9995		-1
Four-Wing Saltbush	C.Closed	C.Closed	Fall-Cattle-Grazing-byYr	0.0027	0.9995		No
Four-Wing Saltbush	C.Closed	C.Closed	FeralHorse-Grazing	0.0050	0.9990		2
Four-Wing Saltbush	C.Closed	C.Closed	Late-Spring-Cattle-Grazing-byYr	0.0050	0.9990		1
Four-Wing Saltbush	C.Closed	C.Closed	NativeGrazing	0.0200			No
Four-Wing Saltbush	C.Closed	C.Closed	Summer-Cattle-Grazing-byYr	0.0027	0.9995		No
Four-Wing Saltbush	C.Closed	C.Closed	Wild-Horse-Grazing	0.0050	0.9990		2
Four-Wing Saltbush	C.Closed	U-A Bare Ground	Early-Spring-Cattle-Grazing-byYr	0.0050	0.0005		Yes
Four-Wing Saltbush	C.Closed	U-A Bare Ground	Fall-Cattle-Grazing-byYr	0.0027	0.0005		Yes
Four-Wing Saltbush	C.Closed	U-A Bare Ground	FeralHorse-Grazing	0.0050	0.0005		Yes
Four-Wing Saltbush	C.Closed	U-A Bare Ground	Late-Spring-Cattle-Grazing-byYr	0.0027	0.0005		No
Four-Wing Saltbush	C.Closed	U-A Bare Ground	Summer-Cattle-Grazing-byYr	0.0027	0.0005		Yes
Four-Wing Saltbush	C.Closed	U-A Bare Ground	Wild-Horse-Grazing	0.0050	0.0005		Yes
Four-Wing Saltbush	C.Closed	U-B SAP	AS-Invasion	0.0025			No
Four-Wing Saltbush	C.Closed	U-C Depleted	FeralHorse-Grazing	0.0050	0.0005		No
Four-Wing Saltbush	C.Closed	U-C Depleted	Late-Spring-Cattle-Grazing-byYr	0.0050	0.0005		1
Four-Wing Saltbush	C.Closed	U-C Depleted	Wild-Horse-Grazing	0.0050	0.0005		No
Four-Wing Saltbush	U-A Annual Spp	A.All	Herbicide-Plateau-Native-Seed	0.0000	0.6000		Yes
Four-Wing Saltbush	U-A Annual Spp	U-A Annual Spp	Early-Spring-Cattle-Grazing-byYr	0.0050		3	No
Four-Wing Saltbush	U-A Annual Spp	U-A Annual Spp	Fall-Cattle-Grazing-byYr	0.0027		3	No
Four-Wing Saltbush	U-A Annual Spp	U-A Annual Spp	FeralHorse-Grazing	0.0050			2
Four-Wing Saltbush	U-A Annual Spp	U-A Annual Spp	Herbicide-Plateau-Native-Seed	0.0000	0.2000		Yes
Four-Wing Saltbush	U-A Annual Spp	U-A Annual Spp	ReplacemntFire	0.0100			1
Four-Wing Saltbush	U-A Annual Spp	U-A Annual Spp	Wild-Horse-Grazing	0.0050			2
Four-Wing Saltbush	U-A Annual Spp	U-A Exotic Forbs	Exotic-Invasion	0.0005			Yes
Four-Wing Saltbush	U-A Annual Spp	U-A SAP	Herbicide-Plateau-Native-Seed	0.0000	0.2000		Yes
Four-Wing Saltbush	U-A Bare Ground	U-A Annual Spp	AS-Invasion	0.0050			No
Four-Wing Saltbush	U-A Bare Ground	U-A Depleted	Alteme-Succession	0.0050		5	Yes
Four-Wing Saltbush	U-A Bare Ground	U-A Exotic Forbs	Exotic-Invasion	0.0005			No
Four-Wing Saltbush	U-A Depleted	U-A Annual Spp	AS-Invasion	0.0010			No
Four-Wing Saltbush	U-A Depleted	U-A Bare Ground	Early-Spring-Cattle-Grazing-byYr	0.0050	0.0005		Yes
Four-Wing Saltbush	U-A Depleted	U-A Bare Ground	Fall-Cattle-Grazing-byYr	0.0027	0.0005		Yes
Four-Wing Saltbush	U-A Depleted	U-A Bare Ground	FeralHorse-Grazing	0.0050	0.0010		Yes
Four-Wing Saltbush	U-A Depleted	U-A Bare Ground	Late-Spring-Cattle-Grazing-byYr	0.0050	0.0010		Yes
Four-Wing Saltbush	U-A Depleted	U-A Bare Ground	Summer-Cattle-Grazing-byYr	0.0027	0.0005		Yes
Four-Wing Saltbush	U-A Depleted	U-A Bare Ground	Wild-Horse-Grazing	0.0050	0.0010		No
Four-Wing Saltbush	U-A Depleted	U-A Depleted	Early-Spring-Cattle-Grazing-byYr	0.0050	0.9995		-1
Four-Wing Saltbush	U-A Depleted	U-A Depleted	Fall-Cattle-Grazing-byYr	0.0027	0.9995		No
Four-Wing Saltbush	U-A Depleted	U-A Depleted	FeralHorse-Grazing	0.0050	0.9990		2
Four-Wing Saltbush	U-A Depleted	U-A Depleted	Late-Spring-Cattle-Grazing-byYr	0.0050	0.9990		1
Four-Wing Saltbush	U-A Depleted	U-A Depleted	NativeGrazing	0.0200			Yes
Four-Wing Saltbush	U-A Depleted	U-A Depleted	Summer-Cattle-Grazing-byYr	0.0027	0.9995		No
Four-Wing Saltbush	U-A Depleted	U-A Depleted	Very-Web-Year	0.0181			No
Four-Wing Saltbush	U-A Depleted	U-A Depleted	Wild-Horse-Grazing	0.0050	0.9990		2
Four-Wing Saltbush	U-A Depleted	U-A Exotic Forbs	Exotic-Invasion	0.0005			Yes
Four-Wing Saltbush	U-A Exotic Forbs	A.All	Exotic-Control	0.0100	0.5000		Yes
Four-Wing Saltbush	U-A Exotic Forbs	U-A Exotic Forbs	Exotic-Control	0.0100	0.5000		20
Four-Wing Saltbush	U-A Pasture	U-A Pasture	Early-Spring-Cattle-Grazing-byYr	0.0050			No
Four-Wing Saltbush	U-A Pasture	U-A Pasture	Fall-Cattle-Grazing-byYr	0.0027			No
Four-Wing Saltbush	U-A Pasture	U-A Pasture	FeralHorse-Grazing	0.0050			No
Four-Wing Saltbush	U-A Pasture	U-A Pasture	Late-Spring-Cattle-Grazing-byYr	0.0050			No
Four-Wing Saltbush	U-A Pasture	U-A Pasture	Summer-Cattle-Grazing-byYr	0.0027			No
Four-Wing Saltbush	U-A Pasture	U-A Pasture	Wild-Horse-Grazing	0.0050			No
Four-Wing Saltbush	U-A SAP	U-A Annual Spp	Early-Spring-Cattle-Grazing-byYr	0.0050	0.0005	3	Yes
Four-Wing Saltbush	U-A SAP	U-A Annual Spp	Fall-Cattle-Grazing-byYr	0.0027	0.0005	3	Yes
Four-Wing Saltbush	U-A SAP	U-A Annual Spp	FeralHorse-Grazing	0.0050	0.0010	3	Yes
Four-Wing Saltbush	U-A SAP	U-A Annual Spp	Late-Spring-Cattle-Grazing-byYr	0.0050	0.0010	3	Yes
Four-Wing Saltbush	U-A SAP	U-A Annual Spp	ReplacementFire	0.0100			Yes
Four-Wing Saltbush	U-A SAP	U-A Annual Spp	Summer-Cattle-Grazing-byYr	0.0027	0.0005	3	Yes

Greasewood	U-B-SI	U-B-SI	Fall-Cattle-Grazing-byYr	0.0011				No
Greasewood	U-B-SI	U-B-SI	FeralHorse-Grazing	0.0050				2 No
Greasewood	U-B-SI	U-B-SI	Late-Spring-Cattle-Grazing-byYr	0.0088				1 No
Greasewood	U-B-SI	U-B-SI	Summer-Cattle-Grazing-byYr	0.0011				No
Greasewood	U-B-SI	U-B-SI	Wild-Horse-Grazing	0.0050				2 No
Greasewood	U-B-SI	U-SHAS	AS-Invasion	0.0010				No
Greasewood	U-B-SI	U-A-Pasture	Irrigation	0.0100		2	4	Yes
Greasewood	U-B-SHAS	U-A-SHAS	ReplacementFire	0.0010				Yes
Greasewood	U-B-SHAS	U-B-SI	Competition	0.3300				1
Greasewood	U-B-SHAS	U-B-SHAS	Early-Spring-Cattle-Grazing-byYr	0.0088				5
Greasewood	U-B-SHAS	U-B-SHAS	Fall-Cattle-Grazing-byYr	0.0011				No
Greasewood	U-B-SHAS	U-B-SHAS	FeralHorse-Grazing	0.0050				2 No
Greasewood	U-B-SHAS	U-B-SHAS	Late-Spring-Cattle-Grazing-byYr	0.0088				1 No
Greasewood	U-B-SHAS	U-B-SHAS	Summer-Cattle-Grazing-byYr	0.0011				No
Greasewood	U-B-SHAS	U-B-SHAS	Wet-Year	0.0670				No
Greasewood	U-B-SHAS	U-B-SHAS	Wild-Horse-Grazing	0.0050				2 No
Greasewood	U-B-SHAS	U-A-Pasture	Irrigation	0.0100		2	4	Yes
Limber Pine Woodland	A-All	A-All	ReplacementFire	0.0010				Yes
Limber Pine Woodland	A-All	A-All	Severe-Drought	0.0070				-5 No
Limber Pine Woodland	A-All	A-All	SurfaceFire	0.0010				No
Limber Pine Woodland	B-Open	A-All	ReplacementFire	0.0010				Yes
Limber Pine Woodland	B-Open	B-Open	SurfaceFire	0.0020				No
Limber Pine Woodland	C-Open	A-All	ReplacementFire	0.0010				Yes
Limber Pine Woodland	C-Open	C-Open	SurfaceFire	0.0020				No
Low Sagebrush	A-All	A-All	Early-Spring-Cattle-Grazing-byYr	0.0438	0.9995	3		No
Low Sagebrush	A-All	A-All	Fall-Cattle-Grazing-byYr	0.0056	0.9995	3		No
Low Sagebrush	A-All	A-All	FeralHorse-Grazing	0.0080	0.9990	2		No
Low Sagebrush	A-All	A-All	Late-Spring-Cattle-Grazing-byYr	0.0438	0.9990	3		1 No
Low Sagebrush	A-All	A-All	ReplacementFire	0.0010				Yes
Low Sagebrush	A-All	A-All	Summer-Cattle-Grazing-byYr	0.0056	0.9995	3		No
Low Sagebrush	A-All	A-All	Wild-Horse-Grazing	0.0080	0.9990	2		No
Low Sagebrush	A-All	U-A-Bare Ground	Early-Spring-Cattle-Grazing-byYr	0.0438	0.0005	3		Yes
Low Sagebrush	A-All	U-A-Bare Ground	Fall-Cattle-Grazing-byYr	0.0056	0.0005	3		Yes
Low Sagebrush	A-All	U-A-Bare Ground	FeralHorse-Grazing	0.0080	0.0005	2		Yes
Low Sagebrush	A-All	U-A-Bare Ground	Late-Spring-Cattle-Grazing-byYr	0.0438	0.0005	3		Yes
Low Sagebrush	A-All	U-A-Bare Ground	Summer-Cattle-Grazing-byYr	0.0056	0.0005	3		Yes
Low Sagebrush	A-All	U-A-Bare Ground	Wild-Horse-Grazing	0.0080	0.0005	2		Yes
Low Sagebrush	A-All	U-A-Early Shrub	Wild-Horse-Grazing	0.0080	0.0005	2		Yes
Low Sagebrush	A-All	U-A-Early Shrub	Late-Spring-Cattle-Grazing-byYr	0.0438	0.0005	3		Yes
Low Sagebrush	A-All	U-A-Early Shrub	Wild-Horse-Grazing	0.0080	0.0005	2		Yes
Low Sagebrush	A-All	U-A-SAP	AS-Invasion	0.0025				No
Low Sagebrush	B-Open	A-All	ReplacementFire	0.0040				Yes
Low Sagebrush	B-Open	A-All	Severe-Drought	0.0070	0.1000			Yes
Low Sagebrush	B-Open	B-Open	Early-Spring-Cattle-Grazing-byYr	0.0438	0.9995			No
Low Sagebrush	B-Open	B-Open	Fall-Cattle-Grazing-byYr	0.0056	0.9995			No
Low Sagebrush	B-Open	B-Open	FeralHorse-Grazing	0.0080	0.9990			2 No
Low Sagebrush	B-Open	B-Open	Late-Spring-Cattle-Grazing-byYr	0.0438	0.9990			1 No
Low Sagebrush	B-Open	B-Open	Severe-Drought	0.0070	0.9000			Yes
Low Sagebrush	B-Open	B-Open	Summer-Cattle-Grazing-byYr	0.0056	0.9995			No
Low Sagebrush	B-Open	B-Open	Wild-Horse-Grazing	0.0080	0.9990			Yes
Low Sagebrush	B-Open	U-A-Bare Ground	Early-Spring-Cattle-Grazing-byYr	0.0438	0.0005			Yes
Low Sagebrush	B-Open	U-A-Bare Ground	Fall-Cattle-Grazing-byYr	0.0056	0.0005			Yes
Low Sagebrush	B-Open	U-A-Bare Ground	FeralHorse-Grazing	0.0080	0.0005			Yes
Low Sagebrush	B-Open	U-A-Bare Ground	Late-Spring-Cattle-Grazing-byYr	0.0438	0.0005			Yes
Low Sagebrush	B-Open	U-A-Bare Ground	Summer-Cattle-Grazing-byYr	0.0056	0.0005			Yes
Low Sagebrush	B-Open	U-A-Bare Ground	Wild-Horse-Grazing	0.0080	0.0005			Yes
Low Sagebrush	B-Open	U-A-Early Shrub	FeralHorse-Grazing	0.0080	0.0005			Yes
Low Sagebrush	B-Open	U-A-Early Shrub	Wild-Horse-Grazing	0.0080	0.0005			Yes
Low Sagebrush	B-Open	U-B-Early Shrub	Late-Spring-Cattle-Grazing-byYr	0.0438	0.0005			Yes
Low Sagebrush	C-Closed	U-A-SAP	AS-Invasion	0.0025				No
Low Sagebrush	C-Closed	A-All	ReplacementFire	0.0040				Yes
Low Sagebrush	C-Closed	B-Open	Severe-Drought	0.0070	0.1000			Yes
Low Sagebrush	C-Closed	C-Closed	Early-Spring-Cattle-Grazing-byYr	0.0438	0.9995			No
Low Sagebrush	C-Closed	C-Closed	Fall-Cattle-Grazing-byYr	0.0056	0.9995			No
Low Sagebrush	C-Closed	C-Closed	FeralHorse-Grazing	0.0080	0.9990			2 No
Low Sagebrush	C-Closed	C-Closed	Late-Spring-Cattle-Grazing-byYr	0.0438	0.9990			1 No
Low Sagebrush	C-Closed	C-Closed	Severe-Drought	0.0070	0.9000			Yes
Low Sagebrush	C-Closed	C-Closed	Summer-Cattle-Grazing-byYr	0.0056	0.9995			No
Low Sagebrush	C-Closed	C-Closed	Wild-Horse-Grazing	0.0080	0.9990			2 No
Low Sagebrush	C-Open	D-Open	Tree-Invasion	0.0010		120		Yes
Low Sagebrush	C-Open	U-A-Bare Ground	Early-Spring-Cattle-Grazing-byYr	0.0438	0.0005			Yes
Low Sagebrush	C-Open	U-A-Bare Ground	Fall-Cattle-Grazing-byYr	0.0056	0.0005			Yes
Low Sagebrush	C-Open	U-A-Bare Ground	FeralHorse-Grazing	0.0080	0.0005			Yes
Low Sagebrush	C-Open	U-A-Bare Ground	Late-Spring-Cattle-Grazing-byYr	0.0438	0.0005			Yes
Low Sagebrush	C-Open	U-A-Bare Ground	Summer-Cattle-Grazing-byYr	0.0056	0.0005			Yes
Low Sagebrush	C-Open	U-A-Bare Ground	Wild-Horse-Grazing	0.0080	0.0005			Yes
Low Sagebrush	C-Open	U-C-Depleted	FeralHorse-Grazing	0.0080	0.0005			Yes
Low Sagebrush	C-Open	U-C-Depleted	Late-Spring-Cattle-Grazing-byYr	0.0438	0.0005			1 No
Low Sagebrush	C-Open	U-C-Depleted	Wild-Horse-Grazing	0.0080	0.0005			Yes
Low Sagebrush	C-Open	U-CSAP	AS-Invasion	0.0025				No
Low Sagebrush	D-Open	A-All	Chainsaw-Thinning	0.0100	0.1000			Yes
Low Sagebrush	D-Open	A-All	ReplacementFire	0.0040				Yes
Low Sagebrush	D-Open	B-Open	Chainsaw-Thinning	0.0100	0.9000			Yes
Low Sagebrush	D-Open	C-Closed	Severe-Drought	0.0070	0.1000			Yes
Low Sagebrush	D-Open	D-Open	Severe-Drought	0.0070	0.9000			5 No
Low Sagebrush	D-Open	U-D-TEA	AS-Invasion	0.0025				No
Low Sagebrush	D-Open	U-D-TEA	Tree-Invasion	0.0010		250		No
Low Sagebrush	U-A-Annual Spp	U-A-Annual Spp	BLM-Post-Fire-Rab	0.0100	0.6500		3	1
Low Sagebrush	U-A-Annual Spp	U-A-Annual Spp	Early-Spring-Cattle-Grazing-byYr	0.0438			3	Yes
Low Sagebrush	U-A-Annual Spp	U-A-Annual Spp	Fall-Cattle-Grazing-byYr	0.0056			3	Yes
Low Sagebrush	U-A-Annual Spp	U-A-Annual Spp	FeralHorse-Grazing	0.0080			2	No
Low Sagebrush	U-A-Annual Spp	U-A-Annual Spp	Herbicide-Plateau&SeedShrub-Planting	0.0100	0.1500			No
Low Sagebrush	U-A-Annual Spp	U-A-Annual Spp	ReplacementFire	0.1000				1
Low Sagebrush	U-A-Annual Spp	U-A-Annual Spp	Wild-Horse-Grazing	0.0080			2	No
Low Sagebrush	U-A-Annual Spp	U-A-Exotic Forbs	Exotic-Invasion	0.0015				Yes
Low Sagebrush	U-A-Annual Spp	U-A-SI	BLM-Post-Fire-Rab	0.0100	0.1750		3	1
Low Sagebrush	U-A-Annual Spp	U-A-SI	Herbicide-Plateau&SeedShrub-Planting	0.0100	0.7000			Yes
Low Sagebrush	U-A-Annual Spp	U-A-SHAS	BLM-Post-Fire-Rab	0.0100	0.1750		3	1
Low Sagebrush	U-A-Annual Spp	U-A-SHAS	Herbicide-Plateau&SeedShrub-Planting	0.0100	0.1500			Yes
Low Sagebrush	U-A-Bare Ground	U-A-Annual Spp	AS-Invasion	0.0050				Yes
Low Sagebrush	U-A-Bare Ground	U-A-Early Shrub	Alternate-Succession	0.0438			3	Yes
Low Sagebrush	U-A-Bare Ground	U-A-Early Shrub	Exotic-Invasion	0.0005				Yes
Low Sagebrush	U-A-Early Shrub	U-A-Early Shrub	ReplacementFire	0.0067				Yes
Low Sagebrush	U-A-Early Shrub	U-A-Early Shrub	Exotic-Invasion	0.0005				No
Low Sagebrush	U-A-Early Shrub	U-A-Early Shrub	Exotic-Invasion	0.0005				No
Low Sagebrush	U-A-Early Shrub	U-A-Early Shrub	Early-Spring-Cattle-Grazing-byYr	0.0438			3	Yes
Low Sagebrush	U-A-Early Shrub	U-A-Early Shrub	Exotic-Control	0.0100	0.2000			No
Low Sagebrush	U-A-Early Shrub	U-A-Early Shrub	Fall-Cattle-Grazing-byYr	0.0056			3	20
Low Sagebrush	U-A-Early Shrub	U-A-Early Shrub	FeralHorse-Grazing	0.0080			3	No
Low Sagebrush	U-A-Early Shrub	U-A-Early Shrub	Late-Spring-Cattle-Grazing-byYr	0.0438			3	2 No
Low Sagebrush	U-A-Early Shrub	U-A-Early Shrub	ReplacementFire	0.0067				Yes
Low Sagebrush	U-A-Early Shrub	U-A-Early Shrub	Summer-Cattle-Grazing-byYr	0.0056			3	No
Low Sagebrush	U-A-Early Shrub	U-A-Early Shrub	Wild-Horse-Grazing	0.0080			3	2 No
Low Sagebrush	U-A-Early Shrub	U-A-Early Shrub	Exotic-Control	0.0100	0.8000			Yes
Low Sagebrush	U-A-Early Shrub	U-A-Early Shrub	Early-Spring-Cattle-Grazing-byYr	0.0438	0.0005		3	Yes
Low Sagebrush	U-A-Early Shrub	U-A-Early Shrub	Fall-Cattle-Grazing-byYr	0.0056	0.0005		3	Yes
Low Sagebrush	U-A-Early Shrub	U-A-Early Shrub	FeralHorse-Grazing	0.0080	0.0010		3	2 No
Low Sagebrush	U-A-Early Shrub	U-A-Early Shrub	Late-Spring-Cattle-Grazing-byYr	0.0438	0.0010		3	1 No
Low Sagebrush	U-A-Early Shrub	U-A-Early Shrub	ReplacementFire	0.0100	0.5000			Yes

Low Sagebrush	U-A SAP	U-A Annual Spp	Summer-Cattle-Grazing-byYr	0.0056	0.0005	3		Yes
Low Sagebrush	U-A SAP	U-A Annual Spp	Wild-Horse-Grazing	0.0080	0.0010			2 No
Low Sagebrush	U-A SAP	U-A Exotic Forbs	Exotic-Invasion	0.0005				No
Low Sagebrush	U-A SAP	U-A SAP	BLM-Post-Fire-Rabb	0.0100	0.6500		3	No
Low Sagebrush	U-A SAP	U-A SAP	Early-Spring-Cattle-Grazing-byYr	0.0438	0.9995	3		No
Low Sagebrush	U-A SAP	U-A SAP	Fall-Cattle-Grazing-byYr	0.0056	0.9995	3		No
Low Sagebrush	U-A SAP	U-A SAP	FeralHorse-Grazing	0.0080	0.9990			2 No
Low Sagebrush	U-A SAP	U-A SAP	Late-Spring-Cattle-Grazing-byYr	0.0438	0.9990	3		1 No
Low Sagebrush	U-A SAP	U-A SAP	Wild-Horse-Grazing	0.0080	0.5000			2 No
Low Sagebrush	U-A SAP	U-A SAP	Severe-Drought	0.0070	0.1000			Yes
Low Sagebrush	U-A SAP	U-A SAP	Severe-Drought	0.0070	0.9000			-1 No
Low Sagebrush	U-A SAP	U-A SAP	Summer-Cattle-Grazing-byYr	0.0056	0.9995	3		No
Low Sagebrush	U-A SAP	U-A SAP	Wild-Horse-Grazing	0.0080	0.9990			2 No
Low Sagebrush	U-A SAP	U-ASI	BLM-Post-Fire-Rabb	0.0100	0.1750		3	Yes
Low Sagebrush	U-A SAP	U-ASHAS	BLM-Post-Fire-Rabb	0.0100	0.1750		3	Yes
Low Sagebrush	U-A Seeded Native	A All	NaturalRecovery	0.3300				No
Low Sagebrush	U-A Seeded Native	U-A Bare Ground	Early-Spring-Cattle-Grazing-byYr	0.0438	0.0005	6		Yes
Low Sagebrush	U-A Seeded Native	U-A Bare Ground	Fall-Cattle-Grazing-byYr	0.0056	0.0005	6		Yes
Low Sagebrush	U-A Seeded Native	U-A Bare Ground	FeralHorse-Grazing	0.0080	0.0005	6		No
Low Sagebrush	U-A Seeded Native	U-A Bare Ground	Late-Spring-Cattle-Grazing-byYr	0.0438	0.0010	6		Yes
Low Sagebrush	U-A Seeded Native	U-A Bare Ground	Summer-Cattle-Grazing-byYr	0.0056	0.0010	6		Yes
Low Sagebrush	U-A Seeded Native	U-A Bare Ground	Wild-Horse-Grazing	0.0080	0.0010	6		No
Low Sagebrush	U-A Seeded Native	U-A Early Shrub	Early-Spring-Cattle-Grazing-byYr	0.0438		3	5	Yes
Low Sagebrush	U-A Seeded Native	U-A Early Shrub	Fall-Cattle-Grazing-byYr	0.0056		3	5	Yes
Low Sagebrush	U-A Seeded Native	U-A Early Shrub	FeralHorse-Grazing	0.0080		3	5	No
Low Sagebrush	U-A Seeded Native	U-A Early Shrub	Late-Spring-Cattle-Grazing-byYr	0.0438	0.0010	6		Yes
Low Sagebrush	U-A Seeded Native	U-A Early Shrub	Late-Spring-Cattle-Grazing-byYr	0.0438	0.0010	6		1 No
Low Sagebrush	U-A Seeded Native	U-A Early Shrub	Severe-Drought	0.0070		1	2	Yes
Low Sagebrush	U-A Seeded Native	U-A Early Shrub	Severe-Drought	0.0070	0.1000	3		Yes
Low Sagebrush	U-A Seeded Native	U-A Early Shrub	Summer-Cattle-Grazing-byYr	0.0056		3	5	Yes
Low Sagebrush	U-A Seeded Native	U-A Early Shrub	Wild-Horse-Grazing	0.0080		3	5	No
Low Sagebrush	U-A Seeded Native	U-A Early Shrub	Wild-Horse-Grazing	0.0080	0.0010	6		No
Low Sagebrush	U-A Seeded Native	U-A Exotic Forbs	Exotic-Invasion	0.0005				No
Low Sagebrush	U-A Seeded Native	U-A SAP	AS-Invasion	0.0025				No
Low Sagebrush	U-A Seeded Native	U-A Seeded Native	Early-Spring-Cattle-Grazing-byYr	0.0438	0.9995	6		No
Low Sagebrush	U-A Seeded Native	U-A Seeded Native	Fall-Cattle-Grazing-byYr	0.0056	0.9995	6		No
Low Sagebrush	U-A Seeded Native	U-A Seeded Native	FeralHorse-Grazing	0.0080	0.9990	6		2 No
Low Sagebrush	U-A Seeded Native	U-A Seeded Native	Late-Spring-Cattle-Grazing-byYr	0.0438	0.9990	6		1 No
Low Sagebrush	U-A Seeded Native	U-A Seeded Native	ReplacementFire	0.0040				Yes
Low Sagebrush	U-A Seeded Native	U-A Seeded Native	Severe-Drought	0.0070	0.9000	3		Yes
Low Sagebrush	U-A Seeded Native	U-A Seeded Native	Summer-Cattle-Grazing-byYr	0.0056	0.9995	6		2 No
Low Sagebrush	U-A Seeded Native	U-A Seeded Native	Wild-Horse-Grazing	0.0080	0.9990	6		2 No
Low Sagebrush	U-ASI	U-A Early Shrub	FeralHorse-Grazing	0.0080			2	2 No
Low Sagebrush	U-ASI	U-A Early Shrub	Severe-Drought	0.0070		1	2	Yes
Low Sagebrush	U-ASI	U-A Early Shrub	Wild-Horse-Grazing	0.0080			2	2 No
Low Sagebrush	U-ASI	U-ASI	Early-Spring-Cattle-Grazing-byYr	0.0438		3		No
Low Sagebrush	U-ASI	U-ASI	Fall-Cattle-Grazing-byYr	0.0056		3		No
Low Sagebrush	U-ASI	U-ASI	FeralHorse-Grazing	0.0080		3		2 No
Low Sagebrush	U-ASI	U-ASI	Late-Spring-Cattle-Grazing-byYr	0.0438		3		1 No
Low Sagebrush	U-ASI	U-ASI	ReplacementFire	0.0020		1		Yes
Low Sagebrush	U-ASI	U-ASI	Severe-Drought	0.0070	0.1000	3		Yes
Low Sagebrush	U-ASI	U-ASI	Severe-Drought	0.0070	0.9000	3		-1 No
Low Sagebrush	U-ASI	U-ASI	Summer-Cattle-Grazing-byYr	0.0056		3		Yes
Low Sagebrush	U-ASI	U-ASI	Wild-Horse-Grazing	0.0080		3		2 No
Low Sagebrush	U-ASI	U-ASHAS	AS-Invasion	0.0010		1		No
Low Sagebrush	U-ASHAS	U-A Annual Spp	FeralHorse-Grazing	0.0080		1	2	Yes
Low Sagebrush	U-ASHAS	U-A Annual Spp	Severe-Drought	0.0070		1	2	Yes
Low Sagebrush	U-ASHAS	U-A Annual Spp	Wild-Horse-Grazing	0.0080		1	2	Yes
Low Sagebrush	U-ASHAS	U-ASI	competition	0.3300				3
Low Sagebrush	U-ASHAS	U-ASHAS	Early-Spring-Cattle-Grazing-byYr	0.0438		3		No
Low Sagebrush	U-ASHAS	U-ASHAS	Fall-Cattle-Grazing-byYr	0.0056		3		No
Low Sagebrush	U-ASHAS	U-ASHAS	FeralHorse-Grazing	0.0080		3		2 No
Low Sagebrush	U-ASHAS	U-ASHAS	Late-Spring-Cattle-Grazing-byYr	0.0438		3		1 No
Low Sagebrush	U-ASHAS	U-ASHAS	ReplacementFire	0.0050				Yes
Low Sagebrush	U-ASHAS	U-ASHAS	Severe-Drought	0.0070	0.1000	3		Yes
Low Sagebrush	U-ASHAS	U-ASHAS	Severe-Drought	0.0070	0.9000	3		-1 No
Low Sagebrush	U-ASHAS	U-ASHAS	Summer-Cattle-Grazing-byYr	0.0056		3		No
Low Sagebrush	U-ASHAS	U-ASHAS	Web-Year	0.0070		3		No
Low Sagebrush	U-ASHAS	U-ASHAS	Wild-Horse-Grazing	0.0080		3		2 No
Low Sagebrush	U-A Unplnat. Forb	U-A Unplnat. Forb	ReplacementFire	0.0040				Yes
Low Sagebrush	U-B Depleted	U-A Annual Spp	ReplacementFire	0.0067	0.5000			Yes
Low Sagebrush	U-B Depleted	U-A Early Shrub	ReplacementFire	0.0067	0.5000			Yes
Low Sagebrush	U-B Depleted	U-A Early Shrub	Severe-Drought	0.0070	0.1000			Yes
Low Sagebrush	U-B Depleted	U-A Early Shrub	ThinSeed	0.0000	0.1500			Yes
Low Sagebrush	U-B Depleted	U-ASI	ThinSeed	0.0000	0.7000			Yes
Low Sagebrush	U-B Depleted	U-ASHAS	ThinSeed	0.0000	0.1500			Yes
Low Sagebrush	U-B Depleted	U-B Depleted	Severe-Drought	0.0070	0.9000			Yes
Low Sagebrush	U-B Depleted	U-B Exotic Forbs	Exotic-Invasion	0.0005				No
Low Sagebrush	U-B Depleted	U-B SA	AS-Invasion	0.0050				No
Low Sagebrush	U-B Early Shrub	U-A Early Shrub	ReplacementFire	0.0067				Yes
Low Sagebrush	U-B Early Shrub	U-B Exotic Forbs	Exotic-Invasion	0.0005				No
Low Sagebrush	U-B Exotic Forbs	U-A Annual Spp	ReplacementFire	0.0067	0.2500			Yes
Low Sagebrush	U-B Exotic Forbs	U-A Exotic Forbs	Exotic-Control	0.0100	0.2000			Yes
Low Sagebrush	U-B Exotic Forbs	U-B Exotic Forbs	ReplacementFire	0.0067	0.7500			Yes
Low Sagebrush	U-B Exotic Forbs	U-ASI	Exotic-Control	0.0100	0.8000			Yes
Low Sagebrush	U-B Exotic Forbs	U-B Exotic Forbs	Early-Spring-Cattle-Grazing-byYr	0.0438				No
Low Sagebrush	U-B Exotic Forbs	U-B Exotic Forbs	Fall-Cattle-Grazing-byYr	0.0056				No
Low Sagebrush	U-B Exotic Forbs	U-B Exotic Forbs	FeralHorse-Grazing	0.0080				2 No
Low Sagebrush	U-B Exotic Forbs	U-B Exotic Forbs	Late-Spring-Cattle-Grazing-byYr	0.0438				1 No
Low Sagebrush	U-B Exotic Forbs	U-B Exotic Forbs	Summer-Cattle-Grazing-byYr	0.0056				No
Low Sagebrush	U-B Exotic Forbs	U-B Exotic Forbs	Wild-Horse-Grazing	0.0080				2 No
Low Sagebrush	U-B SA	U-A Annual Spp	Dixie-HarrowPlateauSeed	0.0000	0.1000			Yes
Low Sagebrush	U-B SA	U-A Annual Spp	Early-Spring-Cattle-Grazing-byYr	0.0438	0.0005			Yes
Low Sagebrush	U-B SA	U-A Annual Spp	Fall-Cattle-Grazing-byYr	0.0056	0.0005			Yes
Low Sagebrush	U-B SA	U-A Annual Spp	FeralHorse-Grazing	0.0080	0.0010			Yes
Low Sagebrush	U-B SA	U-A Annual Spp	ReplacementFire	0.0100				Yes
Low Sagebrush	U-B SA	U-A Annual Spp	Severe-Drought	0.0070	0.1000			1
Low Sagebrush	U-B SA	U-A Annual Spp	Wild-Horse-Grazing	0.0080	0.9000			Yes
Low Sagebrush	U-B SA	U-ASI	Dixie-HarrowPlateauSeed	0.0000	0.8000			Yes
Low Sagebrush	U-B SA	U-ASHAS	Dixie-HarrowPlateauSeed	0.0000	0.1000			Yes
Low Sagebrush	U-B SA	U-B Exotic Forbs	Exotic-Invasion	0.0005				No
Low Sagebrush	U-B SA	U-B SA	Early-Spring-Cattle-Grazing-byYr	0.0438	0.9995			No
Low Sagebrush	U-B SA	U-B SA	Fall-Cattle-Grazing-byYr	0.0056	0.0010			No
Low Sagebrush	U-B SA	U-B SA	FeralHorse-Grazing	0.0080	0.9990			No
Low Sagebrush	U-B SA	U-B SA	Severe-Drought	0.0070	0.9000			Yes
Low Sagebrush	U-B SA	U-B SA	Wild-Horse-Grazing	0.0080	0.9990			No
Low Sagebrush	U-B SAP	U-A Annual Spp	Early-Spring-Cattle-Grazing-byYr	0.0438	0.0005			Yes
Low Sagebrush	U-B SAP	U-A Annual Spp	Fall-Cattle-Grazing-byYr	0.0056	0.0005			Yes
Low Sagebrush	U-B SAP	U-A Annual Spp	FeralHorse-Grazing	0.0080	0.0005			Yes
Low Sagebrush	U-B SAP	U-A Annual Spp	Late-Spring-Cattle-Grazing-byYr	0.0438	0.0005			Yes
Low Sagebrush	U-B SAP	U-A Annual Spp	Summer-Cattle-Grazing-byYr	0.0056	0.0005			Yes
Low Sagebrush	U-B SAP	U-A Annual Spp	Wild-Horse-Grazing	0.0080	0.0006			Yes
Low Sagebrush	U-B SAP	U-A SAP	ReplacementFire	0.0100				1
Low Sagebrush	U-B SAP	U-A SAP	Severe-Drought	0.0070	0.1000			Yes
Low Sagebrush	U-B SAP	U-B Exotic Forbs	Exotic-Invasion	0.0005				No
Low Sagebrush	U-B SA	U-B SA	FeralHorse-Grazing	0.0080	0.0005			2 No
Low Sagebrush	U-B SA	U-B SA	Late-Spring-Cattle-Grazing-byYr	0.0438	0.0005			1 No

Low Sagebrush	U-B-SAP	U-B-SA	Wild-Horse-Grazing	0.0080	0.0050	2	No		
Low Sagebrush	U-B-SAP	U-B-SAP	Early-Spring-Cattle-Grazing-byYr	0.0438	0.9995		No		
Low Sagebrush	U-B-SAP	U-B-SAP	Fall-Cattle-Grazing-byYr	0.0056	0.9995		No		
Low Sagebrush	U-B-SAP	U-B-SAP	FeralHorse-Grazing	0.0080	0.9990		2	No	
Low Sagebrush	U-B-SAP	U-B-SAP	Late-Spring-Cattle-Grazing-byYr	0.0438	0.9990		1	No	
Low Sagebrush	U-B-SAP	U-B-SAP	Severe-Drought	0.0070	0.9000			Yes	
Low Sagebrush	U-B-SAP	U-B-SAP	Summer-Cattle-Grazing-byYr	0.0056	0.9995			No	
Low Sagebrush	U-B-Seeded Native	B-Open	Wild-Horse-Grazing	0.0080	0.9990		2	No	
Low Sagebrush	U-B-Seeded Native	U-A-Bare Ground	NaturalRecovery	0.0200		5		No	
Low Sagebrush	U-B-Seeded Native	U-A-Bare Ground	Early-Spring-Cattle-Grazing-byYr	0.0438	0.0005			Yes	
Low Sagebrush	U-B-Seeded Native	U-A-Bare Ground	Fall-Cattle-Grazing-byYr	0.0056	0.0005			Yes	
Low Sagebrush	U-B-Seeded Native	U-A-Bare Ground	FeralHorse-Grazing	0.0080	0.0005			Yes	
Low Sagebrush	U-B-Seeded Native	U-A-Bare Ground	Late-Spring-Cattle-Grazing-byYr	0.0438	0.0005			Yes	
Low Sagebrush	U-B-Seeded Native	U-A-Bare Ground	Summer-Cattle-Grazing-byYr	0.0056	0.0005			Yes	
Low Sagebrush	U-B-Seeded Native	U-A-Bare Ground	Wild-Horse-Grazing	0.0080	0.0005			Yes	
Low Sagebrush	U-B-Seeded Native	U-A-Early Shrub	FeralHorse-Grazing	0.0080	0.0005			Yes	
Low Sagebrush	U-B-Seeded Native	U-A-Early Shrub	Wild-Horse-Grazing	0.0080	0.0005			Yes	
Low Sagebrush	U-B-Seeded Native	U-B-Early Shrub	Late-Spring-Cattle-Grazing-byYr	0.0438	0.0005		1	No	
Low Sagebrush	U-B-Seeded Native	U-B-Early Shrub	Severe-Drought	0.0070	0.1000			Yes	
Low Sagebrush	U-B-Seeded Native	U-B-Exotic Forbs	Exotic-Invasion	0.0005				No	
Low Sagebrush	U-B-Seeded Native	U-B-SAP	AS-Invasion	0.0025				No	
Low Sagebrush	U-B-Seeded Native	U-B-Seeded Native	Early-Spring-Cattle-Grazing-byYr	0.0438	0.9995			No	
Low Sagebrush	U-B-Seeded Native	U-B-Seeded Native	Fall-Cattle-Grazing-byYr	0.0056	0.9995			No	
Low Sagebrush	U-B-Seeded Native	U-B-Seeded Native	FeralHorse-Grazing	0.0080	0.9990		2	No	
Low Sagebrush	U-B-Seeded Native	U-B-Seeded Native	Late-Spring-Cattle-Grazing-byYr	0.0438	0.9990		1	No	
Low Sagebrush	U-B-Seeded Native	U-B-Seeded Native	ReplacementFire	0.0067				Yes	
Low Sagebrush	U-B-Seeded Native	U-B-Seeded Native	Severe-Drought	0.0070	0.9000			Yes	
Low Sagebrush	U-B-Seeded Native	U-B-Seeded Native	Summer-Cattle-Grazing-byYr	0.0056	0.9995			No	
Low Sagebrush	U-B-Seeded Native	U-B-Seeded Native	Wild-Horse-Grazing	0.0080	0.9990		2	No	
Low Sagebrush	U-B-Seeded Native	B-Open	NaturalRecovery	0.0010		10		No	
Low Sagebrush	U-B-SI	U-A-SI	ReplacementFire	0.0020				Yes	
Low Sagebrush	U-B-SI	U-A-SI	Severe-Drought	0.0070	0.1000			Yes	
Low Sagebrush	U-B-SI	U-B-SI	Early-Spring-Cattle-Grazing-byYr	0.0438				No	
Low Sagebrush	U-B-SI	U-B-SI	Fall-Cattle-Grazing-byYr	0.0056				No	
Low Sagebrush	U-B-SI	U-B-SI	FeralHorse-Grazing	0.0080			2	No	
Low Sagebrush	U-B-SI	U-B-SI	Late-Spring-Cattle-Grazing-byYr	0.0438			1	No	
Low Sagebrush	U-B-SI	U-B-SI	Severe-Drought	0.0070	0.9000			Yes	
Low Sagebrush	U-B-SI	U-B-SI	Summer-Cattle-Grazing-byYr	0.0056				No	
Low Sagebrush	U-B-SI	U-B-SI	Wild-Horse-Grazing	0.0080			2	No	
Low Sagebrush	U-B-SI	U-B-SHAS	AS-Invasion	0.0010				No	
Low Sagebrush	U-B-SHAS	U-A-SHAS	ReplacementFire	0.0050				Yes	
Low Sagebrush	U-B-SHAS	U-A-SHAS	Severe-Drought	0.0070	0.1000			Yes	
Low Sagebrush	U-B-SHAS	U-B-SI	Competition	0.3330			3	No	
Low Sagebrush	U-B-SHAS	U-B-SHAS	Early-Spring-Cattle-Grazing-byYr	0.0438				No	
Low Sagebrush	U-B-SHAS	U-B-SHAS	Fall-Cattle-Grazing-byYr	0.0056				No	
Low Sagebrush	U-B-SHAS	U-B-SHAS	FeralHorse-Grazing	0.0080			2	No	
Low Sagebrush	U-B-SHAS	U-B-SHAS	Late-Spring-Cattle-Grazing-byYr	0.0438			1	No	
Low Sagebrush	U-B-SHAS	U-B-SHAS	Severe-Drought	0.0070	0.9000			Yes	
Low Sagebrush	U-B-SHAS	U-B-SHAS	Summer-Cattle-Grazing-byYr	0.0056				No	
Low Sagebrush	U-B-SHAS	U-B-SHAS	Web-Year	0.0070				No	
Low Sagebrush	U-B-SHAS	U-B-SHAS	Wild-Horse-Grazing	0.0080			2	No	
Low Sagebrush	U-B-Unpalat. Forb	U-A-Unpalat. Forb	ReplacementFire	0.0040				Yes	
Low Sagebrush	U-C-Depleted	U-A-Annual Spp	ReplacementFire	0.0067	0.5000			Yes	
Low Sagebrush	U-C-Depleted	U-A-Early Shrub	ReplacementFire	0.0067	0.5000			Yes	
Low Sagebrush	U-C-Depleted	U-A-Early Shrub	Severe-Drought	0.0070	0.1000			No	
Low Sagebrush	U-C-Depleted	U-A-Early Shrub	ThinSeed	0.0000	0.1500			Yes	
Low Sagebrush	U-C-Depleted	U-A-SI	ThinSeed	0.0000	0.7000			Yes	
Low Sagebrush	U-C-Depleted	U-A-SHAS	ThinSeed	0.0000	0.1500			Yes	
Low Sagebrush	U-C-Depleted	U-C-Depleted	Severe-Drought	0.0070	0.9000			Yes	
Low Sagebrush	U-C-Depleted	U-C-Depleted	Exotic-Invasion	0.0005				No	
Low Sagebrush	U-C-Depleted	U-C-SA	AS-Invasion	0.0050				No	
Low Sagebrush	U-C-Early Shrub	U-A-Early Shrub	ReplacementFire	0.0067				Yes	
Low Sagebrush	U-C-Early Shrub	U-C-Exotic Forbs	Exotic-Invasion	0.0005				No	
Low Sagebrush	U-C-Exotic Forbs	U-A-Annual Spp	ReplacementFire	0.0067	0.2500			Yes	
Low Sagebrush	U-C-Exotic Forbs	U-A-Exotic Forbs	Exotic-Control	0.0100	0.2000			Yes	
Low Sagebrush	U-C-Exotic Forbs	U-C-Exotic Forbs	ReplacementFire	0.0067	0.7500			Yes	
Low Sagebrush	U-C-Exotic Forbs	U-A-SI	Exotic-Control	0.0100	0.8000			Yes	
Low Sagebrush	U-C-Exotic Forbs	U-C-Exotic Forbs	Early-Spring-Cattle-Grazing-byYr	0.0438				No	
Low Sagebrush	U-C-Exotic Forbs	U-C-Exotic Forbs	Fall-Cattle-Grazing-byYr	0.0056				No	
Low Sagebrush	U-C-Exotic Forbs	U-C-Exotic Forbs	FeralHorse-Grazing	0.0080			2	No	
Low Sagebrush	U-C-Exotic Forbs	U-C-Exotic Forbs	Late-Spring-Cattle-Grazing-byYr	0.0438			1	No	
Low Sagebrush	U-C-Exotic Forbs	U-C-Exotic Forbs	Summer-Cattle-Grazing-byYr	0.0056				No	
Low Sagebrush	U-C-Exotic Forbs	U-C-Exotic Forbs	Wild-Horse-Grazing	0.0080			2	No	
Low Sagebrush	U-C-SA	U-A-Annual Spp	Dixie-HarrowPlateauSeed	0.0000	0.1000			Yes	
Low Sagebrush	U-C-SA	U-A-Annual Spp	Early-Spring-Cattle-Grazing-byYr	0.0438	0.0005			Yes	
Low Sagebrush	U-C-SA	U-A-Annual Spp	Fall-Cattle-Grazing-byYr	0.0056	0.0005			Yes	
Low Sagebrush	U-C-SA	U-A-Annual Spp	FeralHorse-Grazing	0.0080	0.0010			Yes	
Low Sagebrush	U-C-SA	U-A-Annual Spp	ReplacementFire	0.0100				Yes	
Low Sagebrush	U-C-SA	U-A-Annual Spp	Severe-Drought	0.0070	0.1000			No	
Low Sagebrush	U-C-SA	U-A-Annual Spp	Wild-Horse-Grazing	0.0080	0.0010			Yes	
Low Sagebrush	U-C-SA	U-A-SI	Dixie-HarrowPlateauSeed	0.0000	0.8000			Yes	
Low Sagebrush	U-C-SA	U-A-SHAS	Dixie-HarrowPlateauSeed	0.0000	0.1000			Yes	
Low Sagebrush	U-C-SA	U-C-Exotic Forbs	Exotic-Invasion	0.0005				No	
Low Sagebrush	U-C-SA	U-C-SA	Early-Spring-Cattle-Grazing-byYr	0.0438	0.9995			No	
Low Sagebrush	U-C-SA	U-C-SA	Fall-Cattle-Grazing-byYr	0.0056	0.9995			No	
Low Sagebrush	U-C-SA	U-C-SA	FeralHorse-Grazing	0.0080	0.9990			No	
Low Sagebrush	U-C-SA	U-C-SA	Severe-Drought	0.0070	0.9000			Yes	
Low Sagebrush	U-C-SA	U-C-SA	Wild-Horse-Grazing	0.0080	0.9990			No	
Low Sagebrush	U-C-SA	U-D-TEA	Tree-Invasion	0.0010		120		Yes	
Low Sagebrush	U-C-SAP	U-A-Annual Spp	Early-Spring-Cattle-Grazing-byYr	0.0438	0.0005			No	
Low Sagebrush	U-C-SAP	U-A-Annual Spp	Fall-Cattle-Grazing-byYr	0.0056	0.0005			No	
Low Sagebrush	U-C-SAP	U-A-Annual Spp	FeralHorse-Grazing	0.0080	0.0005			Yes	
Low Sagebrush	U-C-SAP	U-A-Annual Spp	Late-Spring-Cattle-Grazing-byYr	0.0438	0.0005			Yes	
Low Sagebrush	U-C-SAP	U-A-Annual Spp	Summer-Cattle-Grazing-byYr	0.0056	0.0005			No	
Low Sagebrush	U-C-SAP	U-A-Annual Spp	Wild-Horse-Grazing	0.0080	0.0005			Yes	
Low Sagebrush	U-C-SAP	U-A-SAP	ReplacementFire	0.0100				Yes	
Low Sagebrush	U-C-SAP	U-B-SA	Severe-Drought	0.0070	0.1000			Yes	
Low Sagebrush	U-C-SAP	U-C-Exotic Forbs	Exotic-Invasion	0.0005				No	
Low Sagebrush	U-C-SAP	U-C-SA	FeralHorse-Grazing	0.0080	0.0005			2	No
Low Sagebrush	U-C-SAP	U-C-SA	Late-Spring-Cattle-Grazing-byYr	0.0438	0.0005			1	No
Low Sagebrush	U-C-SAP	U-C-SA	Wild-Horse-Grazing	0.0080	0.0005			2	No
Low Sagebrush	U-C-SAP	U-C-SAP	Early-Spring-Cattle-Grazing-byYr	0.0438	0.9995			No	
Low Sagebrush	U-C-SAP	U-C-SAP	Fall-Cattle-Grazing-byYr	0.0056	0.9995			No	
Low Sagebrush	U-C-SAP	U-C-SAP	FeralHorse-Grazing	0.0080	0.9990			2	No
Low Sagebrush	U-C-SAP	U-C-SAP	Late-Spring-Cattle-Grazing-byYr	0.0438	0.9990			1	No
Low Sagebrush	U-C-SAP	U-C-SAP	Severe-Drought	0.0070	0.9000			Yes	
Low Sagebrush	U-C-SAP	U-C-SAP	Summer-Cattle-Grazing-byYr	0.0056	0.9995			No	
Low Sagebrush	U-C-SAP	U-C-SAP	Wild-Horse-Grazing	0.0080	0.9990			2	No
Low Sagebrush	U-C-SAP	U-D-TEA	Tree-Invasion	0.0010		120		Yes	
Low Sagebrush	U-C-SI	U-C-Closed	NaturalRecovery	0.0100				No	
Low Sagebrush	U-C-SI	U-A-SI	ReplacementFire	0.0020				Yes	
Low Sagebrush	U-C-SI	U-B-SI	Severe-Drought	0.0070	0.1000			Yes	
Low Sagebrush	U-C-SI	U-C-SI	Early-Spring-Cattle-Grazing-byYr	0.0438				No	
Low Sagebrush	U-C-SI	U-C-SI	Fall-Cattle-Grazing-byYr	0.0056				No	
Low Sagebrush	U-C-SI	U-C-SI	FeralHorse-Grazing	0.0080			2	No	
Low Sagebrush	U-C-SI	U-C-SI	Late-Spring-Cattle-Grazing-byYr	0.0438			1	No	
Low Sagebrush	U-C-SI	U-C-SI	Severe-Drought	0.0070	0.9000			Yes	
Low Sagebrush	U-C-SI	U-C-SI	Summer-Cattle-Grazing-byYr	0.0056	0.9000			No	

Low Sagebrush	U-CSI	U-CSI	Wild-Horse-Grazing	0.0080		2	No	
Low Sagebrush	U-CSI	U-CSHAS	AS-Invasion	0.0010			No	
Low Sagebrush	U-CSI	U-CSI	Tree-Invasion	0.0010	120		Yes	
Low Sagebrush	U-CSHAS	U-CSHAS	ReplacementFire	0.0050			Yes	
Low Sagebrush	U-CSHAS	U-CSHAS	Severe-Drought	0.0070	0.1000		Yes	
Low Sagebrush	U-CSHAS	U-CSI	Competition	0.3330		3	No	
Low Sagebrush	U-CSHAS	U-CSHAS	Early-Spring-Cattle-Grazing-byYr	0.0438			No	
Low Sagebrush	U-CSHAS	U-CSHAS	Fall-Cattle-Grazing-byYr	0.0056			No	
Low Sagebrush	U-CSHAS	U-CSHAS	FeralHorse-Grazing	0.0080			2	No
Low Sagebrush	U-CSHAS	U-CSHAS	Late-Spring-Cattle-Grazing-byYr	0.0438			1	No
Low Sagebrush	U-CSHAS	U-CSHAS	Severe-Drought	0.0070	0.9000		Yes	
Low Sagebrush	U-CSHAS	U-CSHAS	Summer-Cattle-Grazing-byYr	0.0056			No	
Low Sagebrush	U-CSHAS	U-CSHAS	Web-Year	0.0670			No	
Low Sagebrush	U-CSHAS	U-CSHAS	Wild-Horse-Grazing	0.0080			2	No
Low Sagebrush	U-CSHAS	U-CSHAS	Tree-Invasion	0.0010	120		Yes	
Low Sagebrush	U-Unpalat. Forb	U-Unpalat. Forb	ReplacementFire	0.0040			Yes	
Low Sagebrush	U-Unpalat. Forb	U-Unpalat. Forb	Tree-Invasion	0.0010	120		Yes	
Low Sagebrush	U-DSI	U-Annual Spp	AerialSeed-Masticate+Plateau	0.0100	0.1500		Yes	
Low Sagebrush	U-DSI	U-ASI	AerialSeed-Masticate+Plateau	0.0100	0.7000		Yes	
Low Sagebrush	U-DSI	U-ASI	ReplacementFire	0.0020			Yes	
Low Sagebrush	U-DSI	U-CSHAS	AerialSeed-Masticate+Plateau	0.0100	0.1500		Yes	
Low Sagebrush	U-DSI	U-CSI	Severe-Drought	0.0070	0.1000		Yes	
Low Sagebrush	U-DSI	U-DSI	Early-Spring-Cattle-Grazing-byYr	0.0438			No	
Low Sagebrush	U-DSI	U-DSI	Fall-Cattle-Grazing-byYr	0.0056			No	
Low Sagebrush	U-DSI	U-DSI	FeralHorse-Grazing	0.0080			2	No
Low Sagebrush	U-DSI	U-DSI	Late-Spring-Cattle-Grazing-byYr	0.0438			1	No
Low Sagebrush	U-DSI	U-DSI	NaturalRecovery	0.0100		10	No	
Low Sagebrush	U-DSI	U-DSI	Severe-Drought	0.0070	0.9000	249	5	No
Low Sagebrush	U-DSI	U-DSI	Summer-Cattle-Grazing-byYr	0.0056			No	
Low Sagebrush	U-DSI	U-DSI	Wild-Horse-Grazing	0.0080			2	No
Low Sagebrush	U-DSI	U-DSHAS	AS-Invasion	0.0010			No	
Low Sagebrush	U-DSI	U-TEA	Tree-Enrichment	0.0200		250	No	
Low Sagebrush	U-DSHAS	U-Annual Spp	AerialSeed-Masticate+Plateau	0.0100	0.2000		Yes	
Low Sagebrush	U-DSHAS	U-ASI	AerialSeed-Masticate+Plateau	0.0100	0.6000		Yes	
Low Sagebrush	U-DSHAS	U-CSHAS	AerialSeed-Masticate+Plateau	0.0100	0.2000		Yes	
Low Sagebrush	U-DSHAS	U-CSHAS	ReplacementFire	0.0050			Yes	
Low Sagebrush	U-DSHAS	U-CSI	Competition	0.3330		3	No	
Low Sagebrush	U-DSHAS	U-CSHAS	Severe-Drought	0.0070	0.1000		Yes	
Low Sagebrush	U-DSHAS	U-DSHAS	Early-Spring-Cattle-Grazing-byYr	0.0438			No	
Low Sagebrush	U-DSHAS	U-DSHAS	Fall-Cattle-Grazing-byYr	0.0056			No	
Low Sagebrush	U-DSHAS	U-DSHAS	FeralHorse-Grazing	0.0080			2	No
Low Sagebrush	U-DSHAS	U-DSHAS	Late-Spring-Cattle-Grazing-byYr	0.0438			1	No
Low Sagebrush	U-DSHAS	U-DSHAS	Severe-Drought	0.0070	0.9000		Yes	
Low Sagebrush	U-DSHAS	U-DSHAS	Summer-Cattle-Grazing-byYr	0.0056			No	
Low Sagebrush	U-DSHAS	U-DSHAS	Web-Year	0.0670			No	
Low Sagebrush	U-DSHAS	U-DSHAS	Wild-Horse-Grazing	0.0080			2	No
Low Sagebrush	U-DSHAS	U-TEA	Tree-Enrichment	0.0200		250	No	
Low Sagebrush	U-TEA	U-Annual Spp	AerialSeed-Masticate+Plateau	0.0100	0.2000		Yes	
Low Sagebrush	U-TEA	U-Annual Spp	Chainsaw Thinning	0.0100	0.0500		Yes	
Low Sagebrush	U-TEA	U-Annual Spp	ReplacementFire	0.0040			Yes	
Low Sagebrush	U-TEA	U-Annual Spp	Severe-Drought	0.0070	0.1000		Yes	
Low Sagebrush	U-TEA	U-Early Shrub	Chainsaw Thinning	0.0100	0.0500		Yes	
Low Sagebrush	U-TEA	U-ASI	AerialSeed-Masticate+Plateau	0.0100	0.6000		Yes	
Low Sagebrush	U-TEA	U-CSHAS	AerialSeed-Masticate+Plateau	0.0100	0.2000		Yes	
Low Sagebrush	U-TEA	U-B Depleted	Chainsaw Thinning	0.0100	0.3000		Yes	
Low Sagebrush	U-TEA	U-BSA	Chainsaw Thinning	0.0100	0.3000		Yes	
Low Sagebrush	U-TEA	U-B SAP	Chainsaw Thinning	0.0100	0.3000		Yes	
Low Sagebrush	U-TEA	U-TEA	Severe-Drought	0.0070	0.9000		Yes	
Low Sagebrush	U-Unpalat. Forb	U-Unpalat. Forb	ReplacementFire	0.0040			Yes	
Low Sagebrush Steppe	A.All	A.All	Early-Spring-Cattle-Grazing-byYr	0.0438	0.9995	3	No	
Low Sagebrush Steppe	A.All	A.All	Fall-Cattle-Grazing-byYr	0.0051	0.9995	3	No	
Low Sagebrush Steppe	A.All	A.All	FeralHorse-Grazing	0.0100	0.9990		2	No
Low Sagebrush Steppe	A.All	A.All	Late-Spring-Cattle-Grazing-byYr	0.0400	0.9990	3	1	No
Low Sagebrush Steppe	A.All	A.All	ReplacementFire	0.0040			Yes	
Low Sagebrush Steppe	A.All	A.All	Severe-Drought	0.0070			-1	No
Low Sagebrush Steppe	A.All	A.All	Summer-Cattle-Grazing-byYr	0.0051	0.9995	3	No	
Low Sagebrush Steppe	A.All	A.All	Wild-Horse-Grazing	0.0100	0.9990		2	No
Low Sagebrush Steppe	A.All	U-A Bare Ground	Early-Spring-Cattle-Grazing-byYr	0.0400	0.0005	3	Yes	
Low Sagebrush Steppe	A.All	U-A Bare Ground	Fall-Cattle-Grazing-byYr	0.0051	0.0005	3	Yes	
Low Sagebrush Steppe	A.All	U-A Bare Ground	FeralHorse-Grazing	0.0100	0.0005		Yes	
Low Sagebrush Steppe	A.All	U-A Bare Ground	Late-Spring-Cattle-Grazing-byYr	0.0400	0.0005	3	Yes	
Low Sagebrush Steppe	A.All	U-A Bare Ground	Summer-Cattle-Grazing-byYr	0.0051	0.0005	3	Yes	
Low Sagebrush Steppe	A.All	U-A Bare Ground	Wild-Horse-Grazing	0.0100	0.0005		Yes	
Low Sagebrush Steppe	A.All	U-A Early Shrub	FeralHorse-Grazing	0.0100	0.0005		Yes	
Low Sagebrush Steppe	A.All	U-A Early Shrub	Late-Spring-Cattle-Grazing-byYr	0.0400	0.0005	3	1	No
Low Sagebrush Steppe	A.All	U-A Early Shrub	Wild-Horse-Grazing	0.0100	0.0005		Yes	
Low Sagebrush Steppe	B.Open	A.All	ReplacementFire	0.0110			Yes	
Low Sagebrush Steppe	B.Open	A.All	Severe-Drought	0.0070	0.1000		Yes	
Low Sagebrush Steppe	B.Open	B.Open	Early-Spring-Cattle-Grazing-byYr	0.0400	0.9995		No	
Low Sagebrush Steppe	B.Open	B.Open	Fall-Cattle-Grazing-byYr	0.0051	0.9995		No	
Low Sagebrush Steppe	B.Open	B.Open	FeralHorse-Grazing	0.0100	0.9990		2	No
Low Sagebrush Steppe	B.Open	B.Open	Late-Spring-Cattle-Grazing-byYr	0.0400	0.9990		1	No
Low Sagebrush Steppe	B.Open	B.Open	Severe-Drought	0.0070	0.9000		Yes	
Low Sagebrush Steppe	B.Open	B.Open	Summer-Cattle-Grazing-byYr	0.0051	0.9995		No	
Low Sagebrush Steppe	B.Open	B.Open	Wild-Horse-Grazing	0.0100	0.9990		2	No
Low Sagebrush Steppe	B.Open	U-A Bare Ground	Early-Spring-Cattle-Grazing-byYr	0.0400	0.0005		No	
Low Sagebrush Steppe	B.Open	U-A Bare Ground	Fall-Cattle-Grazing-byYr	0.0051	0.0005		Yes	
Low Sagebrush Steppe	B.Open	U-A Bare Ground	FeralHorse-Grazing	0.0100	0.0005		Yes	
Low Sagebrush Steppe	B.Open	U-A Bare Ground	Late-Spring-Cattle-Grazing-byYr	0.0400	0.0005		Yes	
Low Sagebrush Steppe	B.Open	U-A Bare Ground	Summer-Cattle-Grazing-byYr	0.0051	0.0005		Yes	
Low Sagebrush Steppe	B.Open	U-A Bare Ground	Wild-Horse-Grazing	0.0100	0.0005		Yes	
Low Sagebrush Steppe	B.Open	U-A Early Shrub	FeralHorse-Grazing	0.0100	0.0005		Yes	
Low Sagebrush Steppe	B.Open	U-A Early Shrub	Late-Spring-Cattle-Grazing-byYr	0.0400	0.0005		1	No
Low Sagebrush Steppe	B.Open	U-A Early Shrub	Wild-Horse-Grazing	0.0100	0.0005		Yes	
Low Sagebrush Steppe	C.Closed	A.All	ReplacementFire	0.0110			Yes	
Low Sagebrush Steppe	C.Closed	B.Open	Severe-Drought	0.0070	0.1000		Yes	
Low Sagebrush Steppe	C.Closed	C.Closed	Early-Spring-Cattle-Grazing-byYr	0.0400	0.9995		No	
Low Sagebrush Steppe	C.Closed	C.Closed	Fall-Cattle-Grazing-byYr	0.0051	0.9995		No	
Low Sagebrush Steppe	C.Closed	C.Closed	FeralHorse-Grazing	0.0100	0.9990		2	No
Low Sagebrush Steppe	C.Closed	C.Closed	Late-Spring-Cattle-Grazing-byYr	0.0051	0.9990		1	No
Low Sagebrush Steppe	C.Closed	C.Closed	Severe-Drought	0.0070	0.9000		Yes	
Low Sagebrush Steppe	C.Closed	C.Closed	Small-Tree-Looping	0.0100		200	Yes	
Low Sagebrush Steppe	C.Closed	C.Closed	Summer-Cattle-Grazing-byYr	0.0051	0.9995		No	
Low Sagebrush Steppe	C.Closed	C.Closed	Wild-Horse-Grazing	0.0100	0.9990		2	No
Low Sagebrush Steppe	C.Closed	U-A Bare Ground	Early-Spring-Cattle-Grazing-byYr	0.0400	0.0005		Yes	
Low Sagebrush Steppe	C.Closed	U-A Bare Ground	Fall-Cattle-Grazing-byYr	0.0051	0.0005		Yes	
Low Sagebrush Steppe	C.Closed	U-A Bare Ground	FeralHorse-Grazing	0.0100	0.0005		Yes	
Low Sagebrush Steppe	C.Closed	U-A Bare Ground	Late-Spring-Cattle-Grazing-byYr	0.0051	0.0005		Yes	
Low Sagebrush Steppe	C.Closed	U-A Bare Ground	Summer-Cattle-Grazing-byYr	0.0051	0.0005		Yes	
Low Sagebrush Steppe	C.Closed	U-A Bare Ground	Wild-Horse-Grazing	0.0100	0.0005		Yes	
Low Sagebrush Steppe	C.Closed	U-C Depleted	FeralHorse-Grazing	0.0100	0.0005		No	
Low Sagebrush Steppe	C.Closed	U-C Depleted	Late-Spring-Cattle-Grazing-byYr	0.0051	0.0005		1	No
Low Sagebrush Steppe	C.Closed	U-C Depleted	Wild-Horse-Grazing	0.0100	0.0005		No	
Low Sagebrush Steppe	C.Closed	U-A Bare Ground	Alternate Succession	0.0400		3	Yes	
Low Sagebrush Steppe	U-A Early Shrub	U-A Early Shrub	ReplacementFire	0.0110			Yes	
Low Sagebrush Steppe	U-A Unpalat. Forb	U-A Unpalat. Forb	ReplacementFire	0.0100			Yes	
Low Sagebrush Steppe	U-B Depleted	U-A Early Shrub	ReplacementFire	0.0040			Yes	
Low Sagebrush Steppe	U-B Depleted	U-A Early Shrub	Severe-Drought	0.0070	0.1000		Yes	

Low Sagebrush Steppe	U-B Depleted	U-B Depleted	Severe Drought	0.0070	0.9000			Yes	
Low Sagebrush Steppe	U-B Early Shrub	U-A Early Shrub	Replacement Fire	0.0110				Yes	
Low Sagebrush Steppe	U-B Unpalat. Forb	U-A Unpalat. Forb	Replacement Fire	0.0100				Yes	
Low Sagebrush Steppe	U-C Depleted	U-A Early Shrub	Replacement Fire	0.0040				Yes	
Low Sagebrush Steppe	U-C Depleted	U-B Depleted	Severe Drought	0.0070	0.1000			Yes	
Low Sagebrush Steppe	U-C Depleted	U-C Depleted	Severe Drought	0.0070	0.9000			Yes	
Low Sagebrush Steppe	U-C Depleted	U-D TEA	Tree Invasion	0.0080		120		Yes	
Low Sagebrush Steppe	U-C Early Shrub	U-A Early Shrub	Replacement Fire	0.0110				Yes	
Low Sagebrush Steppe	U-C Unpalat. Forb	U-A Unpalat. Forb	Replacement Fire	0.0100				Yes	
Low Sagebrush Steppe	U-D TEA	A All	Medicote+Native-Seed	0.0000	0.2000			Yes	
Low Sagebrush Steppe	U-D TEA	B Open	Medicote+Native-Seed	0.0000	0.7000			Yes	
Low Sagebrush Steppe	U-D TEA	U-A Early Shrub	Medicote+Native-Seed	0.0000	0.1000			Yes	
Low Sagebrush Steppe	U-D TEA	U-A Early Shrub	Replacement Fire	0.0067				Yes	
Low Sagebrush Steppe	U-D TEA	U-A Early Shrub	Severe Drought	0.0070	0.1000			Yes	
Low Sagebrush Steppe	U-D TEA	U-D TEA	Severe Drought	0.0070	0.9000			Yes	
Mixed Salt Desert	A All	A All	Early Spring-Cattle-Grazing-byYr	0.0113	0.9995			No	
Mixed Salt Desert	A All	A All	Fall-Cattle-Grazing-byYr	0.0014	0.9995			No	
Mixed Salt Desert	A All	A All	FeralHorse-Grazing	0.0005	0.9990			2 No	
Mixed Salt Desert	A All	A All	Late-Spring-Cattle-Grazing-byYr	0.0113	0.9990			1 No	
Mixed Salt Desert	A All	A All	Summer-Cattle-Grazing-byYr	0.0014	0.9995			No	
Mixed Salt Desert	A All	A All	Very-Web-Year	0.0181				Yes	
Mixed Salt Desert	A All	A All	Wild-Horse-Grazing	0.0005	0.9990			2 No	
Mixed Salt Desert	A All	U-A Annual Spp	AS-Invasion	0.0025				No	
Mixed Salt Desert	A All	U-A Bare Ground	Early Spring-Cattle-Grazing-byYr	0.0113	0.0005			Yes	
Mixed Salt Desert	A All	U-A Bare Ground	Fall-Cattle-Grazing-byYr	0.0014	0.0005			Yes	
Mixed Salt Desert	A All	U-A Bare Ground	FeralHorse-Grazing	0.0005	0.0010			Yes	
Mixed Salt Desert	A All	U-A Bare Ground	Late-Spring-Cattle-Grazing-byYr	0.0113	0.0010			Yes	
Mixed Salt Desert	A All	U-A Bare Ground	Summer-Cattle-Grazing-byYr	0.0014	0.0005			Yes	
Mixed Salt Desert	A All	U-A Bare Ground	Wild-Horse-Grazing	0.0050	0.0010			Yes	
Mixed Salt Desert	B Open	A All	Very-Web-Year	0.0181				Yes	
Mixed Salt Desert	B Open	B Open	Early Spring-Cattle-Grazing-byYr	0.0050	0.9995			No	
Mixed Salt Desert	B Open	B Open	Fall-Cattle-Grazing-byYr	0.0050	0.9995			No	
Mixed Salt Desert	B Open	B Open	FeralHorse-Grazing	0.0050	0.9990			2 No	
Mixed Salt Desert	B Open	B Open	Late-Spring-Cattle-Grazing-byYr	0.0050	0.9995			1 No	
Mixed Salt Desert	B Open	B Open	Severe Drought	0.0070	0.1000			Yes	
Mixed Salt Desert	B Open	B Open	Summer-Cattle-Grazing-byYr	0.0050	0.9995			No	
Mixed Salt Desert	B Open	B Open	Wild-Horse-Grazing	0.0050	0.9990			2 No	
Mixed Salt Desert	B Open	C Open	Severe Drought	0.0070	0.9000			Yes	
Mixed Salt Desert	B Open	U-A Bare Ground	Early Spring-Cattle-Grazing-byYr	0.0113	0.0005			Yes	
Mixed Salt Desert	B Open	U-A Bare Ground	Fall-Cattle-Grazing-byYr	0.0014	0.0005			Yes	
Mixed Salt Desert	B Open	U-A Bare Ground	FeralHorse-Grazing	0.0050	0.0005			Yes	
Mixed Salt Desert	B Open	U-A Bare Ground	Late-Spring-Cattle-Grazing-byYr	0.0050	0.0005			Yes	
Mixed Salt Desert	B Open	U-A Bare Ground	Summer-Cattle-Grazing-byYr	0.0050	0.0005			Yes	
Mixed Salt Desert	B Open	U-B Depleted	FeralHorse-Grazing	0.0050	0.0005			Yes	
Mixed Salt Desert	B Open	U-B Depleted	Late-Spring-Cattle-Grazing-byYr	0.0113	0.0005			1 No	
Mixed Salt Desert	B Open	U-B Depleted	Wild-Horse-Grazing	0.0050	0.0005			Yes	
Mixed Salt Desert	B Open	U-B SAP	AS-Invasion	0.0025				No	
Mixed Salt Desert	C Open	A All	Very-Web-Year	0.0181				Yes	
Mixed Salt Desert	C Open	C Open	Early Spring-Cattle-Grazing-byYr	0.0050	0.0010			No	
Mixed Salt Desert	C Open	C Open	Fall-Cattle-Grazing-byYr	0.0050	0.9995			Yes	
Mixed Salt Desert	C Open	C Open	FeralHorse-Grazing	0.0050	0.9990			2 No	
Mixed Salt Desert	C Open	C Open	Late-Spring-Cattle-Grazing-byYr	0.0050	0.9990			1 No	
Mixed Salt Desert	C Open	C Open	Severe Drought	0.0070				Yes	
Mixed Salt Desert	C Open	C Open	Summer-Cattle-Grazing-byYr	0.0050	0.9995			No	
Mixed Salt Desert	C Open	C Open	Wild-Horse-Grazing	0.0050	0.9990			2 No	
Mixed Salt Desert	C Open	U-A Bare Ground	Early Spring-Cattle-Grazing-byYr	0.0050	0.0005			Yes	
Mixed Salt Desert	C Open	U-A Bare Ground	Fall-Cattle-Grazing-byYr	0.0050	0.0005			Yes	
Mixed Salt Desert	C Open	U-A Bare Ground	FeralHorse-Grazing	0.0050	0.0005			Yes	
Mixed Salt Desert	C Open	U-A Bare Ground	Late-Spring-Cattle-Grazing-byYr	0.0050	0.0005			Yes	
Mixed Salt Desert	C Open	U-A Bare Ground	Summer-Cattle-Grazing-byYr	0.0050	0.0005			Yes	
Mixed Salt Desert	C Open	U-A Bare Ground	Wild-Horse-Grazing	0.0050	0.0005			No	
Mixed Salt Desert	C Open	U-B Depleted	FeralHorse-Grazing	0.0050	0.0005			Yes	
Mixed Salt Desert	C Open	U-B Depleted	Late-Spring-Cattle-Grazing-byYr	0.0050	0.0005			1 No	
Mixed Salt Desert	C Open	U-B Depleted	Wild-Horse-Grazing	0.0050	0.0005			No	
Mixed Salt Desert	C Open	U-B SAP	AS-Invasion	0.0025				No	
Mixed Salt Desert	U-A Annual Spp	U-A Annual Spp	BLM-Post-Fire-Rabb	0.0100	0.6500		3	Yes	
Mixed Salt Desert	U-A Annual Spp	U-A Annual Spp	Early Spring-Cattle-Grazing-byYr	0.0050				Yes	
Mixed Salt Desert	U-A Annual Spp	U-A Annual Spp	Fall-Cattle-Grazing-byYr	0.0050				Yes	
Mixed Salt Desert	U-A Annual Spp	U-A Annual Spp	FeralHorse-Grazing	0.0050				Yes	
Mixed Salt Desert	U-A Annual Spp	U-A Annual Spp	Herbicide-PlateauSeed	0.0050	0.2500			Yes	
Mixed Salt Desert	U-A Annual Spp	U-A Annual Spp	Replacement Fire	0.1000				Yes	
Mixed Salt Desert	U-A Annual Spp	U-A Annual Spp	Wild-Horse-Grazing	0.0050				Yes	
Mixed Salt Desert	U-A Annual Spp	U-A Exotic Forbs	Exotic Invasion	0.0005				Yes	
Mixed Salt Desert	U-A Annual Spp	U-A ISI	BLM-Post-Fire-Rabb	0.0100	0.1750		3	Yes	
Mixed Salt Desert	U-A Annual Spp	U-A ISI	Herbicide-PlateauSeed	0.0000	0.5000			Yes	
Mixed Salt Desert	U-A Annual Spp	U-A SHAS	BLM-Post-Fire-Rabb	0.0100	0.1750		3	Yes	
Mixed Salt Desert	U-A Annual Spp	U-A SHAS	Herbicide-PlateauSeed	0.0000	0.2500			Yes	
Mixed Salt Desert	U-A Bare Ground	U-A Annual Spp	AS-Invasion	0.0050				No	
Mixed Salt Desert	U-A Bare Ground	U-A Depleted	Alternate-Succession	0.0113				Yes	
Mixed Salt Desert	U-A Bare Ground	U-A Exotic Forbs	Exotic Invasion	0.0005				No	
Mixed Salt Desert	U-A Depleted	U-A Annual Spp	AS-Invasion	0.0010				No	
Mixed Salt Desert	U-A Depleted	U-A Depleted	Very-Web-Year	0.0181				Yes	
Mixed Salt Desert	U-A Depleted	U-A Exotic Forbs	Exotic Invasion	0.0005				Yes	
Mixed Salt Desert	U-A Exotic Forbs	U-A Exotic Forbs	Exotic Control	0.0100	0.5000			Yes	
Mixed Salt Desert	U-A Exotic Forbs	U-A ISI	Exotic Control	0.0100	0.5000			Yes	
Mixed Salt Desert	U-A SAP	U-A Annual Spp	Early Spring-Cattle-Grazing-byYr	0.0050	0.0005			Yes	
Mixed Salt Desert	U-A SAP	U-A Annual Spp	Fall-Cattle-Grazing-byYr	0.0050	0.0005			Yes	
Mixed Salt Desert	U-A SAP	U-A Annual Spp	FeralHorse-Grazing	0.0050	0.0010			Yes	
Mixed Salt Desert	U-A SAP	U-A Annual Spp	Late-Spring-Cattle-Grazing-byYr	0.0050	0.0010			Yes	
Mixed Salt Desert	U-A SAP	U-A Annual Spp	Replacement Fire	0.1000				Yes	
Mixed Salt Desert	U-A SAP	U-A Annual Spp	Summer-Cattle-Grazing-byYr	0.0050	0.0005			Yes	
Mixed Salt Desert	U-A SAP	U-A Annual Spp	Wild-Horse-Grazing	0.0050	0.0010			Yes	
Mixed Salt Desert	U-A SAP	U-A Exotic Forbs	Exotic Invasion	0.0005				No	
Mixed Salt Desert	U-A SAP	U-A SAP	BLM-Post-Fire-Rabb	0.0100	0.6500		3	Yes	
Mixed Salt Desert	U-A SAP	U-A SAP	Early Spring-Cattle-Grazing-byYr	0.0050	0.9995			No	
Mixed Salt Desert	U-A SAP	U-A SAP	Fall-Cattle-Grazing-byYr	0.0050	0.9995			No	
Mixed Salt Desert	U-A SAP	U-A SAP	FeralHorse-Grazing	0.0050	0.9990			2 No	
Mixed Salt Desert	U-A SAP	U-A SAP	Late-Spring-Cattle-Grazing-byYr	0.0050	0.9990			1 No	
Mixed Salt Desert	U-A SAP	U-A SAP	Summer-Cattle-Grazing-byYr	0.0050	0.9995			No	
Mixed Salt Desert	U-A SAP	U-A SAP	Very-Web-Year	0.0181				Yes	
Mixed Salt Desert	U-A SAP	U-A SAP	Wild-Horse-Grazing	0.0050	0.9990			2 No	
Mixed Salt Desert	U-A SAP	U-A ISI	BLM-Post-Fire-Rabb	0.0100	0.1750		3	Yes	
Mixed Salt Desert	U-A SAP	U-A SHAS	BLM-Post-Fire-Rabb	0.0100	0.1750		3	Yes	
Mixed Salt Desert	U-A Seeded Native	A All	Natural-Recovery	0.3330				No	
Mixed Salt Desert	U-A Seeded Native	U-A Bare Ground	Early Spring-Cattle-Grazing-byYr	0.0050			3	Yes	
Mixed Salt Desert	U-A Seeded Native	U-A Bare Ground	Early Spring-Cattle-Grazing-byYr	0.0050	0.0005		6	Yes	
Mixed Salt Desert	U-A Seeded Native	U-A Bare Ground	Fall-Cattle-Grazing-byYr	0.0050			3	Yes	
Mixed Salt Desert	U-A Seeded Native	U-A Bare Ground	Fall-Cattle-Grazing-byYr	0.0050	0.0005		6	Yes	
Mixed Salt Desert	U-A Seeded Native	U-A Bare Ground	FeralHorse-Grazing	0.0050			3	Yes	
Mixed Salt Desert	U-A Seeded Native	U-A Bare Ground	FeralHorse-Grazing	0.0050			6	Yes	
Mixed Salt Desert	U-A Seeded Native	U-A Bare Ground	Late-Spring-Cattle-Grazing-byYr	0.0050	0.0010		6	Yes	
Mixed Salt Desert	U-A Seeded Native	U-A Bare Ground	Late-Spring-Cattle-Grazing-byYr	0.0050	0.0005		3	Yes	
Mixed Salt Desert	U-A Seeded Native	U-A Bare Ground	Late-Spring-Cattle-Grazing-byYr	0.0050	0.0005		6	Yes	
Mixed Salt Desert	U-A Seeded Native	U-A Bare Ground	Severe Drought	0.0070			1	2	Yes
Mixed Salt Desert	U-A Seeded Native	U-A Bare Ground	Summer-Cattle-Grazing-byYr	0.0050			3	5	Yes
Mixed Salt Desert	U-A Seeded Native	U-A Bare Ground	Summer-Cattle-Grazing-byYr	0.0050	0.0005		6	Yes	
Mixed Salt Desert	U-A Seeded Native	U-A Bare Ground	Wild-Horse-Grazing	0.0050			3	5	Yes
Mixed Salt Desert	U-A Seeded Native	U-A Bare Ground	Wild-Horse-Grazing	0.0050			3	5	Yes

Mixed Salt Desert	U-A Seeded Native	U-A Bare Ground	Wild-Horse-Grazing	0.0050	0.0010	6	Yes
Mixed Salt Desert	U-A Seeded Native	U-A Depleted	Late-Spring-Cattle-Grazing-byYr	0.0050	0.0005	6	1 No
Mixed Salt Desert	U-A Seeded Native	U-A SAP	AS-Invasion	0.0050			No
Mixed Salt Desert	U-A Seeded Native	U-A Seeded Native	Early-Spring-Cattle-Grazing-byYr	0.0050	0.9995	6	No
Mixed Salt Desert	U-A Seeded Native	U-A Seeded Native	Fall-Cattle-Grazing-byYr	0.0050	0.9995	6	No
Mixed Salt Desert	U-A Seeded Native	U-A Seeded Native	Feral-Horse-Grazing	0.0050	0.9990	6	2 No
Mixed Salt Desert	U-A Seeded Native	U-A Seeded Native	Late-Spring-Cattle-Grazing-byYr	0.0050	0.9990	6	1 No
Mixed Salt Desert	U-A Seeded Native	U-A Seeded Native	Summer-Cattle-Grazing-byYr	0.0050	0.9995	6	No
Mixed Salt Desert	U-A Seeded Native	U-A Seeded Native	Very-Web-Year	0.0181			Yes
Mixed Salt Desert	U-A Seeded Native	U-A Seeded Native	Wild-Horse-Grazing	0.0050	0.9990	6	2 No
Mixed Salt Desert	U-A SI	A All	Natural-Recovery	0.0010			No 10
Mixed Salt Desert	U-A SI	U-A Bare Ground	Feral-Horse-Grazing	0.0050		2	Yes
Mixed Salt Desert	U-A SI	U-A Bare Ground	Severe-Drought	0.0070		1	2 Yes
Mixed Salt Desert	U-A SI	U-A Bare Ground	Wild-Horse-Grazing	0.0050		2	Yes
Mixed Salt Desert	U-A SI	U-A SI	Early-Spring-Cattle-Grazing-byYr	0.0050		3	No
Mixed Salt Desert	U-A SI	U-A SI	Fall-Cattle-Grazing-byYr	0.0050		3	No
Mixed Salt Desert	U-A SI	U-A SI	Feral-Horse-Grazing	0.0050		3	2 No
Mixed Salt Desert	U-A SI	U-A SI	Late-Spring-Cattle-Grazing-byYr	0.0050		3	1 No
Mixed Salt Desert	U-A SI	U-A SI	Summer-Cattle-Grazing-byYr	0.0050		3	No
Mixed Salt Desert	U-A SI	U-A SI	Wild-Horse-Grazing	0.0050		3	2 No
Mixed Salt Desert	U-A SI	U-A SI	AS-Invasion	0.0010			No
Mixed Salt Desert	U-A SI	U-A Annual Spp	Feral-Horse-Grazing	0.0050		2	Yes
Mixed Salt Desert	U-A SI	U-A Annual Spp	Severe-Drought	0.0070		2	Yes
Mixed Salt Desert	U-A SI	U-A Annual Spp	Wild-Horse-Grazing	0.0050		2	Yes
Mixed Salt Desert	U-A SI	U-A SI	Competition	0.3300			No
Mixed Salt Desert	U-A SI	U-A SI	Early-Spring-Cattle-Grazing-byYr	0.0050		3	No
Mixed Salt Desert	U-A SI	U-A SI	Fall-Cattle-Grazing-byYr	0.0050		3	No
Mixed Salt Desert	U-A SI	U-A SI	Feral-Horse-Grazing	0.0050		3	2 No
Mixed Salt Desert	U-A SI	U-A SI	Late-Spring-Cattle-Grazing-byYr	0.0050		3	1 No
Mixed Salt Desert	U-A SI	U-A SI	Replacement-Fire	0.0010			Yes 1
Mixed Salt Desert	U-A SI	U-A SI	Summer-Cattle-Grazing-byYr	0.0050		3	No
Mixed Salt Desert	U-A SI	U-A SI	Web-Year	0.0670			No
Mixed Salt Desert	U-A SI	U-A SI	Wild-Horse-Grazing	0.0050		3	2 No
Mixed Salt Desert	U-B Depleted	U-B Depleted	Severe-Drought	0.0070	0.1000		Yes
Mixed Salt Desert	U-B Depleted	U-B Depleted	Very-Web-Year	0.0181			Yes
Mixed Salt Desert	U-B Depleted	U-B Depleted	Severe-Drought	0.0070	0.9000		Yes
Mixed Salt Desert	U-B Exotic Forbs	U-B Exotic Forbs	Exotic-Invasion	0.0005			Yes
Mixed Salt Desert	U-B Exotic Forbs	U-B Exotic Forbs	AS-Invasion	0.0050			Yes
Mixed Salt Desert	U-B Exotic Forbs	U-B Exotic Forbs	Exotic-Control	0.0100	0.5000		Yes 20
Mixed Salt Desert	U-B Exotic Forbs	U-B Exotic Forbs	Exotic-Control	0.0100	0.5000		Yes
Mixed Salt Desert	U-B SA	U-A Annual Spp	Early-Spring-Cattle-Grazing-byYr	0.0050	0.0005		Yes
Mixed Salt Desert	U-B SA	U-A Annual Spp	Fall-Cattle-Grazing-byYr	0.0050	0.0005		Yes
Mixed Salt Desert	U-B SA	U-A Annual Spp	Feral-Horse-Grazing	0.0050	0.0010		Yes
Mixed Salt Desert	U-B SA	U-A Annual Spp	Replacement-Fire	0.0250		19	Yes 1
Mixed Salt Desert	U-B SA	U-A Annual Spp	Replacement-Fire	0.0250		20	Yes
Mixed Salt Desert	U-B SA	U-A Annual Spp	Severe-Drought	0.0070	0.1000		Yes
Mixed Salt Desert	U-B SA	U-A Annual Spp	Very-Web-Year	0.0181			Yes
Mixed Salt Desert	U-B SA	U-A Annual Spp	Wild-Horse-Grazing	0.0050	0.0010		Yes
Mixed Salt Desert	U-B SA	U-A Exotic Forbs	Exotic-Invasion	0.0005			No
Mixed Salt Desert	U-B SA	U-B SA	Early-Spring-Cattle-Grazing-byYr	0.0050	0.9995		No
Mixed Salt Desert	U-B SA	U-B SA	Fall-Cattle-Grazing-byYr	0.0050	0.9995		No
Mixed Salt Desert	U-B SA	U-B SA	Feral-Horse-Grazing	0.0050	0.9990		2 No
Mixed Salt Desert	U-B SA	U-B SA	Severe-Drought	0.0070	0.9000		Yes
Mixed Salt Desert	U-B SA	U-B SA	Wild-Horse-Grazing	0.0050	0.9990		2 No
Mixed Salt Desert	U-B SAP	U-A Annual Spp	Early-Spring-Cattle-Grazing-byYr	0.0050	0.0005		No
Mixed Salt Desert	U-B SAP	U-A Annual Spp	Fall-Cattle-Grazing-byYr	0.0050	0.0005		No
Mixed Salt Desert	U-B SAP	U-A Annual Spp	Feral-Horse-Grazing	0.0050	0.0005		Yes
Mixed Salt Desert	U-B SAP	U-A Annual Spp	Late-Spring-Cattle-Grazing-byYr	0.0050	0.0005		Yes
Mixed Salt Desert	U-B SAP	U-A Annual Spp	Replacement-Fire	0.0100			Yes 1
Mixed Salt Desert	U-B SAP	U-A Annual Spp	Summer-Cattle-Grazing-byYr	0.0050	0.9990		No
Mixed Salt Desert	U-B SAP	U-A Annual Spp	Wild-Horse-Grazing	0.0050	0.0005		Yes
Mixed Salt Desert	U-B SAP	U-A SAP	Very-Web-Year	0.0181			Yes
Mixed Salt Desert	U-B SAP	U-B Exotic Forbs	Exotic-Invasion	0.0005			No
Mixed Salt Desert	U-B SA	U-B SA	Feral-Horse-Grazing	0.0050	0.0005		2 No
Mixed Salt Desert	U-B SA	U-B SA	Late-Spring-Cattle-Grazing-byYr	0.0050	0.0005		1 No
Mixed Salt Desert	U-B SA	U-B SA	Wild-Horse-Grazing	0.0050	0.0005		2 No
Mixed Salt Desert	U-B SA	U-B SAP	Early-Spring-Cattle-Grazing-byYr	0.0050	0.9995		No
Mixed Salt Desert	U-B SA	U-B SAP	Fall-Cattle-Grazing-byYr	0.0050	0.9995		No
Mixed Salt Desert	U-B SA	U-B SAP	Feral-Horse-Grazing	0.0050	0.9990		2 No
Mixed Salt Desert	U-B SA	U-B SAP	Late-Spring-Cattle-Grazing-byYr	0.0050	0.9990		1 No
Mixed Salt Desert	U-B SA	U-B SAP	Severe-Drought	0.0070			Yes
Mixed Salt Desert	U-B SA	U-B SAP	Summer-Cattle-Grazing-byYr	0.0050	0.9995		No
Mixed Salt Desert	U-B SAP	U-B SAP	Wild-Horse-Grazing	0.0050	0.9990		2 No
Mixed Salt Desert	U-B Seeded Native	B Open	Natural-Recovery	0.3300			No
Mixed Salt Desert	U-B Seeded Native	U-A Bare Ground	Early-Spring-Cattle-Grazing-byYr	0.0050	0.0005		Yes 5
Mixed Salt Desert	U-B Seeded Native	U-A Bare Ground	Fall-Cattle-Grazing-byYr	0.0050	0.0005		Yes
Mixed Salt Desert	U-B Seeded Native	U-A Bare Ground	Feral-Horse-Grazing	0.0050	0.0010		Yes
Mixed Salt Desert	U-B Seeded Native	U-A Bare Ground	Late-Spring-Cattle-Grazing-byYr	0.0050	0.0005		Yes
Mixed Salt Desert	U-B Seeded Native	U-A Bare Ground	Summer-Cattle-Grazing-byYr	0.0050	0.0005		Yes
Mixed Salt Desert	U-B Seeded Native	U-A Bare Ground	Wild-Horse-Grazing	0.0050	0.0010		Yes
Mixed Salt Desert	U-B Seeded Native	U-A Seeded Native	Severe-Drought	0.0070	0.1000		Yes
Mixed Salt Desert	U-B Seeded Native	U-B Seeded Native	Very-Web-Year	0.0181			Yes
Mixed Salt Desert	U-B Seeded Native	U-B Depleted	Late-Spring-Cattle-Grazing-byYr	0.0050	0.0005		1 No
Mixed Salt Desert	U-B Seeded Native	U-B SAP	AS-Invasion	0.0050			No
Mixed Salt Desert	U-B Seeded Native	U-B Seeded Native	Early-Spring-Cattle-Grazing-byYr	0.0050	0.9995		No
Mixed Salt Desert	U-B Seeded Native	U-B Seeded Native	Fall-Cattle-Grazing-byYr	0.0050	0.9995		No
Mixed Salt Desert	U-B Seeded Native	U-B Seeded Native	Feral-Horse-Grazing	0.0050	0.9990		2 No
Mixed Salt Desert	U-B Seeded Native	U-B Seeded Native	Late-Spring-Cattle-Grazing-byYr	0.0050	0.9990		1 No
Mixed Salt Desert	U-B Seeded Native	U-B Seeded Native	Severe-Drought	0.0070	0.9000		Yes
Mixed Salt Desert	U-B Seeded Native	U-B Seeded Native	Summer-Cattle-Grazing-byYr	0.0050	0.9995		No
Mixed Salt Desert	U-B Seeded Native	U-B Seeded Native	Wild-Horse-Grazing	0.0050	0.9990		2 No
Mixed Salt Desert	U-B SI	B Open	Natural-Recovery	0.0010			No 10
Mixed Salt Desert	U-B SI	U-A SI	Severe-Drought	0.0070	0.1000		Yes
Mixed Salt Desert	U-B SI	U-A SI	Very-Web-Year	0.0181			Yes
Mixed Salt Desert	U-B SI	U-B SI	Early-Spring-Cattle-Grazing-byYr	0.0050			No
Mixed Salt Desert	U-B SI	U-B SI	Fall-Cattle-Grazing-byYr	0.0050			No
Mixed Salt Desert	U-B SI	U-B SI	Feral-Horse-Grazing	0.0050			2 No
Mixed Salt Desert	U-B SI	U-B SI	Late-Spring-Cattle-Grazing-byYr	0.0050			1 No
Mixed Salt Desert	U-B SI	U-B SI	Severe-Drought	0.0070	0.9000		Yes
Mixed Salt Desert	U-B SI	U-B SI	Summer-Cattle-Grazing-byYr	0.0050			2 No
Mixed Salt Desert	U-B SI	U-B SI	Wild-Horse-Grazing	0.0050			No
Mixed Salt Desert	U-B SI	U-B SI	AS-Invasion	0.0010		19	No
Mixed Salt Desert	U-B SI	U-B SI	Replacement-Fire	0.0010		20	Yes 1
Mixed Salt Desert	U-B SI	U-B SI	Replacement-Fire	0.0010			Yes
Mixed Salt Desert	U-B SI	U-B SI	Severe-Drought	0.0070	0.1000		Yes
Mixed Salt Desert	U-B SI	U-B SI	Very-Web-Year	0.0181			Yes
Mixed Salt Desert	U-B SI	U-B SI	Competition	0.3300			No 3
Mixed Salt Desert	U-B SI	U-B SI	Early-Spring-Cattle-Grazing-byYr	0.0050			No
Mixed Salt Desert	U-B SI	U-B SI	Fall-Cattle-Grazing-byYr	0.0050			No
Mixed Salt Desert	U-B SI	U-B SI	Feral-Horse-Grazing	0.0050			2 No
Mixed Salt Desert	U-B SI	U-B SI	Late-Spring-Cattle-Grazing-byYr	0.0050			1 No
Mixed Salt Desert	U-B SI	U-B SI	Severe-Drought	0.0070	0.9000		Yes
Mixed Salt Desert	U-B SI	U-B SI	Summer-Cattle-Grazing-byYr	0.0050			No
Mixed Salt Desert	U-B SI	U-B SI	Web-Year	0.0670			No
Mixed Salt Desert	U-B SI	U-B SI	Wild-Horse-Grazing	0.0050			2 No
Moist Floodplain	A-Cottonwood Closed	A-Cottonwood Closed	Early-Spring-Cattle-Grazing-byYr	0.0675	0.9995		No 20
Moist Floodplain	A-Cottonwood Closed	A-Cottonwood Closed	Fall-Cattle-Grazing-byYr	0.0675	0.9995		No 20
Moist Floodplain	A-Cottonwood Closed	A-Cottonwood Closed	Feral-Horse-Grazing	0.1000	0.9990		Yes

Moist Floodplain	U-C-FoxtailBarley	B-Willow Closed	Flooding-100yr	0.0100	0.0099	Yes	
Moist Floodplain	U-C-FoxtailBarley	B-Willow Closed	Floodplain-Restoration	0.0000	0.9000	Yes	
Moist Floodplain	U-C-FoxtailBarley	U-A-FoxtailBarley	Flooding-100yr	0.0100	0.9000	Yes	
Moist Floodplain	U-C-FoxtailBarley	U-A-FoxtailBarley	Floodplain-Restoration	0.0000	0.1000	Yes	
Moist Floodplain	U-C-FoxtailBarley	U-A-FoxtailBarley	ReplacementFire	0.1000		Yes	
Moist Floodplain	U-C-FoxtailBarley	U-Exotic Forb&Tree	Excito-Invasion	0.0010		Yes	5
Moist Floodplain	U-C-FoxtailBarley	U-C-FoxtailBarley	Fence&Water-Delivery	0.0100		No	19
Moist Floodplain	U-C-FoxtailBarley	U-C-FoxtailBarley	WeedInventorySpot-Treat	0.0100		No	3
Moist Floodplain	U-C-Inseed-EFT	A-Cottonwood Closed	Flooding-100yr	0.0100	0.0100	Yes	
Moist Floodplain	U-C-Inseed-EFT	A-Willow Closed	Flooding-100yr	0.0100	0.0099	Yes	
Moist Floodplain	U-C-Inseed-EFT	A-Willow Closed	Floodplain-Restoration	0.0000	0.9000	Yes	
Moist Floodplain	U-C-Inseed-EFT	U-A-Inseed-EFT	Excito-Control	0.0100	0.4000	Yes	20
Moist Floodplain	U-C-Inseed-EFT	U-A-Inseed-EFT	Flooding-100yr	0.0100	0.9000	Yes	
Moist Floodplain	U-C-Inseed-EFT	U-A-Inseed-EFT	Floodplain-Restoration	0.0000	0.1000	Yes	
Moist Floodplain	U-C-Inseed-EFT	U-A-Inseed-EFT	ReplacementFire	0.0200		2 Yes	20
Moist Floodplain	U-C-Inseed-EFT	U-C-Desertified	Excito-Control	0.0100	0.6000	Yes	20
Moist Floodplain	U-C-Inseed-EFT	U-C-Desertified	Early-Spring-Cattle-Grazing-byYr	0.0590		No	20
Moist Floodplain	U-C-Inseed-EFT	U-C-Desertified	Fall-Cattle-Grazing-byYr	0.0675		No	20
Moist Floodplain	U-C-Inseed-EFT	U-C-Desertified	Fence&Water-Delivery	0.0100		No	19
Moist Floodplain	U-C-Inseed-EFT	U-C-Desertified	FeralHorse-Grazing	0.1000		2 No	
Moist Floodplain	U-C-Inseed-EFT	U-C-Desertified	Late-Spring-Cattle-Grazing-byYr	0.0590		1 No	20
Moist Floodplain	U-C-Inseed-EFT	U-C-Desertified	Summer-Cattle-Grazing-byYr	0.0675		No	20
Moist Floodplain	U-C-Inseed-EFT	U-C-Desertified	Wild-Horse-Grazing	0.1000		2 No	
Moist Floodplain	U-CSAP	A-Cottonwood Closed	Flooding-100yr	0.0100	0.0100	Yes	
Moist Floodplain	U-CSAP	A-Willow Closed	Flooding-100yr	0.0100	0.0099	Yes	
Moist Floodplain	U-CSAP	A-Willow Closed	Floodplain-Restoration	0.0000	0.9000	Yes	
Moist Floodplain	U-CSAP	U-A-Annual Spp	Early-Spring-Cattle-Grazing-byYr	0.0590	0.0005	Yes	20
Moist Floodplain	U-CSAP	U-A-Annual Spp	Fall-Cattle-Grazing-byYr	0.0675	0.0005	Yes	20
Moist Floodplain	U-CSAP	U-A-Annual Spp	FeralHorse-Grazing	0.0100	0.0100	Yes	20
Moist Floodplain	U-CSAP	U-A-Annual Spp	Late-Spring-Cattle-Grazing-byYr	0.0590	0.0010	Yes	20
Moist Floodplain	U-CSAP	U-A-Annual Spp	ReplacementFire	0.0200		Yes	
Moist Floodplain	U-CSAP	U-A-Annual Spp	Summer-Cattle-Grazing-byYr	0.0675	0.0005	Yes	20
Moist Floodplain	U-CSAP	U-A-Annual Spp	Wild-Horse-Grazing	0.1000	0.0010	No	20
Moist Floodplain	U-CSAP	U-C-Inseed-EFT	Excito-Invasion	0.0010		No	5
Moist Floodplain	U-CSAP	U-CSAP	Early-Spring-Cattle-Grazing-byYr	0.0590	0.9995	No	20
Moist Floodplain	U-CSAP	U-CSAP	Fall-Cattle-Grazing-byYr	0.0675	0.9995	No	20
Moist Floodplain	U-CSAP	U-CSAP	Fence&Water-Delivery	0.0100		No	19
Moist Floodplain	U-CSAP	U-CSAP	FeralHorse-Grazing	0.1000	0.9990	2 No	
Moist Floodplain	U-CSAP	U-CSAP	Flooding-100yr	0.0100	0.9900	Yes	
Moist Floodplain	U-CSAP	U-CSAP	Floodplain-Restoration	0.0000	0.1000	Yes	
Moist Floodplain	U-CSAP	U-CSAP	Late-Spring-Cattle-Grazing-byYr	0.0590	0.9990	1 No	20
Moist Floodplain	U-CSAP	U-CSAP	Summer-Cattle-Grazing-byYr	0.0675	0.9995	No	20
Moist Floodplain	U-CSAP	U-CSAP	WeedInventorySpot-Treat	0.0100		No	3
Moist Floodplain	U-CSAP	U-CSAP	Wild-Horse-Grazing	0.1000	0.9990	2 No	
Moist Floodplain	U-CSHrb-Frb Encr	U-CSHrb-Frb Encr	Flooding-100yr	0.0100		Yes	
Moist Floodplain	U-C-Desertified	U-C-Desertified	Excito-Invasion	0.0010	0.0005	No	20
Moist Floodplain	U-C-Desertified	U-C-Desertified	Fall-Cattle-Grazing-byYr	0.0675	0.0005	No	20
Moist Floodplain	U-C-Desertified	U-C-Desertified	FeralHorse-Grazing	0.1000	0.0010	2 No	
Moist Floodplain	U-C-Desertified	U-C-Desertified	Late-Spring-Cattle-Grazing-byYr	0.0590	0.0010	Yes	20
Moist Floodplain	U-C-Desertified	U-C-Desertified	Summer-Cattle-Grazing-byYr	0.0675	0.0005	No	20
Moist Floodplain	U-C-Desertified	U-C-Desertified	Wild-Horse-Grazing	0.1000	0.0010	2 No	
Moist Floodplain	U-C-Exotic Forb&Tree	U-C-Exotic Forb&Tree	Excito-Invasion	0.0010		Yes	5
Moist Floodplain	U-CSHrb-Frb Encr	U-CSHrb-Frb Encr	Early-Spring-Cattle-Grazing-byYr	0.0590	0.9995	No	20
Moist Floodplain	U-CSHrb-Frb Encr	U-CSHrb-Frb Encr	Fall-Cattle-Grazing-byYr	0.0675	0.9995	No	20
Moist Floodplain	U-CSHrb-Frb Encr	U-CSHrb-Frb Encr	Fence&Water-Delivery	0.0100		No	19
Moist Floodplain	U-CSHrb-Frb Encr	U-CSHrb-Frb Encr	FeralHorse-Grazing	0.1000	0.9990	2 No	
Moist Floodplain	U-CSHrb-Frb Encr	U-CSHrb-Frb Encr	Late-Spring-Cattle-Grazing-byYr	0.0590	0.9990	No	20
Moist Floodplain	U-CSHrb-Frb Encr	U-CSHrb-Frb Encr	Summer-Cattle-Grazing-byYr	0.0675	0.9995	No	20
Moist Floodplain	U-CSHrb-Frb Encr	U-CSHrb-Frb Encr	WeedInventorySpot-Treat	0.0100		No	3
Moist Floodplain	U-CSHrb-Frb Encr	U-CSHrb-Frb Encr	Wild-Horse-Grazing	0.1000	0.9990	2 No	
Moist Floodplain	A-Cottonwood Closed	A-Cottonwood Closed	Early-Spring-Cattle-Grazing-byYr	0.0278	0.9995	No	20
Moist Floodplain	A-Cottonwood Closed	A-Cottonwood Closed	Fall-Cattle-Grazing-byYr	0.0317	0.9995	No	20
Moist Floodplain	A-Cottonwood Closed	A-Cottonwood Closed	Fence&Water-Delivery	0.0100		No	19
Moist Floodplain	A-Cottonwood Closed	A-Cottonwood Closed	FeralHorse-Grazing	0.1000	0.9990	Yes	20
Moist Floodplain	A-Cottonwood Closed	A-Cottonwood Closed	Flooding-10yr	0.1400		Yes	
Moist Floodplain	A-Cottonwood Closed	A-Cottonwood Closed	Late-Spring-Cattle-Grazing-byYr	0.0278	0.9990	Yes	20
Moist Floodplain	A-Cottonwood Closed	A-Cottonwood Closed	NativeGrazing	0.0200		Yes	
Moist Floodplain	A-Cottonwood Closed	A-Cottonwood Closed	Summer-Cattle-Grazing-byYr	0.0317	0.9995	Yes	20
Moist Floodplain	A-Cottonwood Closed	A-Cottonwood Closed	WeedInventorySpot-Treat	0.0100		No	3
Moist Floodplain	A-Cottonwood Closed	A-Cottonwood Closed	Wild-Horse-Grazing	0.1000	0.9990	Yes	20
Moist Floodplain	A-Cottonwood Closed	U-A-Exotic Forb&Tree	Excito-Invasion	0.0010		Yes	5
Moist Floodplain	A-Cottonwood Closed	U-A-Hummocld	Early-Spring-Cattle-Grazing-byYr	0.0278	0.0005	No	20
Moist Floodplain	A-Cottonwood Closed	U-A-Hummocld	Fall-Cattle-Grazing-byYr	0.0317	0.0005	No	20
Moist Floodplain	A-Cottonwood Closed	U-A-Hummocld	FeralHorse-Grazing	0.1000	0.0010	Yes	20
Moist Floodplain	A-Cottonwood Closed	U-A-Hummocld	Late-Spring-Cattle-Grazing-byYr	0.0278	0.0010	Yes	20
Moist Floodplain	A-Cottonwood Closed	U-A-Hummocld	Summer-Cattle-Grazing-byYr	0.0278	0.0005	Yes	20
Moist Floodplain	A-Cottonwood Closed	U-A-Hummocld	Wild-Horse-Grazing	0.1000	0.0010	Yes	20
Moist Floodplain	A-Willow Closed	A-Willow Closed	Early-Spring-Cattle-Grazing-byYr	0.0667	0.9995	No	20
Moist Floodplain	A-Willow Closed	A-Willow Closed	Fall-Cattle-Grazing-byYr	0.0762	0.9995	No	20
Moist Floodplain	A-Willow Closed	A-Willow Closed	Fence&Water-Delivery	0.0100		No	19
Moist Floodplain	A-Willow Closed	A-Willow Closed	FeralHorse-Grazing	0.1000	0.9990	Yes	20
Moist Floodplain	A-Willow Closed	A-Willow Closed	Late-Spring-Cattle-Grazing-byYr	0.0667	0.9990	Yes	20
Moist Floodplain	A-Willow Closed	A-Willow Closed	Summer-Cattle-Grazing-byYr	0.0762	0.9995	Yes	20
Moist Floodplain	A-Willow Closed	A-Willow Closed	WeedInventorySpot-Treat	0.0100		No	3
Moist Floodplain	A-Willow Closed	A-Willow Closed	Wild-Horse-Grazing	0.1000	0.9990	Yes	20
Moist Floodplain	A-Willow Closed	U-A-Exotic Forb&Tree	Excito-Invasion	0.0010		No	5
Moist Floodplain	A-Willow Closed	U-A-Hummocld	Early-Spring-Cattle-Grazing-byYr	0.0667	0.0005	No	20
Moist Floodplain	A-Willow Closed	U-A-Hummocld	Fall-Cattle-Grazing-byYr	0.0762	0.0005	No	20
Moist Floodplain	A-Willow Closed	U-A-Hummocld	FeralHorse-Grazing	0.1000	0.0010	Yes	20
Moist Floodplain	A-Willow Closed	U-A-Hummocld	Late-Spring-Cattle-Grazing-byYr	0.0667	0.0010	Yes	20
Moist Floodplain	A-Willow Closed	U-A-Hummocld	Summer-Cattle-Grazing-byYr	0.0762	0.0005	Yes	20
Moist Floodplain	A-Willow Closed	U-A-Hummocld	Wild-Horse-Grazing	0.1000	0.0010	Yes	20
Moist Floodplain	B-Cottonwood Closed	B-Cottonwood Closed	Flooding-100yr	0.0100		20	19
Moist Floodplain	B-Cottonwood Closed	A-Cottonwood Closed	Flooding-20yr	0.0800		4	Yes
Moist Floodplain	B-Cottonwood Closed	A-Willow Closed	ReplacementFire	0.0010		Yes	
Moist Floodplain	B-Cottonwood Closed	B-Cottonwood Closed	Early-Spring-Cattle-Grazing-byYr	0.0278	0.9995	No	20
Moist Floodplain	B-Cottonwood Closed	B-Cottonwood Closed	Fall-Cattle-Grazing-byYr	0.0317	0.9995	No	20
Moist Floodplain	B-Cottonwood Closed	B-Cottonwood Closed	Fence&Water-Delivery	0.0100		No	19
Moist Floodplain	B-Cottonwood Closed	B-Cottonwood Closed	FeralHorse-Grazing	0.1000	0.9990	No	20
Moist Floodplain	B-Cottonwood Closed	B-Cottonwood Closed	Late-Spring-Cattle-Grazing-byYr	0.0278	0.9990	No	20
Moist Floodplain	B-Cottonwood Closed	B-Cottonwood Closed	Summer-Cattle-Grazing-byYr	0.0317	0.9995	No	20
Moist Floodplain	B-Cottonwood Closed	B-Cottonwood Closed	WeedInventorySpot-Treat	0.0100		No	3
Moist Floodplain	B-Cottonwood Closed	B-Cottonwood Closed	Wild-Horse-Grazing	0.1000	0.9990	No	20
Moist Floodplain	B-Cottonwood Closed	U-B-Exotic Forb&Tree	Excito-Invasion	0.0010		No	5
Moist Floodplain	B-Cottonwood Closed	U-B-Shrb-Frb Encr	Early-Spring-Cattle-Grazing-byYr	0.0278	0.0005	No	20
Moist Floodplain	B-Cottonwood Closed	U-B-Shrb-Frb Encr	Fall-Cattle-Grazing-byYr	0.0317	0.0005	No	20
Moist Floodplain	B-Cottonwood Closed	U-B-Shrb-Frb Encr	FeralHorse-Grazing	0.1000	0.0005	No	20
Moist Floodplain	B-Cottonwood Closed	U-B-Shrb-Frb Encr	Late-Spring-Cattle-Grazing-byYr	0.0278	0.0010	No	20
Moist Floodplain	B-Cottonwood Closed	U-B-Shrb-Frb Encr	Summer-Cattle-Grazing-byYr	0.0317	0.0005	No	20
Moist Floodplain	B-Cottonwood Closed	U-B-Shrb-Frb Encr	Wild-Horse-Grazing	0.1000	0.0010	No	20
Moist Floodplain	B-Willow Closed	A-Willow Closed	ReplacementFire	0.0010		Yes	
Moist Floodplain	B-Willow Closed	B-Willow Closed	Early-Spring-Cattle-Grazing-byYr	0.0667	0.9995	No	20
Moist Floodplain	B-Willow Closed	B-Willow Closed	Fall-Cattle-Grazing-byYr	0.0762	0.9995	No	20
Moist Floodplain	B-Willow Closed	B-Willow Closed	Fence&Water-Delivery	0.0100		No	19
Moist Floodplain	B-Willow Closed	B-Willow Closed	FeralHorse-Grazing	0.1000	0.9990	No	20
Moist Floodplain	B-Willow Closed	B-Willow Closed	Late-Spring-Cattle-Grazing-byYr	0.0667	0.9990	No	20
Moist Floodplain	B-Willow Closed	B-Willow Closed	Summer-Cattle-Grazing-byYr	0.0762	0.9995	No	20
Moist Floodplain	B-Willow Closed	B-Willow Closed	WeedInventorySpot-Treat	0.0100		No	3

Montane Riparian	B-Willow Closed	B-Willow Closed	Wild-Horse-Grazing	0.1000	0.9990	No	20
Montane Riparian	B-Willow Closed	U-B Exotic Forb&Tree	Exotic-Invasion	0.0010		No	5
Montane Riparian	B-Willow Closed	U-BShrb-Frb Encl	Early-Spring-Cattle-Grazing-byYr	0.0667	0.0005	Yes	20
Montane Riparian	B-Willow Closed	U-BShrb-Frb Encl	Fall-Cattle-Grazing-byYr	0.0762	0.0005	Yes	20
Montane Riparian	B-Willow Closed	U-BShrb-Frb Encl	FeralHorse-Grazing	0.1000	0.0010	No	20
Montane Riparian	B-Willow Closed	U-BShrb-Frb Encl	Late-Spring-Cattle-Grazing-byYr	0.0667	0.0010	Yes	20
Montane Riparian	B-Willow Closed	U-BShrb-Frb Encl	Summer-Cattle-Grazing-byYr	0.0762	0.0005	Yes	20
Montane Riparian	B-Willow Closed	U-BShrb-Frb Encl	Wild-Horse-Grazing	0.1000	0.0010	Yes	20
Montane Riparian	C-Cottonwood Closed	C-Cottonwood Closed	Flooding-100Yr	0.0100		Yes	20
Montane Riparian	C-Cottonwood Closed	A-Willow Closed	ReplacementFire	0.0070		Yes	
Montane Riparian	C-Cottonwood Closed	C-Cottonwood Closed	Early-Spring-Cattle-Grazing-byYr	0.0278	0.9995	No	20
Montane Riparian	C-Cottonwood Closed	C-Cottonwood Closed	Fall-Cattle-Grazing-byYr	0.0317	0.9995	No	20
Montane Riparian	C-Cottonwood Closed	C-Cottonwood Closed	Fence&Water-Delivery	0.0100		No	19
Montane Riparian	C-Cottonwood Closed	C-Cottonwood Closed	FeralHorse-Grazing	0.1000	0.9990	No	20
Montane Riparian	C-Cottonwood Closed	C-Cottonwood Closed	Late-Spring-Cattle-Grazing-byYr	0.0278	0.9990	No	20
Montane Riparian	C-Cottonwood Closed	C-Cottonwood Closed	Summer-Cattle-Grazing-byYr	0.0317	0.9995	No	20
Montane Riparian	C-Cottonwood Closed	C-Cottonwood Closed	WeedInventorySpot-Treat	0.0100		No	3
Montane Riparian	C-Cottonwood Closed	C-Cottonwood Closed	Wild-Horse-Grazing	0.1000	0.9990	No	20
Montane Riparian	C-Cottonwood Closed	U-C Exotic Forb&Tree	Exotic-Invasion	0.0010		No	5
Montane Riparian	C-Cottonwood Closed	U-CShrb-Frb Encl	Early-Spring-Cattle-Grazing-byYr	0.0278	0.0005	No	20
Montane Riparian	C-Cottonwood Closed	U-CShrb-Frb Encl	Fall-Cattle-Grazing-byYr	0.0317	0.0005	No	20
Montane Riparian	C-Cottonwood Closed	U-CShrb-Frb Encl	FeralHorse-Grazing	0.1000	0.0010	No	20
Montane Riparian	C-Cottonwood Closed	U-CShrb-Frb Encl	Late-Spring-Cattle-Grazing-byYr	0.0278	0.0010	No	20
Montane Riparian	C-Cottonwood Closed	U-CShrb-Frb Encl	Summer-Cattle-Grazing-byYr	0.0317	0.0005	No	20
Montane Riparian	C-Cottonwood Closed	U-CShrb-Frb Encl	Wild-Horse-Grazing	0.1000	0.0010	No	20
Montane Riparian	C-Willow Closed	C-Cottonwood Closed	Flooding-100Yr	0.0100	0.9000	Yes	
Montane Riparian	C-Willow Closed	A-Willow Closed	Flooding-100Yr	0.0100	0.9000	Yes	
Montane Riparian	C-Willow Closed	A-Willow Closed	ReplacementFire	0.0070		Yes	
Montane Riparian	C-Willow Closed	C-Willow Closed	Early-Spring-Cattle-Grazing-byYr	0.0278	0.9995	No	20
Montane Riparian	C-Willow Closed	C-Willow Closed	Fall-Cattle-Grazing-byYr	0.0762	0.9995	No	20
Montane Riparian	C-Willow Closed	C-Willow Closed	Fence&Water-Delivery	0.0100		No	19
Montane Riparian	C-Willow Closed	C-Willow Closed	FeralHorse-Grazing	0.1000	0.9990	No	20
Montane Riparian	C-Willow Closed	C-Willow Closed	Late-Spring-Cattle-Grazing-byYr	0.0667	0.9990	No	20
Montane Riparian	C-Willow Closed	C-Willow Closed	Summer-Cattle-Grazing-byYr	0.0762	0.9995	No	20
Montane Riparian	C-Willow Closed	C-Willow Closed	WeedInventorySpot-Treat	0.0100		No	3
Montane Riparian	C-Willow Closed	C-Willow Closed	Wild-Horse-Grazing	0.1000	0.9990	No	20
Montane Riparian	C-Willow Closed	U-B Exotic Forb&Tree	Exotic-Invasion	0.0010		No	5
Montane Riparian	C-Willow Closed	U-BShrb-Frb Encl	Early-Spring-Cattle-Grazing-byYr	0.0667	0.0005	Yes	20
Montane Riparian	C-Willow Closed	U-BShrb-Frb Encl	Fall-Cattle-Grazing-byYr	0.0762	0.0005	Yes	20
Montane Riparian	C-Willow Closed	U-BShrb-Frb Encl	FeralHorse-Grazing	0.1000	0.0010	Yes	20
Montane Riparian	C-Willow Closed	U-BShrb-Frb Encl	Late-Spring-Cattle-Grazing-byYr	0.0667	0.0010	Yes	20
Montane Riparian	C-Willow Closed	U-BShrb-Frb Encl	Summer-Cattle-Grazing-byYr	0.0762	0.0005	Yes	20
Montane Riparian	C-Willow Closed	U-BShrb-Frb Encl	Wild-Horse-Grazing	0.1000	0.0010	Yes	20
Montane Riparian	PointBar Bare Ground	PointBar Bare Ground	Fence&Water-Delivery	0.0100		No	19
Montane Riparian	PointBar Bare Ground	PointBar Bare Ground	Flooding-1Yr	0.1400		Yes	
Montane Riparian	U-A Annual Spp	A-Cottonwood Closed	Flooding-100Yr	0.0100	0.0001	Yes	
Montane Riparian	U-A Annual Spp	A-Willow Closed	Flooding-100Yr	0.0100	0.0099	Yes	
Montane Riparian	U-A Annual Spp	A-Willow Closed	Floodplan-Restoration	0.0000	0.9000	Yes	
Montane Riparian	U-A Annual Spp	U-A Annual Spp	Early-Spring-Cattle-Grazing-byYr	0.1000		Yes	20
Montane Riparian	U-A Annual Spp	U-A Annual Spp	Fall-Cattle-Grazing-byYr	0.1000		No	19
Montane Riparian	U-A Annual Spp	U-A Annual Spp	Fence&Water-Delivery	0.0100		No	19
Montane Riparian	U-A Annual Spp	U-A Annual Spp	FeralHorse-Grazing	0.1000		Yes	20
Montane Riparian	U-A Annual Spp	U-A Annual Spp	Flooding-100Yr	0.0100	0.9900	Yes	
Montane Riparian	U-A Annual Spp	U-A Annual Spp	Flooding-20Yr	0.0330	0.9500	30	
Montane Riparian	U-A Annual Spp	U-A Annual Spp	Floodplan-Restoration	0.0000	0.1000	Yes	
Montane Riparian	U-A Annual Spp	U-A Annual Spp	ReplacementFire	0.0070		Yes	1
Montane Riparian	U-A Annual Spp	U-A Annual Spp	WeedInventorySpot-Treat	0.0100		No	3
Montane Riparian	U-A Annual Spp	U-A Annual Spp	Wild-Horse-Grazing	0.1000		Yes	20
Montane Riparian	U-A Annual Spp	U-Indesd-EFT	Exotic-Invasion	0.0010		No	5
Montane Riparian	U-A Annual Spp	U-Insset	UUSUU	UUSUU		30	
Montane Riparian	U-A Deserified	A-Willow Closed	Flooding-100Yr	0.0100	0.1000	Yes	
Montane Riparian	U-A Deserified	A-Willow Closed	Floodplan-Restoration	0.0000	0.9000	Yes	
Montane Riparian	U-A Deserified	U-A Annual Spp	AS-Invasion	0.0050		No	
Montane Riparian	U-A Deserified	U-A Deserified	Early-Spring-Cattle-Grazing-byYr	0.1000	0.0005	Yes	20
Montane Riparian	U-A Deserified	U-A Deserified	Early-Spring-Cattle-Grazing-byYr	0.1000	0.9995	No	20
Montane Riparian	U-A Deserified	U-A Deserified	Fall-Cattle-Grazing-byYr	0.1000	0.0005	Yes	20
Montane Riparian	U-A Deserified	U-A Deserified	Fall-Cattle-Grazing-byYr	0.1000	0.9995	No	20
Montane Riparian	U-A Deserified	U-A Deserified	Fence&Water-Delivery	0.0100		No	19
Montane Riparian	U-A Deserified	U-A Deserified	FeralHorse-Grazing	0.1000	0.0005	Yes	20
Montane Riparian	U-A Deserified	U-A Deserified	FeralHorse-Grazing	0.1000	0.9990	2	20
Montane Riparian	U-A Deserified	U-A Deserified	Flooding-100Yr	0.0100	0.9000	Yes	
Montane Riparian	U-A Deserified	U-A Deserified	Flooding-20Yr	0.0500		Yes	
Montane Riparian	U-A Deserified	U-A Deserified	Flooding-30Yr	0.0330	0.9500	30	
Montane Riparian	U-A Deserified	U-A Deserified	Floodplan-Restoration	0.0000	0.1000	Yes	
Montane Riparian	U-A Deserified	U-A Deserified	Late-Spring-Cattle-Grazing-byYr	0.1000	0.0005	Yes	20
Montane Riparian	U-A Deserified	U-A Deserified	Late-Spring-Cattle-Grazing-byYr	0.1000	0.9990	1	No
Montane Riparian	U-A Deserified	U-A Deserified	Summer-Cattle-Grazing-byYr	0.1000	0.0005	Yes	20
Montane Riparian	U-A Deserified	U-A Deserified	Summer-Cattle-Grazing-byYr	0.1000	0.9995	Yes	20
Montane Riparian	U-A Deserified	U-A Deserified	WeedInventorySpot-Treat	0.0100		No	3
Montane Riparian	U-A Deserified	U-A Deserified	Wild-Horse-Grazing	0.1000	0.0005	Yes	20
Montane Riparian	U-A Deserified	U-A Deserified	Wild-Horse-Grazing	0.1000	0.0005	2	No
Montane Riparian	U-A Deserified	U-A Early Shrub	FeralHorse-Grazing	0.1000	0.0005	Yes	20
Montane Riparian	U-A Deserified	U-A Early Shrub	Late-Spring-Cattle-Grazing-byYr	0.1000	0.0005	Yes	20
Montane Riparian	U-A Deserified	U-A Early Shrub	ReplacementFire	0.0070		Yes	
Montane Riparian	U-A Deserified	U-A Early Shrub	Wild-Horse-Grazing	0.1000	0.0005	Yes	20
Montane Riparian	U-A Deserified	U-Indesd-EFT	Exotic-Invasion	0.0010		No	5
Montane Riparian	U-A Deserified	U-Insset	Flooding-20Yr	0.0330	0.0500	30	
Montane Riparian	U-A Deserified	U-A Shrb-Frb Encl	Small-Rock-Dam	0.0000		Yes	
Montane Riparian	U-A Early Shrub	A-Cottonwood Closed	Flooding-100Yr	0.0100	0.0001	Yes	
Montane Riparian	U-A Early Shrub	A-Willow Closed	Flooding-100Yr	0.0100	0.0099	Yes	
Montane Riparian	U-A Early Shrub	A-Willow Closed	Floodplan-Restoration	0.0000	0.9000	Yes	
Montane Riparian	U-A Early Shrub	U-A Early Shrub	Fence&Water-Delivery	0.0100		No	19
Montane Riparian	U-A Early Shrub	U-A Early Shrub	Flooding-100Yr	0.0100	0.9900	Yes	
Montane Riparian	U-A Early Shrub	U-A Early Shrub	Flooding-20Yr	0.0330	0.9500	30	
Montane Riparian	U-A Early Shrub	U-A Early Shrub	Floodplan-Restoration	0.0000	0.1000	Yes	
Montane Riparian	U-A Early Shrub	U-A Early Shrub	ReplacementFire	0.0070		Yes	
Montane Riparian	U-A Early Shrub	U-A Early Shrub	WeedInventorySpot-Treat	0.0100		No	3
Montane Riparian	U-A Early Shrub	U-Indesd-EFT	Exotic-Invasion	0.0010		No	5
Montane Riparian	U-A Early Shrub	U-Insset	Flooding-20Yr	0.0330	0.0500	30	
Montane Riparian	U-A Exotic Forb&Tree	A-Willow Closed	Exotic-Control	0.0100	0.6000	No	20
Montane Riparian	U-A Exotic Forb&Tree	U-A Exotic Forb&Tree	Early-Spring-Cattle-Grazing-byYr	0.1000		No	20
Montane Riparian	U-A Exotic Forb&Tree	U-A Exotic Forb&Tree	Exotic-Control	0.0100	0.4000	Yes	20
Montane Riparian	U-A Exotic Forb&Tree	U-A Exotic Forb&Tree	Fall-Cattle-Grazing-byYr	0.1000		No	20
Montane Riparian	U-A Exotic Forb&Tree	U-A Exotic Forb&Tree	Fall-Cattle-Grazing-byYr	0.1000		No	20
Montane Riparian	U-A Exotic Forb&Tree	U-A Exotic Forb&Tree	Fence&Water-Delivery	0.0100		No	19
Montane Riparian	U-A Exotic Forb&Tree	U-A Exotic Forb&Tree	FeralHorse-Grazing	0.1000		2	No
Montane Riparian	U-A Exotic Forb&Tree	U-A Exotic Forb&Tree	Late-Spring-Cattle-Grazing-byYr	0.1000		1	No
Montane Riparian	U-A Exotic Forb&Tree	U-A Exotic Forb&Tree	ReplacementFire	0.0070		Yes	
Montane Riparian	U-A Exotic Forb&Tree	U-A Exotic Forb&Tree	Summer-Cattle-Grazing-byYr	0.1000		No	20
Montane Riparian	U-A Exotic Forb&Tree	U-A Exotic Forb&Tree	Wild-Horse-Grazing	0.1000		2	No
Montane Riparian	U-A Hummoked	A-Willow Closed	NaturalRecovery	1.0000		Yes	5
Montane Riparian	U-A Hummoked	U-A Deserified	Early-Spring-Cattle-Grazing-byYr	0.1000	0.0005	Yes	20
Montane Riparian	U-A Hummoked	U-A Deserified	Fall-Cattle-Grazing-byYr	0.1000	0.0005	Yes	20
Montane Riparian	U-A Hummoked	U-A Deserified	FeralHorse-Grazing	0.1000	0.0010	Yes	20
Montane Riparian	U-A Hummoked	U-A Deserified	Late-Spring-Cattle-Grazing-byYr	0.1000	0.0010	Yes	20
Montane Riparian	U-A Hummoked	U-A Deserified	Summer-Cattle-Grazing-byYr	0.1000	0.0005	Yes	20
Montane Riparian	U-A Hummoked	U-A Deserified	Wild-Horse-Grazing	0.1000	0.0010	Yes	20
Montane Riparian	U-A Hummoked	U-A Exotic Forb&Tree	Exotic-Invasion	0.0010		No	

Montane Riparian	U-A Hummocked	U-A Hummocked	Early Spring-Cattle-Grazing-byYr	0.1000	0.9995		Yes	20
Montane Riparian	U-A Hummocked	U-A Hummocked	Fall-Cattle-Grazing-byYr	0.1000	0.9995		Yes	20
Montane Riparian	U-A Hummocked	U-A Hummocked	Fence&Water-Delivery	0.0100	0.9990		No	19
Montane Riparian	U-A Hummocked	U-A Hummocked	FeralHorse-Grazing	0.1000	0.9990		Yes	20
Montane Riparian	U-A Hummocked	U-A Hummocked	Late-Spring-Cattle-Grazing-byYr	0.1000	0.9990		Yes	20
Montane Riparian	U-A Hummocked	U-A Hummocked	Summer-Cattle-Grazing-byYr	0.1000	0.9995		Yes	20
Montane Riparian	U-A Inset-EFT	A-WillowClosed	Wild-Horse-Grazing	0.1000	0.9990		Yes	20
Montane Riparian	U-A Inset-EFT	A-WillowClosed	Flooding-100yr	0.0100	0.1000		Yes	20
Montane Riparian	U-A Inset-EFT	A-WillowClosed	Floodplain-Restoration	0.0000	0.9000		No	20
Montane Riparian	U-A Inset-EFT	U-A Desertified	Excite-Control	0.0100	0.6000		Yes	20
Montane Riparian	U-A Inset-EFT	U-A Inset-EFT	Early Spring-Cattle-Grazing-byYr	0.1000			No	20
Montane Riparian	U-A Inset-EFT	U-A Inset-EFT	Excite-Control	0.0100	0.4000		Yes	20
Montane Riparian	U-A Inset-EFT	U-A Inset-EFT	Fall-Cattle-Grazing-byYr	0.1000			No	20
Montane Riparian	U-A Inset-EFT	U-A Inset-EFT	Fence&Water-Delivery	0.0100			No	19
Montane Riparian	U-A Inset-EFT	U-A Inset-EFT	FeralHorse-Grazing	0.1000			No	20
Montane Riparian	U-A Inset-EFT	U-A Inset-EFT	Flooding-100yr	0.0100	0.9000		Yes	20
Montane Riparian	U-A Inset-EFT	U-A Inset-EFT	Flooding-30yr	0.0300	0.9500	30	No	20
Montane Riparian	U-A Inset-EFT	U-A Inset-EFT	Floodplain-Restoration	0.0000	0.1000		Yes	20
Montane Riparian	U-A Inset-EFT	U-A Inset-EFT	Late-Spring-Cattle-Grazing-byYr	0.1000			No	20
Montane Riparian	U-A Inset-EFT	U-A Inset-EFT	ReplacementFire	0.0070			Yes	20
Montane Riparian	U-A Inset-EFT	U-A Inset-EFT	Summer-Cattle-Grazing-byYr	0.1000			No	20
Montane Riparian	U-A Inset-EFT	U-A Inset-EFT	Wild-Horse-Grazing	0.1000			No	20
Montane Riparian	U-A Inset-EFT	U-A Inset	Flooding-30yr	0.0300	0.0250	30	Yes	20
Montane Riparian	U-A Inset-EFT	U-A Inset-EFT	Flooding-30yr	0.0300	0.0250	30	Yes	20
Montane Riparian	U-A Inset	U-A Inset	Early Spring-Cattle-Grazing-byYr	0.1000	0.9995		No	20
Montane Riparian	U-A Inset	U-A Inset	Fall-Cattle-Grazing-byYr	0.1000	0.9995		No	20
Montane Riparian	U-A Inset	U-A Inset	Fence&Water-Delivery	0.0100			No	19
Montane Riparian	U-A Inset	U-A Inset	FeralHorse-Grazing	0.1000	0.9990		Yes	20
Montane Riparian	U-A Inset	U-A Inset	Flooding-1Yr	0.2400			Yes	20
Montane Riparian	U-A Inset	U-A Inset	Late-Spring-Cattle-Grazing-byYr	0.1000	0.9990		Yes	20
Montane Riparian	U-A Inset	U-A Inset	ReplacementFire	0.0010			Yes	20
Montane Riparian	U-A Inset	U-A Inset	Summer-Cattle-Grazing-byYr	0.1000	0.9995		Yes	20
Montane Riparian	U-A Inset	U-A Inset	WeedInventorySpot-Treat	0.0100			No	3
Montane Riparian	U-A Inset	U-A Inset	Wild-Horse-Grazing	0.1000	0.9990		No	20
Montane Riparian	U-A Inset	U-A Inset	Excite-Invasion	0.0010			No	5
Montane Riparian	U-A Inset-EFT	U-A Inset-EFT	Early Spring-Cattle-Grazing-byYr	0.1000	0.0005		Yes	20
Montane Riparian	U-A Inset-EFT	U-A Inset-EFT	Fall-Cattle-Grazing-byYr	0.1000	0.0005		Yes	20
Montane Riparian	U-A Inset-EFT	U-A Inset-EFT	Fence&Water-Delivery	0.0100	0.0010		Yes	20
Montane Riparian	U-A Inset-EFT	U-A Inset-EFT	FeralHorse-Grazing	0.1000	0.0010		Yes	20
Montane Riparian	U-A Inset-EFT	U-A Inset-EFT	Late-Spring-Cattle-Grazing-byYr	0.1000	0.0010		Yes	20
Montane Riparian	U-A Inset-EFT	U-A Inset-EFT	Summer-Cattle-Grazing-byYr	0.1000	0.0005		Yes	20
Montane Riparian	U-A Inset-EFT	U-A Inset-EFT	Wild-Horse-Grazing	0.1000	0.0010		Yes	20
Montane Riparian	U-A Inset-EFT	U-A Inset-EFT	Excite-Control	0.0100	0.6000		No	20
Montane Riparian	U-A Inset-EFT	U-A Inset-EFT	Early Spring-Cattle-Grazing-byYr	0.1000			No	20
Montane Riparian	U-A Inset-EFT	U-A Inset-EFT	Excite-Control	0.0100	0.4000		Yes	20
Montane Riparian	U-A Inset-EFT	U-A Inset-EFT	Fall-Cattle-Grazing-byYr	0.1000			No	20
Montane Riparian	U-A Inset-EFT	U-A Inset-EFT	Fence&Water-Delivery	0.0100			No	20
Montane Riparian	U-A Inset-EFT	U-A Inset-EFT	FeralHorse-Grazing	0.1000			No	20
Montane Riparian	U-A Inset-EFT	U-A Inset-EFT	Late-Spring-Cattle-Grazing-byYr	0.1000			No	20
Montane Riparian	U-A Inset-EFT	U-A Inset-EFT	ReplacementFire	0.0010			Yes	20
Montane Riparian	U-A Inset-EFT	U-A Inset-EFT	Summer-Cattle-Grazing-byYr	0.1000			No	20
Montane Riparian	U-A Inset-EFT	U-A Inset-EFT	Wild-Horse-Grazing	0.1000			No	20
Montane Riparian	U-A Inset-HU	U-A Desertified	Flooding-100yr	0.0100			Yes	5
Montane Riparian	U-A Inset-HU	U-A Inset	NaturalRecovery	1.0000			Yes	5
Montane Riparian	U-A Inset-HU	U-A Inset-EFT	Excite-Invasion	0.0010			No	3
Montane Riparian	U-A Inset-HU	U-A Inset-HU	Early Spring-Cattle-Grazing-byYr	0.1000			Yes	20
Montane Riparian	U-A Inset-HU	U-A Inset-HU	Fall-Cattle-Grazing-byYr	0.1000			Yes	20
Montane Riparian	U-A Inset-HU	U-A Inset-HU	Fence&Water-Delivery	0.0100			No	19
Montane Riparian	U-A Inset-HU	U-A Inset-HU	FeralHorse-Grazing	0.1000			Yes	20
Montane Riparian	U-A Inset-HU	U-A Inset-HU	Flooding-20yr	0.0500			Yes	20
Montane Riparian	U-A Inset-HU	U-A Inset-HU	Late-Spring-Cattle-Grazing-byYr	0.1000			Yes	20
Montane Riparian	U-A Inset-HU	U-A Inset-HU	Summer-Cattle-Grazing-byYr	0.1000			Yes	20
Montane Riparian	U-A Inset-HU	U-A Inset-HU	Wild-Horse-Grazing	0.1000			Yes	20
Montane Riparian	U-A Inset-SFE	U-A Inset-EFT	Excite-Invasion	0.0010			Yes	5
Montane Riparian	U-A Inset-SFE	U-A Inset-HU	Early Spring-Cattle-Grazing-byYr	0.1000	0.0005		Yes	20
Montane Riparian	U-A Inset-SFE	U-A Inset-HU	Fall-Cattle-Grazing-byYr	0.1000	0.0005		Yes	20
Montane Riparian	U-A Inset-SFE	U-A Inset-HU	FeralHorse-Grazing	0.1000	0.0001		Yes	20
Montane Riparian	U-A Inset-SFE	U-A Inset-HU	Late-Spring-Cattle-Grazing-byYr	0.1000	0.0010		Yes	20
Montane Riparian	U-A Inset-SFE	U-A Inset-HU	Summer-Cattle-Grazing-byYr	0.1000	0.0005		Yes	20
Montane Riparian	U-A Inset-SFE	U-A Inset-HU	Wild-Horse-Grazing	0.1000	0.0010		Yes	20
Montane Riparian	U-A Inset-SFE	U-A Inset-SFE	Early Spring-Cattle-Grazing-byYr	0.1000	0.9995		No	20
Montane Riparian	U-A Inset-SFE	U-A Inset-SFE	Fall-Cattle-Grazing-byYr	0.1000	0.9995		No	20
Montane Riparian	U-A Inset-SFE	U-A Inset-SFE	Fence&Water-Delivery	0.0100			No	19
Montane Riparian	U-A Inset-SFE	U-A Inset-SFE	FeralHorse-Grazing	0.1000	0.9990		No	20
Montane Riparian	U-A Inset-SFE	U-A Inset-SFE	Flooding-20yr	0.0500			Yes	20
Montane Riparian	U-A Inset-SFE	U-A Inset-SFE	Late-Spring-Cattle-Grazing-byYr	0.1000	0.9990		No	20
Montane Riparian	U-A Inset-SFE	U-A Inset-SFE	ReplacementFire	0.0010			Yes	20
Montane Riparian	U-A Inset-SFE	U-A Inset-SFE	Summer-Cattle-Grazing-byYr	0.1000	0.9995		No	20
Montane Riparian	U-A Inset-SFE	U-A Inset-SFE	WeedInventorySpot-Treat	0.0100			No	3
Montane Riparian	U-A Inset-SFE	U-A Inset-SFE	Wild-Horse-Grazing	0.1000	0.9990		No	20
Montane Riparian	U-A Pasture	U-A Exotic Forb&Tree	Excite-Invasion	0.0010			No	5
Montane Riparian	U-A Pasture	U-A Pasture	Early Spring-Cattle-Grazing-byYr	0.1000			No	20
Montane Riparian	U-A Pasture	U-A Pasture	Fall-Cattle-Grazing-byYr	0.1000			No	20
Montane Riparian	U-A Pasture	U-A Pasture	FeralHorse-Grazing	0.1000			2	No
Montane Riparian	U-A Pasture	U-A Pasture	Late-Spring-Cattle-Grazing-byYr	0.1000			1	No
Montane Riparian	U-A Pasture	U-A Pasture	Summer-Cattle-Grazing-byYr	0.1000			No	20
Montane Riparian	U-A Pasture	U-A Pasture	Wild-Horse-Grazing	0.1000			2	No
Montane Riparian	U-A Shrb-Frb Encr	U-A Desertified	Early Spring-Cattle-Grazing-byYr	0.1000	0.0005		Yes	20
Montane Riparian	U-A Shrb-Frb Encr	U-A Desertified	Fall-Cattle-Grazing-byYr	0.1000	0.0005		Yes	20
Montane Riparian	U-A Shrb-Frb Encr	U-A Desertified	FeralHorse-Grazing	0.1000	0.0005		Yes	20
Montane Riparian	U-A Shrb-Frb Encr	U-A Desertified	Late-Spring-Cattle-Grazing-byYr	0.1000	0.0010		Yes	20
Montane Riparian	U-A Shrb-Frb Encr	U-A Desertified	Summer-Cattle-Grazing-byYr	0.1000	0.0005		Yes	20
Montane Riparian	U-A Shrb-Frb Encr	U-A Desertified	Wild-Horse-Grazing	0.1000	0.0010		Yes	20
Montane Riparian	U-A Shrb-Frb Encr	U-A Exotic Forb&Tree	Excite-Invasion	0.0010			Yes	5
Montane Riparian	U-A Shrb-Frb Encr	U-A Shrb-Frb Encr	Early Spring-Cattle-Grazing-byYr	0.1000	0.9995		No	20
Montane Riparian	U-A Shrb-Frb Encr	U-A Shrb-Frb Encr	Fall-Cattle-Grazing-byYr	0.1000	0.9995		No	20
Montane Riparian	U-A Shrb-Frb Encr	U-A Shrb-Frb Encr	Fence&Water-Delivery	0.0100			No	19
Montane Riparian	U-A Shrb-Frb Encr	U-A Shrb-Frb Encr	FeralHorse-Grazing	0.1000	0.9990		No	20
Montane Riparian	U-A Shrb-Frb Encr	U-A Shrb-Frb Encr	Flooding-20yr	0.0500			Yes	20
Montane Riparian	U-A Shrb-Frb Encr	U-A Shrb-Frb Encr	Late-Spring-Cattle-Grazing-byYr	0.1000	0.9990		No	20
Montane Riparian	U-A Shrb-Frb Encr	U-A Shrb-Frb Encr	ReplacementFire	0.0070			Yes	20
Montane Riparian	U-A Shrb-Frb Encr	U-A Shrb-Frb Encr	Summer-Cattle-Grazing-byYr	0.1000	0.9995		No	20
Montane Riparian	U-A Shrb-Frb Encr	U-A Shrb-Frb Encr	WeedInventorySpot-Treat	0.0100			No	3
Montane Riparian	U-A Shrb-Frb Encr	U-A Shrb-Frb Encr	Wild-Horse-Grazing	0.1000	0.9990		No	20
Montane Riparian	U-A SI	A-Cottonwood/Closed	Flooding-100yr	0.0100	0.0001		Yes	20
Montane Riparian	U-A SI	A-WillowClosed	Flooding-100yr	0.0100	0.0099		Yes	20
Montane Riparian	U-A SI	U-A Inset-EFT	Excite-Invasion	0.0010			No	5
Montane Riparian	U-A SI	U-A Inset	Flooding-30yr	0.0300	0.0500	30	Yes	20
Montane Riparian	U-A SI	U-A SI	Early Spring-Cattle-Grazing-byYr	0.1000			No	20
Montane Riparian	U-A SI	U-A SI	Fall-Cattle-Grazing-byYr	0.1000			No	20
Montane Riparian	U-A SI	U-A SI	Fence&Water-Delivery	0.0000			No	19
Montane Riparian	U-A SI	U-A SI	FeralHorse-Grazing	0.1000			2	No
Montane Riparian	U-A SI	U-A SI	Flooding-100yr	0.0100	0.9900		Yes	20
Montane Riparian	U-A SI	U-A SI	Flooding-30yr	0.0300	0.9500	30	No	20
Montane Riparian	U-A SI	U-A SI	Late-Spring-Cattle-Grazing-byYr	0.1000			1	No
Montane Riparian	U-A SI	U-A SI	ReplacementFire	0.0010			Yes	20
Montane Riparian	U-A SI	U-A SI	Summer-Cattle-Grazing-byYr	0.1000			No	20
Montane Riparian	U-A SI	U-A SI	WeedInventorySpot-Treat	0.0100			No	3
Montane Riparian	U-A SI	U-A SI	Wild-Horse-Grazing	0.1000			2	No
Montane Riparian	U-A SI	U-A SI	Excite-Invasion	0.0010			No	5

Montane Riparian	U-A-SI	U-A-SHAS	AS-Invasion	0.0010		No	
Montane Riparian	U-A-SHAS	A-Cottonwood/Closed	Flooding-100yr	0.0100	0.0001	Yes	
Montane Riparian	U-A-SHAS	A-Willow Closed	Flooding-100yr	0.0100	0.0099	Yes	
Montane Riparian	U-A-SHAS	U-A-Exotic Forb&Tree	Exotic-Invasion	0.0010		No	5
Montane Riparian	U-A-SHAS	U-A-Inset	Flooding-30yr	0.0330	0.9500	Yes	
Montane Riparian	U-A-SHAS	U-A-SI	Competition	0.3300		No	3
Montane Riparian	U-A-SHAS	U-A-SI	Herbicide-PlateauSeed	0.0000	0.8000	No	
Montane Riparian	U-A-SHAS	U-A-SHAS	EarlySpring-Cattle-Grazing-byYr	0.1000		No	20
Montane Riparian	U-A-SHAS	U-A-SHAS	Fall-Cattle-Grazing-byYr	0.1000		No	20
Montane Riparian	U-A-SHAS	U-A-SHAS	Fence&Water-Delivery	0.0000		No	19
Montane Riparian	U-A-SHAS	U-A-SHAS	FeralHorse-Grazing	0.1000		2	No
Montane Riparian	U-A-SHAS	U-A-SHAS	Flooding-100yr	0.0100	0.9900	No	
Montane Riparian	U-A-SHAS	U-A-SHAS	Flooding-30yr	0.0330	0.9500	No	20
Montane Riparian	U-A-SHAS	U-A-SHAS	Herbicide-PlateauSeed	0.0000	0.2000	No	
Montane Riparian	U-A-SHAS	U-A-SHAS	Late-Spring-Cattle-Grazing-byYr	0.1000		1	No
Montane Riparian	U-A-SHAS	U-A-SHAS	Summer-Cattle-Grazing-byYr	0.1000		No	20
Montane Riparian	U-A-SHAS	U-A-SHAS	WeedInventorySpot-Treat	0.0100		No	3
Montane Riparian	U-A-SHAS	U-A-SHAS	Web-Year	0.0670		No	
Montane Riparian	U-A-SHAS	U-A-SHAS	Wild-Horse-Grazing	0.1000		2	No
Montane Riparian	U-A-SHAS	U-C-SHAS	ReplacementFire	0.0020		Yes	5
Montane Riparian	U-B-Desertified	A-Willow Closed	Flooding-100yr	0.0100	0.0100	Yes	
Montane Riparian	U-B-Desertified	A-Willow Closed	Floodplain-Restoration	0.0000	0.9000	Yes	
Montane Riparian	U-B-Desertified	U-A-Desertified	EarlySpring-Cattle-Grazing-byYr	0.1000	0.0005	Yes	20
Montane Riparian	U-B-Desertified	U-A-Desertified	Fall-Cattle-Grazing-byYr	0.1000	0.0005	Yes	20
Montane Riparian	U-B-Desertified	U-A-Desertified	FeralHorse-Grazing	0.1000	0.0005	Yes	20
Montane Riparian	U-B-Desertified	U-A-Desertified	Late-Spring-Cattle-Grazing-byYr	0.1000	0.0005	Yes	20
Montane Riparian	U-B-Desertified	U-A-Desertified	Summer-Cattle-Grazing-byYr	0.1000	0.0005	Yes	20
Montane Riparian	U-B-Desertified	U-A-Desertified	Wild-Horse-Grazing	0.1000	0.0005	Yes	20
Montane Riparian	U-B-Desertified	U-A-Inset	Flooding-30yr	0.0330	0.9500	30	No
Montane Riparian	U-B-Desertified	U-B-Desertified	EarlySpring-Cattle-Grazing-byYr	0.1000	0.9995	No	20
Montane Riparian	U-B-Desertified	U-B-Desertified	Fall-Cattle-Grazing-byYr	0.1000	0.9995	No	20
Montane Riparian	U-B-Desertified	U-B-Desertified	Fence&Water-Delivery	0.0100		No	19
Montane Riparian	U-B-Desertified	U-B-Desertified	FeralHorse-Grazing	0.1000	0.9990	2	No
Montane Riparian	U-B-Desertified	U-B-Desertified	Flooding-100yr	0.0100	0.9900	No	
Montane Riparian	U-B-Desertified	U-B-Desertified	Flooding-30yr	0.0330	0.9500	30	No
Montane Riparian	U-B-Desertified	U-B-Desertified	Floodplain-Restoration	0.0000	0.1000	Yes	
Montane Riparian	U-B-Desertified	U-B-Desertified	Late-Spring-Cattle-Grazing-byYr	0.1000	0.9990	1	No
Montane Riparian	U-B-Desertified	U-B-Desertified	Summer-Cattle-Grazing-byYr	0.1000	0.9995	No	20
Montane Riparian	U-B-Desertified	U-B-Desertified	WeedInventorySpot-Treat	0.0100		No	3
Montane Riparian	U-B-Desertified	U-B-Desertified	Wild-Horse-Grazing	0.1000	0.9990	2	No
Montane Riparian	U-B-Desertified	U-B-Desertified	FeralHorse-Grazing	0.1000	0.0005	Yes	20
Montane Riparian	U-B-Desertified	U-B-Desertified	Late-Spring-Cattle-Grazing-byYr	0.1000	0.0005	Yes	20
Montane Riparian	U-B-Desertified	U-B-Desertified	ReplacementFire	0.0070		Yes	20
Montane Riparian	U-B-Desertified	U-B-Desertified	Wild-Horse-Grazing	0.1000	0.0005	Yes	20
Montane Riparian	U-B-Desertified-EFT	U-B-Desertified-EFT	Exotic-Invasion	0.0010		No	5
Montane Riparian	U-B-Desertified-EFT	U-B-SAR	AS-Invasion	0.0500		No	
Montane Riparian	U-B-Desertified-EFT	U-B-Shrb-Fib Encr	Small-Rock-Dam	0.0000		Yes	
Montane Riparian	U-B-EarlyShrub	A-Cottonwood/Closed	Flooding-100yr	0.0100	0.0001	Yes	
Montane Riparian	U-B-EarlyShrub	A-Willow Closed	Flooding-100yr	0.0100	0.0099	Yes	
Montane Riparian	U-B-EarlyShrub	A-Willow Closed	Floodplain-Restoration	0.0000	0.9000	Yes	
Montane Riparian	U-B-EarlyShrub	U-A-EarlyShrub	Flooding-100yr	0.0100	0.9900	Yes	
Montane Riparian	U-B-EarlyShrub	U-A-EarlyShrub	Floodplain-Restoration	0.0000	0.1000	Yes	
Montane Riparian	U-B-EarlyShrub	U-A-EarlyShrub	ReplacementFire	0.0070		Yes	
Montane Riparian	U-B-EarlyShrub	U-A-Inset	Flooding-30yr	0.0330	0.9500	30	Yes
Montane Riparian	U-B-EarlyShrub	U-B-EarlyShrub	Fence&Water-Delivery	0.0100		No	19
Montane Riparian	U-B-EarlyShrub	U-B-EarlyShrub	Flooding-30yr	0.0330	0.9500	30	No
Montane Riparian	U-B-EarlyShrub	U-B-EarlyShrub	WeedInventorySpot-Treat	0.0100		No	3
Montane Riparian	U-B-Exotic Forb&Tree	U-B-Exotic Forb&Tree	Exotic-Invasion	0.0010		No	5
Montane Riparian	U-B-Exotic Forb&Tree	B-Willow Closed	Exotic-Control	0.0100	0.6000	No	20
Montane Riparian	U-B-Exotic Forb&Tree	U-B-Exotic Forb&Tree	Exotic-Control	0.0010	0.4000	Yes	20
Montane Riparian	U-B-Exotic Forb&Tree	U-B-Exotic Forb&Tree	Flooding-100yr	0.0100		4	Yes
Montane Riparian	U-B-Exotic Forb&Tree	U-B-Exotic Forb&Tree	Flooding-30yr	0.0330		4	Yes
Montane Riparian	U-B-Exotic Forb&Tree	U-A-Exotic Forb&Tree	ReplacementFire	0.0070		Yes	
Montane Riparian	U-B-Exotic Forb&Tree	U-B-Exotic Forb&Tree	EarlySpring-Cattle-Grazing-byYr	0.1000		No	20
Montane Riparian	U-B-Exotic Forb&Tree	U-B-Exotic Forb&Tree	Fall-Cattle-Grazing-byYr	0.1000		No	20
Montane Riparian	U-B-Exotic Forb&Tree	U-B-Exotic Forb&Tree	Fence&Water-Delivery	0.0100		No	20
Montane Riparian	U-B-Exotic Forb&Tree	U-B-Exotic Forb&Tree	FeralHorse-Grazing	0.1000		No	20
Montane Riparian	U-B-Exotic Forb&Tree	U-B-Exotic Forb&Tree	Late-Spring-Cattle-Grazing-byYr	0.1000		No	20
Montane Riparian	U-B-Exotic Forb&Tree	U-B-Exotic Forb&Tree	Summer-Cattle-Grazing-byYr	0.1000		No	20
Montane Riparian	U-B-Exotic Forb&Tree	U-B-Exotic Forb&Tree	Wild-Horse-Grazing	0.1000		No	20
Montane Riparian	U-B-Insect-EFT	A-Willow Closed	Flooding-100yr	0.0100	0.0099	Yes	
Montane Riparian	U-B-Insect-EFT	A-Willow Closed	Floodplain-Restoration	0.0000	0.9000	Yes	
Montane Riparian	U-B-Insect-EFT	U-A-Insect-EFT	Exotic-Control	0.0100	0.4000	Yes	20
Montane Riparian	U-B-Insect-EFT	U-A-Insect-EFT	Flooding-100yr	0.0100	0.9900	Yes	
Montane Riparian	U-B-Insect-EFT	U-A-Insect-EFT	Floodplain-Restoration	0.0000	0.1000	Yes	
Montane Riparian	U-B-Insect-EFT	U-A-Insect-EFT	ReplacementFire	0.0070		Yes	
Montane Riparian	U-B-Insect-EFT	U-A-Inset	Flooding-30yr	0.0330	0.9500	30	Yes
Montane Riparian	U-B-Insect-EFT	U-B-Desertified	Exotic-Control	0.0100	0.6000	Yes	20
Montane Riparian	U-B-Insect-EFT	U-B-Insect-EFT	EarlySpring-Cattle-Grazing-byYr	0.1000		No	20
Montane Riparian	U-B-Insect-EFT	U-B-Insect-EFT	Fall-Cattle-Grazing-byYr	0.1000		No	20
Montane Riparian	U-B-Insect-EFT	U-B-Insect-EFT	Fence&Water-Delivery	0.0100		No	19
Montane Riparian	U-B-Insect-EFT	U-B-Insect-EFT	FeralHorse-Grazing	0.1000		2	No
Montane Riparian	U-B-Insect-EFT	U-B-Insect-EFT	Flooding-30yr	0.0330	0.9500	30	No
Montane Riparian	U-B-Insect-EFT	U-B-Insect-EFT	Late-Spring-Cattle-Grazing-byYr	0.1000		1	No
Montane Riparian	U-B-Insect-EFT	U-B-Insect-EFT	Summer-Cattle-Grazing-byYr	0.1000		No	20
Montane Riparian	U-B-Insect-EFT	U-B-Insect-EFT	Wild-Horse-Grazing	0.1000		2	No
Montane Riparian	U-B-Inset	U-A-Inset	Flooding-100yr	0.0100		Yes	
Montane Riparian	U-B-Inset	U-A-Inset	Flooding-30yr	0.0330		19	4
Montane Riparian	U-B-Inset	U-A-Inset	ReplacementFire	0.0010		Yes	
Montane Riparian	U-B-Inset	U-B-Inset	EarlySpring-Cattle-Grazing-byYr	0.1000	0.9995	No	20
Montane Riparian	U-B-Inset	U-B-Inset	Fall-Cattle-Grazing-byYr	0.1000	0.9995	No	20
Montane Riparian	U-B-Inset	U-B-Inset	Fence&Water-Delivery	0.0100		No	19
Montane Riparian	U-B-Inset	U-B-Inset	FeralHorse-Grazing	0.1000	0.9990	No	20
Montane Riparian	U-B-Inset	U-B-Inset	Late-Spring-Cattle-Grazing-byYr	0.1000	0.9990	No	20
Montane Riparian	U-B-Inset	U-B-Inset	Summer-Cattle-Grazing-byYr	0.1000	0.9995	No	20
Montane Riparian	U-B-Inset	U-B-Inset	WeedInventorySpot-Treat	0.0100		No	3
Montane Riparian	U-B-Inset	U-B-Inset	Wild-Horse-Grazing	0.1000	0.9990	No	20
Montane Riparian	U-B-Inset-EFT	U-B-Inset-EFT	Exotic-Invasion	0.0010		No	5
Montane Riparian	U-B-Inset-EFT	U-B-Inset-SFE	EarlySpring-Cattle-Grazing-byYr	0.1000	0.0005	Yes	20
Montane Riparian	U-B-Inset-EFT	U-B-Inset-SFE	Fall-Cattle-Grazing-byYr	0.1000	0.0005	Yes	20
Montane Riparian	U-B-Inset-EFT	U-B-Inset-SFE	FeralHorse-Grazing	0.1000	0.0010	No	20
Montane Riparian	U-B-Inset-EFT	U-B-Inset-SFE	Late-Spring-Cattle-Grazing-byYr	0.1000	0.0010	Yes	20
Montane Riparian	U-B-Inset-EFT	U-B-Inset-SFE	Summer-Cattle-Grazing-byYr	0.1000	0.0005	Yes	20
Montane Riparian	U-B-Inset-EFT	U-B-Inset-SFE	Wild-Horse-Grazing	0.1000	0.0010	No	20
Montane Riparian	U-B-Inset-EFT	U-A-Inset-EFT	Exotic-Control	0.0100	0.4000	Yes	20
Montane Riparian	U-B-Inset-EFT	U-A-Inset-EFT	ReplacementFire	0.0010		Yes	
Montane Riparian	U-B-Inset-EFT	U-B-Inset	Exotic-Control	0.0100	0.6000	Yes	20
Montane Riparian	U-B-Inset-EFT	U-B-Inset-EFT	EarlySpring-Cattle-Grazing-byYr	0.1000		No	20
Montane Riparian	U-B-Inset-EFT	U-B-Inset-EFT	Fall-Cattle-Grazing-byYr	0.1000		No	20
Montane Riparian	U-B-Inset-EFT	U-B-Inset-EFT	Fence&Water-Delivery	0.0100		No	19
Montane Riparian	U-B-Inset-EFT	U-B-Inset-EFT	FeralHorse-Grazing	0.1000		No	20
Montane Riparian	U-B-Inset-EFT	U-B-Inset-EFT	Late-Spring-Cattle-Grazing-byYr	0.1000		No	20
Montane Riparian	U-B-Inset-EFT	U-B-Inset-EFT	Summer-Cattle-Grazing-byYr	0.1000		No	20
Montane Riparian	U-B-Inset-EFT	U-B-Inset-EFT	Wild-Horse-Grazing	0.1000		No	20
Montane Riparian	U-B-Inset-SFE	U-A-Inset-SFE	Flooding-100yr	0.0100		Yes	
Montane Riparian	U-B-Inset-SFE	U-A-Inset-SFE	Flooding-30yr	0.0330		19	4
Montane Riparian	U-B-Inset-SFE	U-A-Inset-SFE	ReplacementFire	0.0070		Yes	
Montane Riparian	U-B-Inset-SFE	U-B-Inset-EFT	Exotic-Invasion	0.0010		Yes	5

Montane Riparian	U-B Inset-SFE	U-B Inset-SFE	Early Spring-Cattle-Grazing-byYr	0.1000		No	20
Montane Riparian	U-B Inset-SFE	U-B Inset-SFE	Fall-Cattle-Grazing-byYr	0.1000		No	20
Montane Riparian	U-B Inset-SFE	U-B Inset-SFE	Fence&Water-Delivery	0.1000		No	19
Montane Riparian	U-B Inset-SFE	U-B Inset-SFE	FeralHorse-Grazing	0.1000		No	20
Montane Riparian	U-B Inset-SFE	U-B Inset-SFE	Late-Spring-Cattle-Grazing-byYr	0.1000		No	20
Montane Riparian	U-B Inset-SFE	U-B Inset-SFE	Summer-Cattle-Grazing-byYr	0.1000		No	20
Montane Riparian	U-B Inset-SFE	U-B Inset-SFE	WeedInventorySpot-Treat	0.0100		No	3
Montane Riparian	U-B Inset-SFE	U-B Inset-SFE	Wild-Horse-Grazing	0.1000		No	20
Montane Riparian	U-B SAP	A-Cottonwood Closed	Flooding-100Yr	0.0100	0.0001	Yes	
Montane Riparian	U-B SAP	A-Willow Closed	Flooding-100Yr	0.0100	0.0099	Yes	
Montane Riparian	U-B SAP	A-Willow Closed	Floodplan-Restoration	0.0000	0.9000	Yes	
Montane Riparian	U-B SAP	U-A Annual Spp	Early Spring-Cattle-Grazing-byYr	0.1000	0.0005	Yes	20
Montane Riparian	U-B SAP	U-A Annual Spp	Fall-Cattle-Grazing-byYr	0.1000	0.0005	Yes	20
Montane Riparian	U-B SAP	U-A Annual Spp	FeralHorse-Grazing	0.1000	0.0010	Yes	20
Montane Riparian	U-B SAP	U-A Annual Spp	Late-Spring-Cattle-Grazing-byYr	0.1000	0.0010	Yes	20
Montane Riparian	U-B SAP	U-A Annual Spp	ReplacementFire	0.0070		Yes	1
Montane Riparian	U-B SAP	U-A Annual Spp	Small-Rock-Dam	0.0000		Yes	
Montane Riparian	U-B SAP	U-A Annual Spp	Summer-Cattle-Grazing-byYr	0.1000	0.0005	Yes	20
Montane Riparian	U-B SAP	U-A Annual Spp	Wild-Horse-Grazing	0.1000	0.0010	Yes	20
Montane Riparian	U-B SAP	U-A Inset	Flooding-30Yr	0.0330	0.9500	30	Yes
Montane Riparian	U-B SAP	U-B Insect-EFT	Exotic-Invasion	0.0010		No	5
Montane Riparian	U-B SAP	U-B SAP	Early Spring-Cattle-Grazing-byYr	0.1000	0.9995	No	20
Montane Riparian	U-B SAP	U-B SAP	Fall-Cattle-Grazing-byYr	0.1000	0.9995	No	20
Montane Riparian	U-B SAP	U-B SAP	Fence&Water-Delivery	0.0100		No	19
Montane Riparian	U-B SAP	U-B SAP	FeralHorse-Grazing	0.1000	0.9990	2 No	20
Montane Riparian	U-B SAP	U-B SAP	Flooding-100Yr	0.0100	0.9900	Yes	
Montane Riparian	U-B SAP	U-B SAP	Flooding-30Yr	0.0330	0.9500	30	No
Montane Riparian	U-B SAP	U-B SAP	Floodplan-Restoration	0.0000	0.1000	Yes	
Montane Riparian	U-B SAP	U-B SAP	Late-Spring-Cattle-Grazing-byYr	0.1000	0.9990	1 No	20
Montane Riparian	U-B SAP	U-B SAP	Summer-Cattle-Grazing-byYr	0.1000	0.9995	No	20
Montane Riparian	U-B SAP	U-B SAP	Wild-Horse-Grazing	0.1000	0.9990	2 No	20
Montane Riparian	U-B Shrb-Frb Encr	U-A Annual Spp	Flooding-100Yr	0.0100		20	Yes
Montane Riparian	U-B Shrb-Frb Encr	U-A Annual Spp	Flooding-30Yr	0.0500		19	4 Yes
Montane Riparian	U-B Shrb-Frb Encr	U-A Annual Spp	ReplacementFire	0.0070			
Montane Riparian	U-B Shrb-Frb Encr	U-B Desertified	Early Spring-Cattle-Grazing-byYr	0.1000	0.0005	Yes	20
Montane Riparian	U-B Shrb-Frb Encr	U-B Desertified	Fall-Cattle-Grazing-byYr	0.1000	0.0005	Yes	20
Montane Riparian	U-B Shrb-Frb Encr	U-B Desertified	FeralHorse-Grazing	0.1000	0.0010	Yes	20
Montane Riparian	U-B Shrb-Frb Encr	U-B Desertified	Late-Spring-Cattle-Grazing-byYr	0.0010		Yes	
Montane Riparian	U-B Shrb-Frb Encr	U-B Desertified	Summer-Cattle-Grazing-byYr	0.1000	0.0005	Yes	20
Montane Riparian	U-B Shrb-Frb Encr	U-B Desertified	Wild-Horse-Grazing	0.1000	0.0010	Yes	20
Montane Riparian	U-B Shrb-Frb Encr	U-B Exotic Forb&Tree	Exotic-Invasion	0.0010		Yes	5
Montane Riparian	U-B Shrb-Frb Encr	U-B Shrb-Frb Encr	Early Spring-Cattle-Grazing-byYr	0.1000	0.9995	No	20
Montane Riparian	U-B Shrb-Frb Encr	U-B Shrb-Frb Encr	Fall-Cattle-Grazing-byYr	0.1000	0.9995	No	20
Montane Riparian	U-B Shrb-Frb Encr	U-B Shrb-Frb Encr	Fence&Water-Delivery	0.0100		No	19
Montane Riparian	U-B Shrb-Frb Encr	U-B Shrb-Frb Encr	FeralHorse-Grazing	0.1000	0.9990	No	20
Montane Riparian	U-B Shrb-Frb Encr	U-B Shrb-Frb Encr	Late-Spring-Cattle-Grazing-byYr	0.1000	0.9990	No	19
Montane Riparian	U-B Shrb-Frb Encr	U-B Shrb-Frb Encr	Summer-Cattle-Grazing-byYr	0.1000	0.9995	No	20
Montane Riparian	U-B Shrb-Frb Encr	U-B Shrb-Frb Encr	WeedInventorySpot-Treat	0.0100		No	3
Montane Riparian	U-B Shrb-Frb Encr	U-B Shrb-Frb Encr	Wild-Horse-Grazing	0.1000	0.9990	No	20
Montane Riparian	U-B SI	A-Cottonwood Closed	Flooding-100Yr	0.0100	0.0001	Yes	
Montane Riparian	U-B SI	A-Willow Closed	Flooding-100Yr	0.0100	0.0099	Yes	
Montane Riparian	U-B SI	U-A Inset	Flooding-30Yr	0.0330	0.9500	30	Yes
Montane Riparian	U-B SI	U-A SI	ReplacementFire	0.0070		Yes	
Montane Riparian	U-B SI	U-B Desertified	NatralRecovery	0.0010		No	10
Montane Riparian	U-B SI	U-B Insect-EFT	Exotic-Invasion	0.0010		No	5
Montane Riparian	U-B SI	U-B SI	Early Spring-Cattle-Grazing-byYr	0.1000		No	20
Montane Riparian	U-B SI	U-B SI	Fall-Cattle-Grazing-byYr	0.1000		No	20
Montane Riparian	U-B SI	U-B SI	Fence&Water-Delivery	0.0100		No	19
Montane Riparian	U-B SI	U-B SI	FeralHorse-Grazing	0.1000		2 No	20
Montane Riparian	U-B SI	U-B SI	Flooding-100Yr	0.0100	0.9900	No	
Montane Riparian	U-B SI	U-B SI	Flooding-30Yr	0.0330	0.9500	30	No
Montane Riparian	U-B SI	U-B SI	Late-Spring-Cattle-Grazing-byYr	0.1000		No	20
Montane Riparian	U-B SI	U-B SI	Summer-Cattle-Grazing-byYr	0.1000		No	20
Montane Riparian	U-B SI	U-B SI	WeedInventorySpot-Treat	0.0100		No	3
Montane Riparian	U-B SI	U-B SI	Wild-Horse-Grazing	0.1000		2 No	20
Montane Riparian	U-B SI	U-B SI	AS-Invasion	0.0010		No	
Montane Riparian	U-B SHAS	A-Cottonwood Closed	Flooding-100Yr	0.0100	0.0001	Yes	
Montane Riparian	U-B SHAS	A-Willow Closed	Flooding-100Yr	0.0100	0.0099	Yes	
Montane Riparian	U-B SHAS	U-A Inset	Flooding-30Yr	0.0330	0.9500	30	Yes
Montane Riparian	U-B SHAS	U-A SHAS	ReplacementFire	0.0070		Yes	5
Montane Riparian	U-B SHAS	U-B Exotic Forb&Tree	Exotic-Invasion	0.0010		No	5
Montane Riparian	U-B SHAS	U-B SI	Competition	0.3300		No	3
Montane Riparian	U-B SHAS	U-B SHAS	Early Spring-Cattle-Grazing-byYr	0.1000		No	20
Montane Riparian	U-B SHAS	U-B SHAS	Fall-Cattle-Grazing-byYr	0.1000		No	20
Montane Riparian	U-B SHAS	U-B SHAS	Fence&Water-Delivery	0.0100		No	19
Montane Riparian	U-B SHAS	U-B SHAS	FeralHorse-Grazing	0.1000		2 No	20
Montane Riparian	U-B SHAS	U-B SHAS	Flooding-100Yr	0.0100	0.9900	No	
Montane Riparian	U-B SHAS	U-B SHAS	Flooding-30Yr	0.0330	0.9500	30	No
Montane Riparian	U-B SHAS	U-B SHAS	Late-Spring-Cattle-Grazing-byYr	0.1000		1 No	20
Montane Riparian	U-B SHAS	U-B SHAS	Summer-Cattle-Grazing-byYr	0.1000		No	20
Montane Riparian	U-B SHAS	U-B SHAS	WeedInventorySpot-Treat	0.0100		No	3
Montane Riparian	U-B SHAS	U-B SHAS	Wet-Year	0.0670		No	
Montane Riparian	U-B SHAS	U-B SHAS	Wild-Horse-Grazing	0.1000		2 No	20
Montane Riparian	U-C Desertified	A-Willow Closed	Flooding-100Yr	0.0100	0.0001	Yes	
Montane Riparian	U-C Desertified	A-Willow Closed	Floodplan-Restoration	0.0000	0.9000	Yes	
Montane Riparian	U-C Desertified	U-A Desertified	Early Spring-Cattle-Grazing-byYr	0.1000	0.0005	Yes	20
Montane Riparian	U-C Desertified	U-A Desertified	Fall-Cattle-Grazing-byYr	0.1000	0.0005	Yes	20
Montane Riparian	U-C Desertified	U-A Desertified	FeralHorse-Grazing	0.1000	0.0005	Yes	20
Montane Riparian	U-C Desertified	U-A Desertified	Summer-Cattle-Grazing-byYr	0.1000	0.0005	Yes	20
Montane Riparian	U-C Desertified	U-A Desertified	Wild-Horse-Grazing	0.1000	0.0005	Yes	20
Montane Riparian	U-C Desertified	U-A Early Shrub	ReplacementFire	0.0070		Yes	
Montane Riparian	U-C Desertified	U-A Inset	Flooding-30Yr	0.0330	0.9500	30	No
Montane Riparian	U-C Desertified	U-B Shrb-Frb Encr	Small-Rock-Dam	0.0000		Yes	
Montane Riparian	U-C Desertified	U-C Desertified	Early Spring-Cattle-Grazing-byYr	0.1000	0.9995	No	20
Montane Riparian	U-C Desertified	U-C Desertified	Fall-Cattle-Grazing-byYr	0.1000	0.9995	No	20
Montane Riparian	U-C Desertified	U-C Desertified	Fence&Water-Delivery	0.0100		No	19
Montane Riparian	U-C Desertified	U-C Desertified	FeralHorse-Grazing	0.1000	0.9990	2 No	20
Montane Riparian	U-C Desertified	U-C Desertified	Flooding-100Yr	0.0100	0.0099	Yes	
Montane Riparian	U-C Desertified	U-C Desertified	Flooding-30Yr	0.0330	0.9500	30	No
Montane Riparian	U-C Desertified	U-C Desertified	Floodplan-Restoration	0.0000	0.1000	Yes	
Montane Riparian	U-C Desertified	U-C Desertified	Late-Spring-Cattle-Grazing-byYr	0.1000	0.9990	1 No	20
Montane Riparian	U-C Desertified	U-C Desertified	Summer-Cattle-Grazing-byYr	0.1000	0.9995	No	20
Montane Riparian	U-C Desertified	U-C Desertified	WeedInventorySpot-Treat	0.0100		No	3
Montane Riparian	U-C Desertified	U-C Desertified	Wild-Horse-Grazing	0.1000	0.9990	2 No	20
Montane Riparian	U-C Desertified	U-C Early Shrub	FeralHorse-Grazing	0.1000	0.0005	Yes	20
Montane Riparian	U-C Desertified	U-C Early Shrub	Late-Spring-Cattle-Grazing-byYr	0.1000	0.0005	Yes	20
Montane Riparian	U-C Desertified	U-C Early Shrub	Summer-Cattle-Grazing-byYr	0.1000	0.0005	Yes	20
Montane Riparian	U-C Desertified	U-C Early Shrub	Wild-Horse-Grazing	0.1000	0.0005	Yes	20
Montane Riparian	U-C Desertified	U-C Insect-EFT	Exotic-Invasion	0.0010		No	5
Montane Riparian	U-C Desertified	U-C SAP	AS-Invasion	0.0050		No	
Montane Riparian	U-C Desertified	U-C TEA	Tree-Invasion	0.0080		80	No
Montane Riparian	U-C Early Shrub	A-Cottonwood Closed	Flooding-100Yr	0.0100	0.0001	Yes	
Montane Riparian	U-C Early Shrub	A-Willow Closed	Flooding-100Yr	0.0100	0.0099	Yes	
Montane Riparian	U-C Early Shrub	A-Willow Closed	Floodplan-Restoration	0.0000	0.9000	Yes	
Montane Riparian	U-C Early Shrub	U-A Early Shrub	Flooding-100Yr	0.0100	0.9900	Yes	
Montane Riparian	U-C Early Shrub	U-A Early Shrub	Floodplan-Restoration	0.0000	0.1000	Yes	
Montane Riparian	U-C Early Shrub	U-A Early Shrub	ReplacementFire	0.0070		Yes	

Montane Riparian	U-C Early Shrub	U-A Inset	Flooding-30yr	0.0330	0.0500	30	Yes	
Montane Riparian	U-C Early Shrub	U-B Inset-EFT	Exotic Invasion	0.0010			No	5
Montane Riparian	U-C Early Shrub	U-C Early Shrub	Fence&Water-Delivery	0.0100			No	19
Montane Riparian	U-C Early Shrub	U-C Early Shrub	Flooding-30yr	0.0330	0.9500	30	No	
Montane Riparian	U-C Early Shrub	U-C Early Shrub	WeedInventorySpot-Treat	0.0100			No	3
Montane Riparian	U-C Early Shrub	U-CTEA	Tree Invasion	0.0080		80	No	
Montane Riparian	U-C Exotic Forb&Tree	C-Cottonwood Closed	Exotic-Control	0.0100	0.6000		Yes	20
Montane Riparian	U-C Exotic Forb&Tree	U-A Exotic Forb&Tree	Flooding-100yr	0.0100			Yes	
Montane Riparian	U-C Exotic Forb&Tree	U-A Exotic Forb&Tree	ReplacementFire	0.0070			No	
Montane Riparian	U-C Exotic Forb&Tree	U-C Exotic Forb&Tree	Early Spring-Cattle-Grazing-byYr	0.1000			No	20
Montane Riparian	U-C Exotic Forb&Tree	U-C Exotic Forb&Tree	Exotic-Control	0.0100	0.4000		Yes	20
Montane Riparian	U-C Exotic Forb&Tree	U-C Exotic Forb&Tree	Fall-Cattle-Grazing-byYr	0.1000			No	20
Montane Riparian	U-C Exotic Forb&Tree	U-C Exotic Forb&Tree	Fence&Water-Delivery	0.0100			No	19
Montane Riparian	U-C Exotic Forb&Tree	U-C Exotic Forb&Tree	FeralHorse-Grazing	0.1000			2	20
Montane Riparian	U-C Exotic Forb&Tree	U-C Exotic Forb&Tree	Late-Spring-Cattle-Grazing-byYr	0.1000			1	20
Montane Riparian	U-C Exotic Forb&Tree	U-C Exotic Forb&Tree	Summer-Cattle-Grazing-byYr	0.1000			No	20
Montane Riparian	U-C Exotic Forb&Tree	U-C Exotic Forb&Tree	Wild-Horse-Grazing	0.1000			2	20
Montane Riparian	U-C Inset-EFT	A-Willow Closed	Flooding-100yr	0.0100	0.0100		Yes	
Montane Riparian	U-C Inset-EFT	A-Willow Closed	Floodplain-Restoration	0.0000	0.9000		Yes	
Montane Riparian	U-C Inset-EFT	U-A Inset-EFT	Exotic-Control	0.0100	0.4000		Yes	20
Montane Riparian	U-C Inset-EFT	U-A Inset-EFT	Flooding-100yr	0.0100	0.9500		Yes	
Montane Riparian	U-C Inset-EFT	U-A Inset-EFT	Floodplain-Restoration	0.0000	0.1000		Yes	
Montane Riparian	U-C Inset-EFT	U-A Inset-EFT	ReplacementFire	0.0070			Yes	
Montane Riparian	U-C Inset-EFT	U-C Desertified	Exotic-Control	0.0100	0.6000		Yes	20
Montane Riparian	U-C Inset-EFT	U-C Inset-EFT	Early Spring-Cattle-Grazing-byYr	0.1000			No	20
Montane Riparian	U-C Inset-EFT	U-C Inset-EFT	Fall-Cattle-Grazing-byYr	0.1000			No	20
Montane Riparian	U-C Inset-EFT	U-C Inset-EFT	Fence&Water-Delivery	0.0100			No	19
Montane Riparian	U-C Inset-EFT	U-C Inset-EFT	FeralHorse-Grazing	0.1000			2	20
Montane Riparian	U-C Inset-EFT	U-C Inset-EFT	Late-Spring-Cattle-Grazing-byYr	0.1000			1	20
Montane Riparian	U-C Inset-EFT	U-C Inset-EFT	Summer-Cattle-Grazing-byYr	0.1000			No	20
Montane Riparian	U-C Inset-EFT	U-C Inset-EFT	Wild-Horse-Grazing	0.1000			2	20
Montane Riparian	U-CSAP	A-Cottonwood Closed	Flooding-100yr	0.0100	0.0001		Yes	
Montane Riparian	U-CSAP	A-Willow Closed	Flooding-100yr	0.0100	0.0099		Yes	
Montane Riparian	U-CSAP	A-Willow Closed	Floodplain-Restoration	0.0000	0.9000		Yes	
Montane Riparian	U-CSAP	U-A Annual Spp	Early Spring-Cattle-Grazing-byYr	0.1000	0.0005		Yes	20
Montane Riparian	U-CSAP	U-A Annual Spp	Fall-Cattle-Grazing-byYr	0.1000	0.0005		Yes	20
Montane Riparian	U-CSAP	U-A Annual Spp	FeralHorse-Grazing	0.1000	0.0010		Yes	20
Montane Riparian	U-CSAP	U-A Annual Spp	Late-Spring-Cattle-Grazing-byYr	0.1000	0.0010		Yes	20
Montane Riparian	U-CSAP	U-A Annual Spp	ReplacementFire	0.0070			Yes	
Montane Riparian	U-CSAP	U-A Annual Spp	Summer-Cattle-Grazing-byYr	0.1000	0.0005		Yes	20
Montane Riparian	U-CSAP	U-A Annual Spp	Wild-Horse-Grazing	0.1000	0.0010		Yes	20
Montane Riparian	U-CSAP	U-A Inset	Flooding-30yr	0.0330	0.0500	30	Yes	
Montane Riparian	U-CSAP	U-B Inset-EFT	Exotic Invasion	0.0010			No	5
Montane Riparian	U-CSAP	U-B Shrb-Frb Encr	Small-Rock Dam	0.0000			Yes	
Montane Riparian	U-CSAP	U-CSAP	Early Spring-Cattle-Grazing-byYr	0.1000	0.9995		No	20
Montane Riparian	U-CSAP	U-CSAP	Fall-Cattle-Grazing-byYr	0.1000	0.9995		No	20
Montane Riparian	U-CSAP	U-CSAP	Fence&Water-Delivery	0.0100			No	19
Montane Riparian	U-CSAP	U-CSAP	FeralHorse-Grazing	0.1000	0.9990		2	20
Montane Riparian	U-CSAP	U-CSAP	Flooding-100yr	0.0100	0.9900		Yes	
Montane Riparian	U-CSAP	U-CSAP	Flooding-30yr	0.0330	0.9500	30	Yes	
Montane Riparian	U-CSAP	U-CSAP	Floodplain-Restoration	0.0000	0.1000		Yes	
Montane Riparian	U-CSAP	U-CSAP	Late-Spring-Cattle-Grazing-byYr	0.1000	0.9990		1	20
Montane Riparian	U-CSAP	U-CSAP	Summer-Cattle-Grazing-byYr	0.1000	0.9995		No	20
Montane Riparian	U-CSAP	U-CSAP	WeedInventorySpot-Treat	0.0100			No	3
Montane Riparian	U-CSAP	U-CSAP	Wild-Horse-Grazing	0.1000	0.9990		2	20
Montane Riparian	U-CSAP	U-CTEA	Tree Invasion	0.0080		80	No	
Montane Riparian	U-CSHrb-Frb Encr	U-A Shrb-Frb Encr	Flooding-100yr	0.0100			Yes	
Montane Riparian	U-CSHrb-Frb Encr	U-A Shrb-Frb Encr	ReplacementFire	0.0070			No	
Montane Riparian	U-CSHrb-Frb Encr	U-C Desertified	Early Spring-Cattle-Grazing-byYr	0.1000	0.0005		No	20
Montane Riparian	U-CSHrb-Frb Encr	U-C Desertified	Fall-Cattle-Grazing-byYr	0.1000	0.0010		No	20
Montane Riparian	U-CSHrb-Frb Encr	U-C Desertified	Fence&Water-Delivery	0.0100	0.0010		No	20
Montane Riparian	U-CSHrb-Frb Encr	U-C Desertified	FeralHorse-Grazing	0.1000	0.0010		No	20
Montane Riparian	U-CSHrb-Frb Encr	U-C Desertified	Summer-Cattle-Grazing-byYr	0.1000	0.0005		No	20
Montane Riparian	U-CSHrb-Frb Encr	U-C Desertified	Wild-Horse-Grazing	0.1000	0.0010		No	20
Montane Riparian	U-CSHrb-Frb Encr	U-C Exotic Forb&Tree	Exotic Invasion	0.0010			Yes	5
Montane Riparian	U-CSHrb-Frb Encr	U-CSHrb-Frb Encr	Early Spring-Cattle-Grazing-byYr	0.1000	0.9995		No	20
Montane Riparian	U-CSHrb-Frb Encr	U-CSHrb-Frb Encr	Fall-Cattle-Grazing-byYr	0.1000	0.9995		No	20
Montane Riparian	U-CSHrb-Frb Encr	U-CSHrb-Frb Encr	Fence&Water-Delivery	0.0100			No	19
Montane Riparian	U-CSHrb-Frb Encr	U-CSHrb-Frb Encr	FeralHorse-Grazing	0.1000	0.9990		No	20
Montane Riparian	U-CSHrb-Frb Encr	U-CSHrb-Frb Encr	Late-Spring-Cattle-Grazing-byYr	0.1000	0.9990		No	20
Montane Riparian	U-CSHrb-Frb Encr	U-CSHrb-Frb Encr	Summer-Cattle-Grazing-byYr	0.1000	0.9995		No	20
Montane Riparian	U-CSHrb-Frb Encr	U-CSHrb-Frb Encr	WeedInventorySpot-Treat	0.0100			No	3
Montane Riparian	U-CSHrb-Frb Encr	U-CSHrb-Frb Encr	Wild-Horse-Grazing	0.1000	0.9990		No	20
Montane Riparian	U-CSHrb-Frb Encr	U-C Cottonwood Closed	Flooding-100yr	0.0100	0.0001		Yes	
Montane Riparian	U-CSHrb-Frb Encr	A-Willow Closed	Flooding-100yr	0.0100	0.0099		Yes	
Montane Riparian	U-CSHrb-Frb Encr	U-A Inset	Flooding-30yr	0.0330	0.0500	30	Yes	
Montane Riparian	U-CSHrb-Frb Encr	U-A SI	ReplacementFire	0.0010			Yes	
Montane Riparian	U-CSHrb-Frb Encr	U-C Desertified	NaturalRecovery	0.0010			No	10
Montane Riparian	U-CSHrb-Frb Encr	U-C Inset-EFT	Exotic Invasion	0.0010			No	5
Montane Riparian	U-CSHrb-Frb Encr	U-CSHrb-Frb Encr	Early Spring-Cattle-Grazing-byYr	0.1000			No	20
Montane Riparian	U-CSHrb-Frb Encr	U-CSHrb-Frb Encr	Fall-Cattle-Grazing-byYr	0.1000			No	20
Montane Riparian	U-CSHrb-Frb Encr	U-CSHrb-Frb Encr	Fence&Water-Delivery	0.0100			No	19
Montane Riparian	U-CSHrb-Frb Encr	U-CSHrb-Frb Encr	FeralHorse-Grazing	0.1000			2	20
Montane Riparian	U-CSHrb-Frb Encr	U-CSHrb-Frb Encr	Flooding-100yr	0.0100	0.9900		No	
Montane Riparian	U-CSHrb-Frb Encr	U-CSHrb-Frb Encr	Flooding-30yr	0.0330	0.9500	30	No	
Montane Riparian	U-CSHrb-Frb Encr	U-CSHrb-Frb Encr	Late-Spring-Cattle-Grazing-byYr	0.1000			1	20
Montane Riparian	U-CSHrb-Frb Encr	U-CSHrb-Frb Encr	Summer-Cattle-Grazing-byYr	0.1000			No	20
Montane Riparian	U-CSHrb-Frb Encr	U-CSHrb-Frb Encr	WeedInventorySpot-Treat	0.0100			No	3
Montane Riparian	U-CSHrb-Frb Encr	U-CSHrb-Frb Encr	Wild-Horse-Grazing	0.1000			2	20
Montane Riparian	U-CSHrb-Frb Encr	U-CSHrb-Frb Encr	AS-Invasion	0.0010			No	
Montane Riparian	U-CSHrb-Frb Encr	A-Cottonwood Closed	Flooding-100yr	0.0100	0.0001		Yes	
Montane Riparian	U-CSHrb-Frb Encr	A-Willow Closed	Flooding-100yr	0.0100	0.0099		Yes	
Montane Riparian	U-CSHrb-Frb Encr	U-A Inset	Flooding-30yr	0.0330	0.0500	30	Yes	
Montane Riparian	U-CSHrb-Frb Encr	U-A SI	ReplacementFire	0.0020			Yes	5
Montane Riparian	U-CSHrb-Frb Encr	U-C Inset-EFT	Exotic Invasion	0.0010			No	5
Montane Riparian	U-CSHrb-Frb Encr	U-CSHrb-Frb Encr	Competition	0.3300			No	3
Montane Riparian	U-CSHrb-Frb Encr	U-CSHrb-Frb Encr	Early Spring-Cattle-Grazing-byYr	0.1000			No	20
Montane Riparian	U-CSHrb-Frb Encr	U-CSHrb-Frb Encr	Fall-Cattle-Grazing-byYr	0.1000			No	20
Montane Riparian	U-CSHrb-Frb Encr	U-CSHrb-Frb Encr	Fence&Water-Delivery	0.0100			No	19
Montane Riparian	U-CSHrb-Frb Encr	U-CSHrb-Frb Encr	FeralHorse-Grazing	0.1000			2	20
Montane Riparian	U-CSHrb-Frb Encr	U-CSHrb-Frb Encr	Flooding-100yr	0.0100	0.9900		No	
Montane Riparian	U-CSHrb-Frb Encr	U-CSHrb-Frb Encr	Flooding-30yr	0.0330	0.9500	30	No	
Montane Riparian	U-CSHrb-Frb Encr	U-CSHrb-Frb Encr	Late-Spring-Cattle-Grazing-byYr	0.1000			1	20
Montane Riparian	U-CSHrb-Frb Encr	U-CSHrb-Frb Encr	Summer-Cattle-Grazing-byYr	0.1000			No	20
Montane Riparian	U-CSHrb-Frb Encr	U-CSHrb-Frb Encr	WeedInventorySpot-Treat	0.0100			No	3
Montane Riparian	U-CSHrb-Frb Encr	U-CSHrb-Frb Encr	Web-Year	0.0670			No	
Montane Riparian	U-CSHrb-Frb Encr	U-CSHrb-Frb Encr	Wild-Horse-Grazing	0.1000			2	20
Montane Riparian	U-CTEA	A-Cottonwood Closed	Flooding-100yr	0.0100	0.0001		Yes	
Montane Riparian	U-CTEA	A-Willow Closed	Flooding-100yr	0.0100	0.0099		Yes	
Montane Riparian	U-CTEA	U-A Annual Spp	Floodplain-Restoration	0.0000			Yes	
Montane Riparian	U-CTEA	U-A Annual Spp	Chain Saw Thinning	0.0100	0.5000	100	Yes	
Montane Riparian	U-CTEA	U-A Annual Spp	ReplacementFire	0.0070			Yes	
Montane Riparian	U-CTEA	U-A Early Shrub	Chain Saw Thinning	0.0100	0.5000	100	Yes	
Montane Riparian	U-CTEA	U-A Inset	Flooding-30yr	0.0330	0.0500	30	Yes	
Montane Riparian	U-CTEA	U-A Shrb-Frb Encr	Small-Rock Dam	0.0000	0.1000		Yes	
Montane Riparian	U-CTEA	U-B Inset-EFT	Exotic Invasion	0.0010			No	5
Montane Riparian	U-CTEA	U-CSAP	Chain Saw Thinning	0.0100			Yes	
Montane Riparian	U-CTEA	U-CTEA	Fence&Water-Delivery	0.0100			No	19

Montane Riparian	U-C-TEA	U-C-TEA	Flooding-100yr	0.0100	0.9900		Yes	
Montane Riparian	U-C-TEA	U-C-TEA	Flooding-50yr	0.0300	0.9500	30	No	
Montane Riparian	U-C-TEA	U-C-TEA	Floodplain-Restoration	0.0000			Yes	
Montane Riparian	U-C-TEA	U-C-TEA	Small-Rock-Drm	0.0000	0.9000		Yes	
Montane Sagebrush Steppe-Subalpine	A.All	A.All	Early-Spring-Cattle-Grazing-by/yr	0.0975		3	No	
Montane Sagebrush Steppe-Subalpine	A.All	A.All	Fall-Cattle-Grazing-by/yr	0.0124		3	No	
Montane Sagebrush Steppe-Subalpine	A.All	A.All	Feral-Horse-Grazing	0.0240	0.9990		2 No	
Montane Sagebrush Steppe-Subalpine	A.All	A.All	Late-Spring-Cattle-Grazing-by/yr	0.0975	0.9990	3	1 No	
Montane Sagebrush Steppe-Subalpine	A.All	A.All	ReplacemntFire	0.0225			Yes	
Montane Sagebrush Steppe-Subalpine	A.All	A.All	Summer-Cattle-Grazing-by/yr	0.0124		3	No	
Montane Sagebrush Steppe-Subalpine	A.All	A.All	Wild-Horse-Grazing	0.0240	0.9990		2 No	
Montane Sagebrush Steppe-Subalpine	A.All	U-A Bare Ground	Feral-Horse-Grazing	0.0240	0.0005		Yes	
Montane Sagebrush Steppe-Subalpine	A.All	U-A Bare Ground	Late-Spring-Cattle-Grazing-by/yr	0.0975	0.0005	3	Yes	
Montane Sagebrush Steppe-Subalpine	A.All	U-A Bare Ground	Wild-Horse-Grazing	0.0240	0.0005		Yes	
Montane Sagebrush Steppe-Subalpine	A.All	U-A Early Shrub	Feral-Horse-Grazing	0.0240	0.0005		Yes	
Montane Sagebrush Steppe-Subalpine	A.All	U-A Early Shrub	Late-Spring-Cattle-Grazing-by/yr	0.0975	0.0005	3	Yes	
Montane Sagebrush Steppe-Subalpine	A.All	U-A Early Shrub	Wild-Horse-Grazing	0.0240	0.0005		2 No	
Montane Sagebrush Steppe-Subalpine	A.All	U-A SAP	AS-Invasion	0.0010			No	
Montane Sagebrush Steppe-Subalpine	B.Open	A.All	ReplacemntFire	0.0250			Yes	
Montane Sagebrush Steppe-Subalpine	B.Open	A.All	Severe-Drought	0.0070	0.1000		Yes	
Montane Sagebrush Steppe-Subalpine	B.Open	B.Open	Early-Spring-Cattle-Grazing-by/yr	0.0975			No	
Montane Sagebrush Steppe-Subalpine	B.Open	B.Open	Fall-Cattle-Grazing-by/yr	0.0124			No	
Montane Sagebrush Steppe-Subalpine	B.Open	B.Open	Feral-Horse-Grazing	0.0240	0.9990		2 No	
Montane Sagebrush Steppe-Subalpine	B.Open	B.Open	Late-Spring-Cattle-Grazing-by/yr	0.0975	0.9990		Yes	
Montane Sagebrush Steppe-Subalpine	B.Open	B.Open	Severe-Drought	0.0070	0.9000		Yes	
Montane Sagebrush Steppe-Subalpine	B.Open	B.Open	Summer-Cattle-Grazing-by/yr	0.0124			No	
Montane Sagebrush Steppe-Subalpine	B.Open	B.Open	Wild-Horse-Grazing	0.0240	0.9990		2 No	
Montane Sagebrush Steppe-Subalpine	B.Open	C.Dense	Alternate-Succession	0.0010		29	Yes	
Montane Sagebrush Steppe-Subalpine	B.Open	U-A Bare Ground	U-A Bare Ground	0.0240	0.0005		Yes	
Montane Sagebrush Steppe-Subalpine	B.Open	U-A Bare Ground	Late-Spring-Cattle-Grazing-by/yr	0.0975	0.0005		Yes	
Montane Sagebrush Steppe-Subalpine	B.Open	U-A Bare Ground	Wild-Horse-Grazing	0.0240	0.0005		Yes	
Montane Sagebrush Steppe-Subalpine	B.Open	U-A Early Shrub	Feral-Horse-Grazing	0.0240	0.0005		Yes	
Montane Sagebrush Steppe-Subalpine	B.Open	U-A Early Shrub	Late-Spring-Cattle-Grazing-by/yr	0.0975	0.0005		Yes	
Montane Sagebrush Steppe-Subalpine	B.Open	U-B Early Shrub	Wild-Horse-Grazing	0.0240	0.0005		2 No	
Montane Sagebrush Steppe-Subalpine	B.Open	U-B SAP	AS-Invasion	0.0010			No	
Montane Sagebrush Steppe-Subalpine	C.Closed	A.All	ReplacemntFire	0.0200			Yes	
Montane Sagebrush Steppe-Subalpine	C.Closed	B.Open	Severe-Drought	0.0070	0.9000		Yes	
Montane Sagebrush Steppe-Subalpine	C.Closed	C.Closed	Early-Spring-Cattle-Grazing-by/yr	0.0975			No	
Montane Sagebrush Steppe-Subalpine	C.Closed	C.Closed	Fall-Cattle-Grazing-by/yr	0.0124			No	
Montane Sagebrush Steppe-Subalpine	C.Closed	C.Closed	Feral-Horse-Grazing	0.0240	0.9990		2 No	
Montane Sagebrush Steppe-Subalpine	C.Closed	C.Closed	Late-Spring-Cattle-Grazing-by/yr	0.0975	0.9990		1 No	
Montane Sagebrush Steppe-Subalpine	C.Closed	C.Closed	Severe-Drought	0.0070	0.1000		Yes	
Montane Sagebrush Steppe-Subalpine	C.Closed	C.Closed	Summer-Cattle-Grazing-by/yr	0.0124			No	
Montane Sagebrush Steppe-Subalpine	C.Closed	C.Closed	Wild-Horse-Grazing	0.0240	0.9990		2 No	
Montane Sagebrush Steppe-Subalpine	C.Closed	D.Open	Tree-Invasion	0.0080		80	Yes	
Montane Sagebrush Steppe-Subalpine	C.Closed	U-A Bare Ground	Feral-Horse-Grazing	0.0240	0.0005		Yes	
Montane Sagebrush Steppe-Subalpine	C.Closed	U-A Bare Ground	Late-Spring-Cattle-Grazing-by/yr	0.0975	0.0005		Yes	
Montane Sagebrush Steppe-Subalpine	C.Closed	U-A Bare Ground	Wild-Horse-Grazing	0.0240	0.0005		Yes	
Montane Sagebrush Steppe-Subalpine	C.Closed	U-C Depleted	Feral-Horse-Grazing	0.0240	0.0005		2 No	
Montane Sagebrush Steppe-Subalpine	C.Closed	U-C Depleted	Late-Spring-Cattle-Grazing-by/yr	0.0975	0.0005		Yes	
Montane Sagebrush Steppe-Subalpine	C.Closed	U-C Depleted	Wild-Horse-Grazing	0.0240	0.0005		2 No	
Montane Sagebrush Steppe-Subalpine	C.Closed	U-CSAP	AS-Invasion	0.0010			No	
Montane Sagebrush Steppe-Subalpine	C.Dense	A.All	ReplacemntFire	0.0200			Yes	
Montane Sagebrush Steppe-Subalpine	C.Dense	B.Open	Severe-Drought	0.0070	0.1000		Yes	
Montane Sagebrush Steppe-Subalpine	C.Dense	C.Dense	Early-Spring-Cattle-Grazing-by/yr	0.0975			No	
Montane Sagebrush Steppe-Subalpine	C.Dense	C.Dense	Fall-Cattle-Grazing-by/yr	0.0124			No	
Montane Sagebrush Steppe-Subalpine	C.Dense	C.Dense	Feral-Horse-Grazing	0.0240	0.9990		2 No	
Montane Sagebrush Steppe-Subalpine	C.Dense	C.Dense	Late-Spring-Cattle-Grazing-by/yr	0.0975	0.9990		Yes	
Montane Sagebrush Steppe-Subalpine	C.Dense	C.Dense	Severe-Drought	0.0070	0.9000		Yes	
Montane Sagebrush Steppe-Subalpine	C.Dense	C.Dense	Summer-Cattle-Grazing-by/yr	0.0124			No	
Montane Sagebrush Steppe-Subalpine	C.Dense	C.Dense	Wild-Horse-Grazing	0.0240	0.9990		2 No	
Montane Sagebrush Steppe-Subalpine	C.Dense	D.Dense	Tree-Invasion	0.0080		80	Yes	
Montane Sagebrush Steppe-Subalpine	C.Dense	U-A Bare Ground	Feral-Horse-Grazing	0.0240	0.0005		Yes	
Montane Sagebrush Steppe-Subalpine	C.Dense	U-A Bare Ground	Late-Spring-Cattle-Grazing-by/yr	0.0975	0.0005		Yes	
Montane Sagebrush Steppe-Subalpine	C.Dense	U-A Bare Ground	Wild-Horse-Grazing	0.0240	0.0005		Yes	
Montane Sagebrush Steppe-Subalpine	C.Dense	U-C DP-Dense	Feral-Horse-Grazing	0.0240	0.0005		2 No	
Montane Sagebrush Steppe-Subalpine	C.Dense	U-C DP-Dense	Late-Spring-Cattle-Grazing-by/yr	0.0975	0.0005		1 No	
Montane Sagebrush Steppe-Subalpine	C.Dense	U-C DP-Dense	Wild-Horse-Grazing	0.0240	0.0005		2 No	
Montane Sagebrush Steppe-Subalpine	C.Dense	U-CSAP-Dense	AS-Invasion	0.0010			No	
Montane Sagebrush Steppe-Subalpine	D.Dense	A.All	ReplacemntFire	0.0200			Yes	
Montane Sagebrush Steppe-Subalpine	D.Dense	C.Dense	Severe-Drought	0.0070	0.1000		Yes	
Montane Sagebrush Steppe-Subalpine	D.Dense	D.Dense	Small-Tree-Lopping	0.0100			Yes	
Montane Sagebrush Steppe-Subalpine	D.Dense	D.Dense	Early-Spring-Cattle-Grazing-by/yr	0.0975			No	
Montane Sagebrush Steppe-Subalpine	D.Dense	D.Dense	Fall-Cattle-Grazing-by/yr	0.0124			No	
Montane Sagebrush Steppe-Subalpine	D.Dense	D.Dense	Feral-Horse-Grazing	0.0240	0.0010		2 No	
Montane Sagebrush Steppe-Subalpine	D.Dense	D.Dense	Late-Spring-Cattle-Grazing-by/yr	0.0975	0.9990		1 No	
Montane Sagebrush Steppe-Subalpine	D.Dense	D.Dense	Severe-Drought	0.0070	0.9000		Yes	
Montane Sagebrush Steppe-Subalpine	D.Dense	D.Dense	Summer-Cattle-Grazing-by/yr	0.0124			No	
Montane Sagebrush Steppe-Subalpine	D.Dense	D.Dense	Wild-Horse-Grazing	0.0240	0.0010		2 No	
Montane Sagebrush Steppe-Subalpine	D.Dense	U-D DP-Dense	Feral-Horse-Grazing	0.0240	0.0010		2 No	
Montane Sagebrush Steppe-Subalpine	D.Dense	U-D DP-Dense	Late-Spring-Cattle-Grazing-by/yr	0.0975	0.0010		1 No	
Montane Sagebrush Steppe-Subalpine	D.Dense	U-D DP-Dense	Wild-Horse-Grazing	0.0240	0.0010		2 No	
Montane Sagebrush Steppe-Subalpine	D.Dense	U-D SAP-Dense	AS-Invasion	0.0010			No	
Montane Sagebrush Steppe-Subalpine	D.Open	A.All	ReplacemntFire	0.0200			Yes	
Montane Sagebrush Steppe-Subalpine	D.Open	C.Closed	Severe-Drought	0.0070	0.1000		Yes	
Montane Sagebrush Steppe-Subalpine	D.Open	C.Closed	Small-Tree-Lopping	0.0100			Yes	
Montane Sagebrush Steppe-Subalpine	D.Open	D.Open	Early-Spring-Cattle-Grazing-by/yr	0.0975			No	
Montane Sagebrush Steppe-Subalpine	D.Open	D.Open	Fall-Cattle-Grazing-by/yr	0.0124			No	
Montane Sagebrush Steppe-Subalpine	D.Open	D.Open	Feral-Horse-Grazing	0.0240	0.9990		2 No	
Montane Sagebrush Steppe-Subalpine	D.Open	D.Open	Late-Spring-Cattle-Grazing-by/yr	0.0975	0.9990		1 No	
Montane Sagebrush Steppe-Subalpine	D.Open	D.Open	Severe-Drought	0.0070	0.9000		Yes	
Montane Sagebrush Steppe-Subalpine	D.Open	D.Open	Summer-Cattle-Grazing-by/yr	0.0124			No	
Montane Sagebrush Steppe-Subalpine	D.Open	D.Open	Wild-Horse-Grazing	0.0240	0.9990		2 No	
Montane Sagebrush Steppe-Subalpine	D.Open	U-A Bare Ground	Feral-Horse-Grazing	0.0240	0.0005		2 No	
Montane Sagebrush Steppe-Subalpine	D.Open	U-A Bare Ground	Late-Spring-Cattle-Grazing-by/yr	0.0975	0.0005		1 No	
Montane Sagebrush Steppe-Subalpine	D.Open	U-A Bare Ground	Wild-Horse-Grazing	0.0240	0.0010		2 No	
Montane Sagebrush Steppe-Subalpine	D.Open	U-D Depleted	Feral-Horse-Grazing	0.0240	0.0005		2 No	
Montane Sagebrush Steppe-Subalpine	D.Open	U-D Depleted	Late-Spring-Cattle-Grazing-by/yr	0.0975	0.0005		1 No	
Montane Sagebrush Steppe-Subalpine	D.Open	U-D Depleted	Wild-Horse-Grazing	0.0240	0.0010		2 No	
Montane Sagebrush Steppe-Subalpine	D.Open	U-D SAP	AS-Invasion	0.0010			No	
Montane Sagebrush Steppe-Subalpine	E.Closed	A.All	ReplacemntFire	0.0100			Yes	
Montane Sagebrush Steppe-Subalpine	E.Closed	B.Open	Mutualism-Native-Seed	0.0000			Yes	
Montane Sagebrush Steppe-Subalpine	E.Closed	D.Dense	Severe-Drought	0.0070	0.0100		Yes	
Montane Sagebrush Steppe-Subalpine	E.Closed	D.Open	Severe-Drought	0.0070	0.9000		Yes	
Montane Sagebrush Steppe-Subalpine	E.Closed	E.Closed	Severe-Drought	0.0070		200	5 No	
Montane Sagebrush Steppe-Subalpine	E.Closed	E.Closed	Severe-Drought	0.0070	0.9000		199	Yes
Montane Sagebrush Steppe-Subalpine	E.Closed	U-E TEA	AS-Invasion	0.0010			No	
Montane Sagebrush Steppe-Subalpine	E.Closed	U-E TEA	Tree-Enrichment	0.0200		200	No	
Montane Sagebrush Steppe-Subalpine	U-A Annual Spp	A.All	Herbicide-Plateau+Native-Seed	0.0000	0.9500		Yes	
Montane Sagebrush Steppe-Subalpine	U-A Annual Spp	U-A Annual Spp	Early-Spring-Cattle-Grazing-by/yr	0.0975		3	Yes	
Montane Sagebrush Steppe-Subalpine	U-A Annual Spp	U-A Annual Spp	Fall-Cattle-Grazing-by/yr	0.0124		3	Yes	
Montane Sagebrush Steppe-Subalpine	U-A Annual Spp	U-A Annual Spp	Feral-Horse-Grazing	0.0240			2 No	
Montane Sagebrush Steppe-Subalpine	U-A Annual Spp	U-A Annual Spp	Herbicide-Plateau+Native-Seed	0.0000	0.0250		Yes	
Montane Sagebrush Steppe-Subalpine	U-A Annual Spp	U-A Annual Spp	ReplacemntFire	0.1000			1	Yes
Montane Sagebrush Steppe-Subalpine	U-A Annual Spp	U-A Annual Spp	Wild-Horse-Grazing	0.0240			2 No	
Montane Sagebrush Steppe-Subalpine	U-A Annual Spp	U-A SAP	Herbicide-Plateau+Native-Seed	0.0000	0.0250		Yes	
Montane Sagebrush Steppe-Subalpine	U-A Bare Ground	U-A Annual Spp	AS-Invasion	0.0010			Yes	
Montane Sagebrush Steppe-Subalpine	U-A Bare Ground	U-A Early Shrub	Alternate-Succession	0.0975		3	Yes	

Montane Sagebrush Steppe-Upland	D-Dense	U-A Bare Ground	Summer-Cattle-Grazing-by/r	0.0069	0.0005				Yes
Montane Sagebrush Steppe-Upland	D-Dense	U-A Bare Ground	Wild-Horse-Grazing	0.0170	0.0005				Yes
Montane Sagebrush Steppe-Upland	D-Dense	U-D-DP-Dense	Feral-Horse-Grazing	0.0170	0.0005			2	No
Montane Sagebrush Steppe-Upland	D-Dense	U-D-DP-Dense	Late-Spring-Cattle-Grazing-by/r	0.0542	0.0005			1	No
Montane Sagebrush Steppe-Upland	D-Dense	U-D-DP-Dense	Wild-Horse-Grazing	0.0170	0.0005			2	No
Montane Sagebrush Steppe-Upland	D-Dense	U-D-SAP-Dense	AS-Invasion	0.0025					No
Montane Sagebrush Steppe-Upland	D-Open	A-All	ReplacementFire	0.0200					Yes
Montane Sagebrush Steppe-Upland	D-Open	C-Closed	Severe-Drought	0.0070	0.1000				Yes
Montane Sagebrush Steppe-Upland	D-Open	C-Closed	Small-Tree-Lopping	0.0200					Yes
Montane Sagebrush Steppe-Upland	D-Open	D-Open	Early-Spring-Cattle-Grazing-by/r	0.0542	0.9995				No
Montane Sagebrush Steppe-Upland	D-Open	D-Open	Fall-Cattle-Grazing-by/r	0.0069	0.9995				No
Montane Sagebrush Steppe-Upland	D-Open	D-Open	Feral-Horse-Grazing	0.0170	0.9990			2	No
Montane Sagebrush Steppe-Upland	D-Open	D-Open	Late-Spring-Cattle-Grazing-by/r	0.0542	0.9990			1	No
Montane Sagebrush Steppe-Upland	D-Open	D-Open	Severe-Drought	0.0070	0.9000				Yes
Montane Sagebrush Steppe-Upland	D-Open	D-Open	Summer-Cattle-Grazing-by/r	0.0069	0.9995				No
Montane Sagebrush Steppe-Upland	D-Open	D-Open	Wild-Horse-Grazing	0.0170	0.9990			2	No
Montane Sagebrush Steppe-Upland	D-Open	U-A Bare Ground	Early-Spring-Cattle-Grazing-by/r	0.0542	0.0005				No
Montane Sagebrush Steppe-Upland	D-Open	U-A Bare Ground	Fall-Cattle-Grazing-by/r	0.0069	0.0005				Yes
Montane Sagebrush Steppe-Upland	D-Open	U-A Bare Ground	Feral-Horse-Grazing	0.0170	0.0005				Yes
Montane Sagebrush Steppe-Upland	D-Open	U-A Bare Ground	Late-Spring-Cattle-Grazing-by/r	0.0542	0.0005				Yes
Montane Sagebrush Steppe-Upland	D-Open	U-A Bare Ground	Summer-Cattle-Grazing-by/r	0.0069	0.0005				Yes
Montane Sagebrush Steppe-Upland	D-Open	U-A Bare Ground	Wild-Horse-Grazing	0.0170	0.0005				Yes
Montane Sagebrush Steppe-Upland	D-Open	U-D-Depleted	Feral-Horse-Grazing	0.0170	0.0005			2	No
Montane Sagebrush Steppe-Upland	D-Open	U-D-Depleted	Late-Spring-Cattle-Grazing-by/r	0.0542	0.0005			1	No
Montane Sagebrush Steppe-Upland	D-Open	U-D-Depleted	Wild-Horse-Grazing	0.0170	0.0005			2	No
Montane Sagebrush Steppe-Upland	D-Open	U-D-SAP	AS-Invasion	0.0025					No
Montane Sagebrush Steppe-Upland	E-Closed	A-All	MasticationNative-Seed	0.0000					Yes
Montane Sagebrush Steppe-Upland	E-Closed	A-All	ReplacementFire	0.0100					Yes
Montane Sagebrush Steppe-Upland	E-Closed	D-Dense	Severe-Drought	0.0070	0.1000				No
Montane Sagebrush Steppe-Upland	E-Closed	D-Open	Severe-Drought	0.0070	0.9000				Yes
Montane Sagebrush Steppe-Upland	E-Closed	E-Closed	Severe-Drought	0.0070		200		5	No
Montane Sagebrush Steppe-Upland	E-Closed	E-Closed	Severe-Drought	0.0070	0.9000			199	Yes
Montane Sagebrush Steppe-Upland	E-Closed	U-E-TEA	AS-Invasion	0.0025					No
Montane Sagebrush Steppe-Upland	E-Closed	U-E-TEA	Tree-GrowthLimit	0.1200			200		No
Montane Sagebrush Steppe-Upland	U-A Annual Spp	U-A Annual Spp	BLM-Post-Fire-Rabb	0.0100	0.6500			3	No
Montane Sagebrush Steppe-Upland	U-A Annual Spp	U-A Annual Spp	Early-Spring-Cattle-Grazing-by/r	0.0542				3	Yes
Montane Sagebrush Steppe-Upland	U-A Annual Spp	U-A Annual Spp	Fall-Cattle-Grazing-by/r	0.0069				3	Yes
Montane Sagebrush Steppe-Upland	U-A Annual Spp	U-A Annual Spp	Feral-Horse-Grazing	0.0170				2	No
Montane Sagebrush Steppe-Upland	U-A Annual Spp	U-A Annual Spp	Herbicide-Plateau/Seed/Strub-Planting	0.0100	0.1000				No
Montane Sagebrush Steppe-Upland	U-A Annual Spp	U-A Annual Spp	ReplacementFire	0.1000					Yes
Montane Sagebrush Steppe-Upland	U-A Annual Spp	U-A Annual Spp	Wild-Horse-Grazing	0.0170				2	No
Montane Sagebrush Steppe-Upland	U-A Exotic Forbs	U-A Exotic Forbs	Exotic-Invasion	0.0005					Yes
Montane Sagebrush Steppe-Upland	U-A SI	U-A SI	BLM-Post-Fire-Rabb	0.0100	0.1750			3	Yes
Montane Sagebrush Steppe-Upland	U-A Annual Spp	U-A SI	Herbicide-Plateau/Seed/Strub-Planting	0.0100	0.8000				Yes
Montane Sagebrush Steppe-Upland	U-A Annual Spp	U-A SHAS	BLM-Post-Fire-Rabb	0.0100	0.1750			3	Yes
Montane Sagebrush Steppe-Upland	U-A Annual Spp	U-A SHAS	Herbicide-Plateau/Seed/Strub-Planting	0.0100	0.1000				Yes
Montane Sagebrush Steppe-Upland	U-A Bare Ground	U-A Annual Spp	AS-Invasion	0.0050					Yes
Montane Sagebrush Steppe-Upland	U-A Bare Ground	U-A Early Shr	Alternate-Succession	0.0542				3	Yes
Montane Sagebrush Steppe-Upland	U-A Bare Ground	U-A Exotic Forbs	Exotic-Invasion	0.0005					Yes
Montane Sagebrush Steppe-Upland	U-A Early Shr	U-A Early Shr	ReplacementFire	0.0200					Yes
Montane Sagebrush Steppe-Upland	U-A Early Shr	U-A Exotic Forbs	Exotic-Invasion	0.0005					No
Montane Sagebrush Steppe-Upland	U-A Exotic Forbs	U-A Exotic Forbs	Early-Spring-Cattle-Grazing-by/r	0.0542					Yes
Montane Sagebrush Steppe-Upland	U-A Exotic Forbs	U-A Exotic Forbs	Exotic-Control	0.0100	0.2000				No
Montane Sagebrush Steppe-Upland	U-A Exotic Forbs	U-A Exotic Forbs	Fall-Cattle-Grazing-by/r	0.0069				3	No
Montane Sagebrush Steppe-Upland	U-A Exotic Forbs	U-A Exotic Forbs	Feral-Horse-Grazing	0.0170				2	No
Montane Sagebrush Steppe-Upland	U-A Exotic Forbs	U-A Exotic Forbs	Late-Spring-Cattle-Grazing-by/r	0.0542				3	No
Montane Sagebrush Steppe-Upland	U-A Exotic Forbs	U-A Exotic Forbs	ReplacementFire	0.0200					Yes
Montane Sagebrush Steppe-Upland	U-A Exotic Forbs	U-A Exotic Forbs	Summer-Cattle-Grazing-by/r	0.0069				3	No
Montane Sagebrush Steppe-Upland	U-A Exotic Forbs	U-A Exotic Forbs	Wild-Horse-Grazing	0.0170				2	No
Montane Sagebrush Steppe-Upland	U-A Exotic Forbs	U-A SI	Exotic-Control	0.0100	0.8000				20
Montane Sagebrush Steppe-Upland	U-A SAP	U-A Annual Spp	Early-Spring-Cattle-Grazing-by/r	0.0542	0.0010			3	Yes
Montane Sagebrush Steppe-Upland	U-A SAP	U-A Annual Spp	Fall-Cattle-Grazing-by/r	0.0069	0.0010			3	Yes
Montane Sagebrush Steppe-Upland	U-A SAP	U-A Annual Spp	Feral-Horse-Grazing	0.0170	0.0010			3	Yes
Montane Sagebrush Steppe-Upland	U-A SAP	U-A Annual Spp	Late-Spring-Cattle-Grazing-by/r	0.0542	0.0005			3	Yes
Montane Sagebrush Steppe-Upland	U-A SAP	U-A Annual Spp	ReplacementFire	0.0250	0.5000				Yes
Montane Sagebrush Steppe-Upland	U-A SAP	U-A Annual Spp	Summer-Cattle-Grazing-by/r	0.0069	0.0005			3	Yes
Montane Sagebrush Steppe-Upland	U-A SAP	U-A Annual Spp	Wild-Horse-Grazing	0.0170	0.0010				Yes
Montane Sagebrush Steppe-Upland	U-A SAP	U-A SAP	BLM-Post-Fire-Rabb	0.0100	0.6500				1
Montane Sagebrush Steppe-Upland	U-A SAP	U-A SAP	Early-Spring-Cattle-Grazing-by/r	0.0542	0.9995			3	No
Montane Sagebrush Steppe-Upland	U-A SAP	U-A SAP	Exotic-Invasion	0.0005					No
Montane Sagebrush Steppe-Upland	U-A SAP	U-A SAP	Fall-Cattle-Grazing-by/r	0.0069	0.9995			3	No
Montane Sagebrush Steppe-Upland	U-A SAP	U-A SAP	Feral-Horse-Grazing	0.0170	0.9990			2	No
Montane Sagebrush Steppe-Upland	U-A SAP	U-A SAP	Late-Spring-Cattle-Grazing-by/r	0.0542	0.9990			3	No
Montane Sagebrush Steppe-Upland	U-A SAP	U-A SAP	ReplacementFire	0.0170	0.5000				1
Montane Sagebrush Steppe-Upland	U-A SAP	U-A SAP	Severe-Drought	0.0070	0.1000				Yes
Montane Sagebrush Steppe-Upland	U-A SAP	U-A SAP	Severe-Drought	0.0070	0.9000				-1
Montane Sagebrush Steppe-Upland	U-A SAP	U-A SAP	Summer-Cattle-Grazing-by/r	0.0069	0.9995			3	No
Montane Sagebrush Steppe-Upland	U-A SAP	U-A SAP	Wild-Horse-Grazing	0.0170	0.9990			2	No
Montane Sagebrush Steppe-Upland	U-A SAP	U-A SI	BLM-Post-Fire-Rabb	0.0100	0.1750				Yes
Montane Sagebrush Steppe-Upland	U-A SAP	U-A SHAS	BLM-Post-Fire-Rabb	0.0100	0.1750				1
Montane Sagebrush Steppe-Upland	U-A Seeded Native	A-All	NaturalRecovery	0.3300					5
Montane Sagebrush Steppe-Upland	U-A Seeded Native	U-A Bare Ground	Early-Spring-Cattle-Grazing-by/r	0.0542	0.0005			6	No
Montane Sagebrush Steppe-Upland	U-A Seeded Native	U-A Bare Ground	Fall-Cattle-Grazing-by/r	0.0069	0.0005			6	No
Montane Sagebrush Steppe-Upland	U-A Seeded Native	U-A Bare Ground	Feral-Horse-Grazing	0.0170				5	Yes
Montane Sagebrush Steppe-Upland	U-A Seeded Native	U-A Bare Ground	Feral-Horse-Grazing	0.0170	0.0005			6	Yes
Montane Sagebrush Steppe-Upland	U-A Seeded Native	U-A Bare Ground	Late-Spring-Cattle-Grazing-by/r	0.0542				5	Yes
Montane Sagebrush Steppe-Upland	U-A Seeded Native	U-A Bare Ground	Late-Spring-Cattle-Grazing-by/r	0.0542	0.0005			6	Yes
Montane Sagebrush Steppe-Upland	U-A Seeded Native	U-A Bare Ground	Summer-Cattle-Grazing-by/r	0.0069	0.0005			6	Yes
Montane Sagebrush Steppe-Upland	U-A Seeded Native	U-A Bare Ground	Wild-Horse-Grazing	0.0170				5	Yes
Montane Sagebrush Steppe-Upland	U-A Seeded Native	U-A Bare Ground	Wild-Horse-Grazing	0.0170	0.0005			6	Yes
Montane Sagebrush Steppe-Upland	U-A Seeded Native	U-A Early Shr	Feral-Horse-Grazing	0.0170	0.0005			6	Yes
Montane Sagebrush Steppe-Upland	U-A Seeded Native	U-A Early Shr	Feral-Horse-Grazing	0.0170				5	Yes
Montane Sagebrush Steppe-Upland	U-A Seeded Native	U-A Early Shr	Late-Spring-Cattle-Grazing-by/r	0.0542				3	Yes
Montane Sagebrush Steppe-Upland	U-A Seeded Native	U-A Early Shr	Late-Spring-Cattle-Grazing-by/r	0.0542	0.0005			6	Yes
Montane Sagebrush Steppe-Upland	U-A Seeded Native	U-A Early Shr	Severe-Drought	0.0070				1	Yes
Montane Sagebrush Steppe-Upland	U-A Seeded Native	U-A Early Shr	Severe-Drought	0.0070	0.1000			3	Yes
Montane Sagebrush Steppe-Upland	U-A Seeded Native	U-A Early Shr	Wild-Horse-Grazing	0.0130	0.0005			6	Yes
Montane Sagebrush Steppe-Upland	U-A Seeded Native	U-A Exotic Forbs	Wild-Horse-Grazing	0.0170				5	Yes
Montane Sagebrush Steppe-Upland	U-A Seeded Native	U-A Exotic Forbs	Exotic-Invasion	0.0005					No
Montane Sagebrush Steppe-Upland	U-A Seeded Native	U-A SAP	AS-Invasion	0.0025					No
Montane Sagebrush Steppe-Upland	U-A Seeded Native	U-A Seeded Native	Early-Spring-Cattle-Grazing-by/r	0.0542	0.9995			6	No
Montane Sagebrush Steppe-Upland	U-A Seeded Native	U-A Seeded Native	Fall-Cattle-Grazing-by/r	0.0069	0.9995			6	No
Montane Sagebrush Steppe-Upland	U-A Seeded Native	U-A Seeded Native	Feral-Horse-Grazing	0.0170	0.9990			6	No
Montane Sagebrush Steppe-Upland	U-A Seeded Native	U-A Seeded Native	ReplacementFire	0.0050					Yes
Montane Sagebrush Steppe-Upland	U-A Seeded Native	U-A Seeded Native	Severe-Drought	0.0070	0.9000				Yes
Montane Sagebrush Steppe-Upland	U-A Seeded Native	U-A Seeded Native	Summer-Cattle-Grazing-by/r	0.0069	0.9995			6	No
Montane Sagebrush Steppe-Upland	U-A Seeded Native	U-A Seeded Native	Wild-Horse-Grazing	0.0170	0.9990			6	No
Montane Sagebrush Steppe-Upland	U-A SI	U-A Early Shr	Severe-Drought	0.0070				2	Yes
Montane Sagebrush Steppe-Upland	U-A SI	U-A SI	Early-Spring-Cattle-Grazing-by/r	0.0542				3	No
Montane Sagebrush Steppe-Upland	U-A SI	U-A SI	Fall-Cattle-Grazing-by/r	0.0069				3	No
Montane Sagebrush Steppe-Upland	U-A SI	U-A SI	Feral-Horse-Grazing	0.0170				3	No
Montane Sagebrush Steppe-Upland	U-A SI	U-A SI	Late-Spring-Cattle-Grazing-by/r	0.0542				3	No
Montane Sagebrush Steppe-Upland	U-A SI	U-A SI	ReplacementFire	0.0050					Yes
Montane Sagebrush Steppe-Upland	U-A SI	U-A SI	Severe-Drought	0.0070	0.1000			3	Yes
Montane Sagebrush Steppe-Upland	U-A SI	U-A SI	Severe-Drought	0.0070	0.9000				-1
Montane Sagebrush Steppe-Upland	U-A SI	U-A SI	Summer-Cattle-Grazing-by/r	0.0069				3	No
Montane Sagebrush Steppe-Upland	U-A SI	U-A SI	Wild-Horse-Grazing	0.0170				2	No
Montane Sagebrush Steppe-Upland	U-A SI	U-A SHAS	AS-Invasion	0.0010				1	No

Montane Sagebrush Steppe-Upland	U-A-SHAS	U-A-Annual Spp	Severe-Drought	0.0070		2	Yes	
Montane Sagebrush Steppe-Upland	U-A-SHAS	U-ASI	Competition	0.3330			No	3
Montane Sagebrush Steppe-Upland	U-A-SHAS	U-A-SHAS	Early-Spring-Cattle-Grazing-byYr	0.0542		3	No	
Montane Sagebrush Steppe-Upland	U-A-SHAS	U-A-SHAS	Fall-Cattle-Grazing-byYr	0.0069		3	No	
Montane Sagebrush Steppe-Upland	U-A-SHAS	U-A-SHAS	FeralHorse-Grazing	0.0170		3	No	2
Montane Sagebrush Steppe-Upland	U-A-SHAS	U-A-SHAS	Late-Spring-Cattle-Grazing-byYr	0.0542		3	No	1
Montane Sagebrush Steppe-Upland	U-A-SHAS	U-A-SHAS	ReplacemntFire	0.0100			Yes	
Montane Sagebrush Steppe-Upland	U-A-SHAS	U-A-SHAS	Severe-Drought	0.0070	0.1000	3	Yes	
Montane Sagebrush Steppe-Upland	U-A-SHAS	U-A-SHAS	Severe-Drought	0.0070	0.9000	3	Yes	1
Montane Sagebrush Steppe-Upland	U-A-SHAS	U-A-SHAS	Summer-Cattle-Grazing-byYr	0.0069		3	No	
Montane Sagebrush Steppe-Upland	U-A-SHAS	U-A-SHAS	Wet-Year	0.0670			No	
Montane Sagebrush Steppe-Upland	U-A-SHAS	U-A-SHAS	Wild-Horse-Grazing	0.0170		3	2 No	
Montane Sagebrush Steppe-Upland	U-A-Umpalat. Forb	U-A-Umpalat. Forb	ReplacemntFire	0.0200			Yes	
Montane Sagebrush Steppe-Upland	U-B-Depleted	U-A-Annual Spp	ReplacemntFire	0.0200	0.5000		Yes	
Montane Sagebrush Steppe-Upland	U-B-Depleted	U-A-Early ShrUb	ReplacemntFire	0.0200	0.5000		Yes	
Montane Sagebrush Steppe-Upland	U-B-Depleted	U-A-Early ShrUb	Severe-Drought	0.0070	0.1000		Yes	
Montane Sagebrush Steppe-Upland	U-B-Depleted	U-A-Early ShrUb	ThinSeed	0.0000	0.1000		Yes	
Montane Sagebrush Steppe-Upland	U-B-Depleted	U-ASI	ThinSeed	0.0000	0.8000		Yes	
Montane Sagebrush Steppe-Upland	U-B-Depleted	U-A-SHAS	ThinSeed	0.0000	0.1000		Yes	
Montane Sagebrush Steppe-Upland	U-B-Depleted	U-B-Depleted	Severe-Drought	0.0070	0.9000		Yes	
Montane Sagebrush Steppe-Upland	U-B-Depleted	U-B-Exotic Forbs	Exotic-Invasion	0.0025			No	
Montane Sagebrush Steppe-Upland	U-B-Depleted	U-B-SA	AS-Invasion	0.0050			No	
Montane Sagebrush Steppe-Upland	U-B-Depleted	U-C-DP-Dense	Alternate-Succession	0.0010		29	Yes	
Montane Sagebrush Steppe-Upland	U-B-Early ShrUb	U-A-Early ShrUb	ReplacemntFire	0.0200			Yes	
Montane Sagebrush Steppe-Upland	U-B-Early ShrUb	U-B-Exotic Forbs	Exotic-Invasion	0.0025			No	
Montane Sagebrush Steppe-Upland	U-B-Exotic Forbs	U-A-Annual Spp	ReplacemntFire	0.0200	0.2500		Yes	
Montane Sagebrush Steppe-Upland	U-B-Exotic Forbs	U-A-Exotic Forbs	Exotic-Control	0.0100	0.2000		Yes	20
Montane Sagebrush Steppe-Upland	U-B-Exotic Forbs	U-A-Exotic Forbs	ReplacemntFire	0.0200	0.7500		Yes	
Montane Sagebrush Steppe-Upland	U-B-Exotic Forbs	U-ASI	Exotic-Control	0.0100	0.8000		Yes	20
Montane Sagebrush Steppe-Upland	U-B-Exotic Forbs	U-B-Exotic Forbs	Early-Spring-Cattle-Grazing-byYr	0.0542			No	
Montane Sagebrush Steppe-Upland	U-B-Exotic Forbs	U-B-Exotic Forbs	Fall-Cattle-Grazing-byYr	0.0069			No	
Montane Sagebrush Steppe-Upland	U-B-Exotic Forbs	U-B-Exotic Forbs	FeralHorse-Grazing	0.0170			2 No	
Montane Sagebrush Steppe-Upland	U-B-Exotic Forbs	U-B-Exotic Forbs	Late-Spring-Cattle-Grazing-byYr	0.0542			1 No	
Montane Sagebrush Steppe-Upland	U-B-Exotic Forbs	U-B-Exotic Forbs	Summer-Cattle-Grazing-byYr	0.0069			2 No	
Montane Sagebrush Steppe-Upland	U-B-Exotic Forbs	U-B-Exotic Forbs	Wild-Horse-Grazing	0.0170			2 No	
Montane Sagebrush Steppe-Upland	U-B-SA	U-A-Annual Spp	Dixie-Harrow/PlateauSeed	0.0000	0.1000		Yes	
Montane Sagebrush Steppe-Upland	U-B-SA	U-A-Annual Spp	Early-Spring-Cattle-Grazing-byYr	0.0542	0.0005		Yes	
Montane Sagebrush Steppe-Upland	U-B-SA	U-A-Annual Spp	Fall-Cattle-Grazing-byYr	0.0069	0.0005		Yes	
Montane Sagebrush Steppe-Upland	U-B-SA	U-A-Annual Spp	FeralHorse-Grazing	0.0170	0.0010		Yes	
Montane Sagebrush Steppe-Upland	U-B-SA	U-A-Annual Spp	ReplacemntFire	0.0400			Yes	1
Montane Sagebrush Steppe-Upland	U-B-SA	U-A-Annual Spp	Severe-Drought	0.0070	0.1000		No	
Montane Sagebrush Steppe-Upland	U-B-SA	U-A-Annual Spp	Wild-Horse-Grazing	0.0170	0.0010		Yes	
Montane Sagebrush Steppe-Upland	U-B-SA	U-ASI	Dixie-Harrow/PlateauSeed	0.0000	0.8000		Yes	
Montane Sagebrush Steppe-Upland	U-B-SA	U-A-SHAS	Dixie-Harrow/PlateauSeed	0.0000	0.1000		Yes	
Montane Sagebrush Steppe-Upland	U-B-SA	U-B-Exotic Forbs	Exotic-Invasion	0.0025			No	
Montane Sagebrush Steppe-Upland	U-B-SA	U-B-SA	Early-Spring-Cattle-Grazing-byYr	0.0542	0.9995		2 No	
Montane Sagebrush Steppe-Upland	U-B-SA	U-B-SA	Fall-Cattle-Grazing-byYr	0.0069	0.9995		No	
Montane Sagebrush Steppe-Upland	U-B-SA	U-B-SA	FeralHorse-Grazing	0.0170	0.9990		No	
Montane Sagebrush Steppe-Upland	U-B-SA	U-B-SA	Severe-Drought	0.0070	0.9000		Yes	
Montane Sagebrush Steppe-Upland	U-B-SA	U-B-SA	Wild-Horse-Grazing	0.0170	0.9990		Yes	
Montane Sagebrush Steppe-Upland	U-B-SA	U-CSA-Dense	Alternate-Succession	0.0010		29	Yes	
Montane Sagebrush Steppe-Upland	U-B-SAP	U-A-Annual Spp	Early-Spring-Cattle-Grazing-byYr	0.0542	0.0005		No	
Montane Sagebrush Steppe-Upland	U-B-SAP	U-A-Annual Spp	Fall-Cattle-Grazing-byYr	0.0069	0.0005		No	
Montane Sagebrush Steppe-Upland	U-B-SAP	U-A-Annual Spp	FeralHorse-Grazing	0.0170	0.0005		1 No	
Montane Sagebrush Steppe-Upland	U-B-SAP	U-A-Annual Spp	Late-Spring-Cattle-Grazing-byYr	0.0542	0.0005		Yes	
Montane Sagebrush Steppe-Upland	U-B-SAP	U-A-Annual Spp	Summer-Cattle-Grazing-byYr	0.0069	0.0005		No	
Montane Sagebrush Steppe-Upland	U-B-SAP	U-A-Annual Spp	Wild-Horse-Grazing	0.0170	0.0005		Yes	
Montane Sagebrush Steppe-Upland	U-B-SAP	U-A-SAP	ReplacemntFire	0.0070			Yes	1
Montane Sagebrush Steppe-Upland	U-B-SAP	U-A-SAP	Severe-Drought	0.0070	0.1000		Yes	
Montane Sagebrush Steppe-Upland	U-B-SAP	U-B-Exotic Forbs	Exotic-Invasion	0.0025			No	
Montane Sagebrush Steppe-Upland	U-B-SAP	U-B-SA	FeralHorse-Grazing	0.0170	0.0005		2 No	
Montane Sagebrush Steppe-Upland	U-B-SAP	U-B-SA	Late-Spring-Cattle-Grazing-byYr	0.0542	0.0005		1 No	
Montane Sagebrush Steppe-Upland	U-B-SAP	U-B-SA	Wild-Horse-Grazing	0.0170	0.0005		2 No	
Montane Sagebrush Steppe-Upland	U-B-SAP	U-B-SAP	Early-Spring-Cattle-Grazing-byYr	0.0542	0.9995		No	
Montane Sagebrush Steppe-Upland	U-B-SAP	U-B-SAP	Fall-Cattle-Grazing-byYr	0.0069	0.9995		No	
Montane Sagebrush Steppe-Upland	U-B-SAP	U-B-SAP	FeralHorse-Grazing	0.0170	0.9990		2 No	
Montane Sagebrush Steppe-Upland	U-B-SAP	U-B-SAP	Late-Spring-Cattle-Grazing-byYr	0.0542	0.9990		1 No	
Montane Sagebrush Steppe-Upland	U-B-SAP	U-B-SAP	Severe-Drought	0.0070	0.9000		Yes	
Montane Sagebrush Steppe-Upland	U-B-SAP	U-B-SAP	Summer-Cattle-Grazing-byYr	0.0069	0.9995		No	
Montane Sagebrush Steppe-Upland	U-B-SAP	U-B-SAP	Wild-Horse-Grazing	0.0170	0.9990		2 No	
Montane Sagebrush Steppe-Upland	U-B-SAP	U-CSAP-Dense	Alternate-Succession	0.0010		29	Yes	
Montane Sagebrush Steppe-Upland	U-B-Seeded Native	B-Open	NaturalRecovery	0.3000			No	5
Montane Sagebrush Steppe-Upland	U-B-Seeded Native	U-A-Bare Ground	Early-Spring-Cattle-Grazing-byYr	0.0542	0.0005		Yes	
Montane Sagebrush Steppe-Upland	U-B-Seeded Native	U-A-Bare Ground	Fall-Cattle-Grazing-byYr	0.0069	0.0005		Yes	
Montane Sagebrush Steppe-Upland	U-B-Seeded Native	U-A-Bare Ground	FeralHorse-Grazing	0.0170	0.0005		Yes	
Montane Sagebrush Steppe-Upland	U-B-Seeded Native	U-A-Bare Ground	Late-Spring-Cattle-Grazing-byYr	0.0542	0.0005		Yes	
Montane Sagebrush Steppe-Upland	U-B-Seeded Native	U-A-Bare Ground	Summer-Cattle-Grazing-byYr	0.0069	0.0005		Yes	
Montane Sagebrush Steppe-Upland	U-B-Seeded Native	U-A-Bare Ground	Wild-Horse-Grazing	0.0170	0.0005		Yes	
Montane Sagebrush Steppe-Upland	U-B-Seeded Native	U-B-Early ShrUb	FeralHorse-Grazing	0.0170	0.0005		Yes	
Montane Sagebrush Steppe-Upland	U-B-Seeded Native	U-B-Early ShrUb	Late-Spring-Cattle-Grazing-byYr	0.0542	0.0005		Yes	
Montane Sagebrush Steppe-Upland	U-B-Seeded Native	U-B-Early ShrUb	Severe-Drought	0.0070	0.1000		Yes	
Montane Sagebrush Steppe-Upland	U-B-Seeded Native	U-B-Early ShrUb	Wild-Horse-Grazing	0.0170	0.0005		Yes	
Montane Sagebrush Steppe-Upland	U-B-Seeded Native	U-B-Exotic Forbs	Exotic-Invasion	0.0025			No	
Montane Sagebrush Steppe-Upland	U-B-Seeded Native	U-B-SAP	AS-Invasion	0.0025			No	
Montane Sagebrush Steppe-Upland	U-B-Seeded Native	U-B-Seeded Native	Early-Spring-Cattle-Grazing-byYr	0.0542	0.9995		No	
Montane Sagebrush Steppe-Upland	U-B-Seeded Native	U-B-Seeded Native	Fall-Cattle-Grazing-byYr	0.0069	0.9995		No	
Montane Sagebrush Steppe-Upland	U-B-Seeded Native	U-B-Seeded Native	FeralHorse-Grazing	0.0170	0.9990		2 No	
Montane Sagebrush Steppe-Upland	U-B-Seeded Native	U-B-Seeded Native	Late-Spring-Cattle-Grazing-byYr	0.0542	0.9990		1 No	
Montane Sagebrush Steppe-Upland	U-B-Seeded Native	U-B-Seeded Native	ReplacemntFire	0.0200			Yes	
Montane Sagebrush Steppe-Upland	U-B-Seeded Native	U-B-Seeded Native	Severe-Drought	0.0070	0.9000		Yes	
Montane Sagebrush Steppe-Upland	U-B-Seeded Native	U-B-Seeded Native	Summer-Cattle-Grazing-byYr	0.0069	0.9995		Yes	
Montane Sagebrush Steppe-Upland	U-B-Seeded Native	U-B-Seeded Native	Wild-Horse-Grazing	0.0170	0.9990		2 No	
Montane Sagebrush Steppe-Upland	U-B-Seeded Native	B-Open	NaturalRecovery	0.0010			No	10
Montane Sagebrush Steppe-Upland	U-B-SI	U-ASI	ReplacemntFire	0.0650			Yes	
Montane Sagebrush Steppe-Upland	U-B-SI	U-ASI	Severe-Drought	0.0070	0.1000		Yes	
Montane Sagebrush Steppe-Upland	U-B-SI	U-B-SI	Early-Spring-Cattle-Grazing-byYr	0.0542			No	
Montane Sagebrush Steppe-Upland	U-B-SI	U-B-SI	Fall-Cattle-Grazing-byYr	0.0069			No	
Montane Sagebrush Steppe-Upland	U-B-SI	U-B-SI	FeralHorse-Grazing	0.0130			2 No	
Montane Sagebrush Steppe-Upland	U-B-SI	U-B-SI	Late-Spring-Cattle-Grazing-byYr	0.0542			1 No	
Montane Sagebrush Steppe-Upland	U-B-SI	U-B-SI	Severe-Drought	0.0070	0.9000		Yes	
Montane Sagebrush Steppe-Upland	U-B-SI	U-B-SI	Summer-Cattle-Grazing-byYr	0.0069			No	
Montane Sagebrush Steppe-Upland	U-B-SI	U-B-SI	Wild-Horse-Grazing	0.0130			2 No	
Montane Sagebrush Steppe-Upland	U-B-SI	U-B-SHAS	AS-Invasion	0.0010			No	
Montane Sagebrush Steppe-Upland	U-B-SI	U-CSI-Dense	Alternate-Succession	0.0010		29	Yes	
Montane Sagebrush Steppe-Upland	U-B-SHAS	U-A-SHAS	ReplacemntFire	0.0100			Yes	1
Montane Sagebrush Steppe-Upland	U-B-SHAS	U-B-SHAS	Severe-Drought	0.0070	0.1000		Yes	
Montane Sagebrush Steppe-Upland	U-B-SHAS	U-B-SI	Competition	0.3330			No	3
Montane Sagebrush Steppe-Upland	U-B-SHAS	U-B-SHAS	Early-Spring-Cattle-Grazing-byYr	0.0542			No	
Montane Sagebrush Steppe-Upland	U-B-SHAS	U-B-SHAS	Fall-Cattle-Grazing-byYr	0.0069			No	
Montane Sagebrush Steppe-Upland	U-B-SHAS	U-B-SHAS	FeralHorse-Grazing	0.0170			2 No	
Montane Sagebrush Steppe-Upland	U-B-SHAS	U-B-SHAS	Late-Spring-Cattle-Grazing-byYr	0.0542			1 No	
Montane Sagebrush Steppe-Upland	U-B-SHAS	U-B-SHAS	Severe-Drought	0.0070	0.9000		Yes	
Montane Sagebrush Steppe-Upland	U-B-SHAS	U-B-SHAS	Summer-Cattle-Grazing-byYr	0.0069			No	
Montane Sagebrush Steppe-Upland	U-B-SHAS	U-B-SHAS	Web-Year	0.0670			No	
Montane Sagebrush Steppe-Upland	U-B-SHAS	U-B-SHAS	Wild-Horse-Grazing	0.0130			2 No	
Montane Sagebrush Steppe-Upland	U-B-SHAS	U-CSHAS-Dense	Alternate-Succession	0.0010		29	Yes	
Montane Sagebrush Steppe-Upland	U-B-SHAS	U-B-Unpalat. Forb	ReplacemntFire	0.0200			Yes	
Montane Sagebrush Steppe-Upland	U-C-Depleted	U-A-Annual Spp	ReplacemntFire	0.0200			Yes	

Montane Sagebrush Steppe-Upland	U-D-SAP-Dense	U-D-SAP-Dense	Fall-Cattle-Grazing-byYr	0.0069	0.9995	No
Montane Sagebrush Steppe-Upland	U-D-SAP-Dense	U-D-SAP-Dense	FeralHorse-Grazing	0.0170	0.9990	No
Montane Sagebrush Steppe-Upland	U-D-SAP-Dense	U-D-SAP-Dense	Late-Spring-Cattle-Grazing-byYr	0.0542	0.9990	1 No
Montane Sagebrush Steppe-Upland	U-D-SAP-Dense	U-D-SAP-Dense	Summer-Cattle-Grazing-byYr	0.0069	0.9995	No
Montane Sagebrush Steppe-Upland	U-D-SAP-Dense	U-D-SAP-Dense	Wild-Horse-Grazing	0.0170	0.9990	No
Montane Sagebrush Steppe-Upland	U-D-SI	D-Open	Natural-Recovery	0.1000		10 No
Montane Sagebrush Steppe-Upland	U-D-SI	U-A-SI	ReplacementFire	0.0050		Yes
Montane Sagebrush Steppe-Upland	U-D-SI	U-C-SI	Severe-Drought	0.0070	0.1000	Yes
Montane Sagebrush Steppe-Upland	U-D-SI	U-C-SHAS	AS-Invasion	0.0020		No
Montane Sagebrush Steppe-Upland	U-D-SI	U-D-SI	Early-Spring-Cattle-Grazing-byYr	0.0542		No
Montane Sagebrush Steppe-Upland	U-D-SI	U-D-SI	Fall-Cattle-Grazing-byYr	0.0069		No
Montane Sagebrush Steppe-Upland	U-D-SI	U-D-SI	FeralHorse-Grazing	0.0170		2 No
Montane Sagebrush Steppe-Upland	U-D-SI	U-D-SI	Late-Spring-Cattle-Grazing-byYr	0.0542		1 No
Montane Sagebrush Steppe-Upland	U-D-SI	U-D-SI	Severe-Drought	0.0070	0.9000	Yes
Montane Sagebrush Steppe-Upland	U-D-SI	U-D-SI	Summer-Cattle-Grazing-byYr	0.0069		No
Montane Sagebrush Steppe-Upland	U-D-SI	U-D-SI	Wild-Horse-Grazing	0.0170		2 No
Montane Sagebrush Steppe-Upland	U-D-SHAS	U-A-SHAS	ReplacementFire	0.0200		Yes
Montane Sagebrush Steppe-Upland	U-D-SHAS	U-C-SI	Competition	0.3330		No
Montane Sagebrush Steppe-Upland	U-D-SHAS	U-C-SHAS	Severe-Drought	0.0070	0.1000	Yes
Montane Sagebrush Steppe-Upland	U-D-SHAS	U-D-SHAS	Early-Spring-Cattle-Grazing-byYr	0.0542		No
Montane Sagebrush Steppe-Upland	U-D-SHAS	U-D-SHAS	Fall-Cattle-Grazing-byYr	0.0069		No
Montane Sagebrush Steppe-Upland	U-D-SHAS	U-D-SHAS	FeralHorse-Grazing	0.0170		2 No
Montane Sagebrush Steppe-Upland	U-D-SHAS	U-D-SHAS	Late-Spring-Cattle-Grazing-byYr	0.0542		1 No
Montane Sagebrush Steppe-Upland	U-D-SHAS	U-D-SHAS	Severe-Drought	0.0070	0.9000	Yes
Montane Sagebrush Steppe-Upland	U-D-SHAS	U-D-SHAS	Summer-Cattle-Grazing-byYr	0.0069		No
Montane Sagebrush Steppe-Upland	U-D-SHAS	U-D-SHAS	Wet-Year	0.0670		No
Montane Sagebrush Steppe-Upland	U-D-SHAS	U-D-SHAS	Wild-Horse-Grazing	0.0170		2 No
Montane Sagebrush Steppe-Upland	U-D-SHAS-Dense	U-A-SHAS	ReplacementFire	0.0100		Yes
Montane Sagebrush Steppe-Upland	U-D-SHAS-Dense	U-C-SHAS-Dense	Severe-Drought	0.0070	0.1000	Yes
Montane Sagebrush Steppe-Upland	U-D-SHAS-Dense	U-D-SHAS-Dense	Early-Spring-Cattle-Grazing-byYr	0.0542		No
Montane Sagebrush Steppe-Upland	U-D-SHAS-Dense	U-D-SHAS-Dense	Fall-Cattle-Grazing-byYr	0.0069		No
Montane Sagebrush Steppe-Upland	U-D-SHAS-Dense	U-D-SHAS-Dense	FeralHorse-Grazing	0.0170		2 No
Montane Sagebrush Steppe-Upland	U-D-SHAS-Dense	U-D-SHAS-Dense	Late-Spring-Cattle-Grazing-byYr	0.0542		1 No
Montane Sagebrush Steppe-Upland	U-D-SHAS-Dense	U-D-SHAS-Dense	Severe-Drought	0.0070	0.9000	Yes
Montane Sagebrush Steppe-Upland	U-D-SHAS-Dense	U-D-SHAS-Dense	Summer-Cattle-Grazing-byYr	0.0069		No
Montane Sagebrush Steppe-Upland	U-D-SHAS-Dense	U-D-SHAS-Dense	Wild-Horse-Grazing	0.0170		2 No
Montane Sagebrush Steppe-Upland	U-D-SHAS-Dense	U-D-SHAS-Dense	Wet-Year	0.0670		No
Montane Sagebrush Steppe-Upland	U-D-SI-Dense	U-C-Dense	Competition	0.3330		No
Montane Sagebrush Steppe-Upland	U-D-SI-Dense	C-Dense	Natural-Recovery	0.1000		10 No
Montane Sagebrush Steppe-Upland	U-D-SI-Dense	U-A-SI	ReplacementFire	0.0050		Yes
Montane Sagebrush Steppe-Upland	U-D-SI-Dense	U-C-SI-Dense	Severe-Drought	0.0070	0.1000	Yes
Montane Sagebrush Steppe-Upland	U-D-SI-Dense	U-D-SI-Dense	AS-Invasion	0.0020		No
Montane Sagebrush Steppe-Upland	U-D-SI-Dense	U-D-SI-Dense	Early-Spring-Cattle-Grazing-byYr	0.0542		No
Montane Sagebrush Steppe-Upland	U-D-SI-Dense	U-D-SI-Dense	Fall-Cattle-Grazing-byYr	0.0069		No
Montane Sagebrush Steppe-Upland	U-D-SI-Dense	U-D-SI-Dense	FeralHorse-Grazing	0.0170		2 No
Montane Sagebrush Steppe-Upland	U-D-SI-Dense	U-D-SI-Dense	Late-Spring-Cattle-Grazing-byYr	0.0542		1 No
Montane Sagebrush Steppe-Upland	U-D-SI-Dense	U-D-SI-Dense	Severe-Drought	0.0070	0.9000	Yes
Montane Sagebrush Steppe-Upland	U-D-SI-Dense	U-D-SI-Dense	Summer-Cattle-Grazing-byYr	0.0069		No
Montane Sagebrush Steppe-Upland	U-D-SI-Dense	U-D-SI-Dense	Wild-Horse-Grazing	0.0170		2 No
Montane Sagebrush Steppe-Upland	U-D-SI-Dense	U-D-SI-Dense	Wet-Year	0.0670		No
Montane Sagebrush Steppe-Upland	U-E-TEA	U-A-Annual Spp	ReplacementFire	0.0200		Yes
Montane Sagebrush Steppe-Upland	U-E-TEA	U-A-Annual Spp	AerialSeed-Masticates+Plateau	0.0100	0.1000	Yes
Montane Sagebrush Steppe-Upland	U-E-TEA	U-A-Annual Spp	Severe-Drought	0.0070	0.1000	Yes
Montane Sagebrush Steppe-Upland	U-E-TEA	U-A-SI	AerialSeed-Masticates+Plateau	0.0100	0.8000	Yes
Montane Sagebrush Steppe-Upland	U-E-TEA	U-A-SHAS	AerialSeed-Masticates+Plateau	0.0100	0.1000	Yes
Montane Sagebrush Steppe-Upland	U-E-TEA	U-E-TEA	Severe-Drought	0.0070	0.9000	Yes
Montane Sagebrush Steppe-Upland	U-E-Upland, Forb	U-A-Upland, Forb	ReplacementFire	0.0085		Yes
Mountain Shrub	A-All	A-All	Early-Spring-Cattle-Grazing-byYr	0.0542	0.0005	3 No
Mountain Shrub	A-All	A-All	Early-Spring-Cattle-Grazing-byYr	0.0542	0.9990	3 No
Mountain Shrub	A-All	A-All	Fall-Cattle-Grazing-byYr	0.0069	0.0005	3 Yes
Mountain Shrub	A-All	A-All	Fall-Cattle-Grazing-byYr	0.0069	0.9990	3 No
Mountain Shrub	A-All	A-All	FeralHorse-Grazing	0.0220	0.0005	2 No
Mountain Shrub	A-All	A-All	FeralHorse-Grazing	0.0220	0.9990	Yes
Mountain Shrub	A-All	A-All	Late-Spring-Cattle-Grazing-byYr	0.0542	0.0005	3 1 No
Mountain Shrub	A-All	A-All	Late-Spring-Cattle-Grazing-byYr	0.0542	0.9990	3 Yes
Mountain Shrub	A-All	A-All	Natural-Recovery	0.1000		Yes
Mountain Shrub	A-All	A-All	ReplacementFire	0.0125		Yes
Mountain Shrub	A-All	A-All	Severe-Drought	0.0070		Yes
Mountain Shrub	A-All	A-All	Summer-Cattle-Grazing-byYr	0.0069	0.0005	3 No
Mountain Shrub	A-All	A-All	Summer-Cattle-Grazing-byYr	0.0069	0.9990	3 Yes
Mountain Shrub	A-All	A-All	Wild-Horse-Grazing	0.0220	0.0005	Yes
Mountain Shrub	A-All	A-All	Wild-Horse-Grazing	0.0220	0.9990	2 No
Mountain Shrub	A-All	U-A-Bare Ground	FeralHorse-Grazing	0.0220	0.0005	Yes
Mountain Shrub	A-All	U-A-Bare Ground	Late-Spring-Cattle-Grazing-byYr	0.0542	0.9990	3 Yes
Mountain Shrub	A-All	U-A-Bare Ground	Wild-Horse-Grazing	0.0220	0.0005	Yes
Mountain Shrub	A-All	U-ASAP	AS-Invasion	0.0025		No
Mountain Shrub	B-Closed	A-All	Early-Spring-Cattle-Grazing-byYr	0.0542	0.0005	Yes
Mountain Shrub	B-Closed	A-All	Fall-Cattle-Grazing-byYr	0.0069	0.9990	Yes
Mountain Shrub	B-Closed	A-All	ReplacementFire	0.0200		Yes
Mountain Shrub	B-Closed	A-All	Severe-Drought	0.0070	0.1000	Yes
Mountain Shrub	B-Closed	A-All	Summer-Cattle-Grazing-byYr	0.0069	0.0005	Yes
Mountain Shrub	B-Closed	B-Closed	Early-Spring-Cattle-Grazing-byYr	0.0542	0.9990	No
Mountain Shrub	B-Closed	B-Closed	Fall-Cattle-Grazing-byYr	0.0069	0.0005	No
Mountain Shrub	B-Closed	B-Closed	FeralHorse-Grazing	0.0220	0.0005	2 No
Mountain Shrub	B-Closed	B-Closed	Late-Spring-Cattle-Grazing-byYr	0.0542	0.9990	1 No
Mountain Shrub	B-Closed	B-Closed	Natural-Recovery	0.1000		-1 No
Mountain Shrub	B-Closed	B-Closed	Severe-Drought	0.0070	0.9000	Yes
Mountain Shrub	B-Closed	B-Closed	Summer-Cattle-Grazing-byYr	0.0069	0.0005	No
Mountain Shrub	B-Closed	B-Closed	Wild-Horse-Grazing	0.0220	0.9990	2 No
Mountain Shrub	B-Closed	U-A-Bare Ground	FeralHorse-Grazing	0.0220	0.0005	Yes
Mountain Shrub	B-Closed	U-A-Bare Ground	Late-Spring-Cattle-Grazing-byYr	0.0542	0.9990	Yes
Mountain Shrub	B-Closed	U-A-Bare Ground	Wild-Horse-Grazing	0.0220	0.0005	Yes
Mountain Shrub	B-Closed	U-B-Depleted	FeralHorse-Grazing	0.0220	0.9990	2 No
Mountain Shrub	B-Closed	U-B-Depleted	Late-Spring-Cattle-Grazing-byYr	0.0542	0.0005	1 No
Mountain Shrub	B-Closed	U-B-Depleted	Wild-Horse-Grazing	0.0220	0.9990	2 No
Mountain Shrub	B-Closed	U-B-SAP	AS-Invasion	0.0025		No
Mountain Shrub	C-Open	A-All	Early-Spring-Cattle-Grazing-byYr	0.0542	0.9990	Yes
Mountain Shrub	C-Open	A-All	Fall-Cattle-Grazing-byYr	0.0069	0.0005	Yes
Mountain Shrub	C-Open	A-All	FeralHorse-Grazing	0.0220	0.9990	Yes
Mountain Shrub	C-Open	A-All	Late-Spring-Cattle-Grazing-byYr	0.0542	0.0005	Yes
Mountain Shrub	C-Open	A-All	ReplacementFire	0.0250		Yes
Mountain Shrub	C-Open	A-All	Summer-Cattle-Grazing-byYr	0.0069	0.9990	Yes
Mountain Shrub	C-Open	A-All	Wild-Horse-Grazing	0.0220	0.0005	Yes
Mountain Shrub	C-Open	B-Closed	Severe-Drought	0.0070	0.1000	Yes
Mountain Shrub	C-Open	B-Closed	Small-Tree-Lopping	0.0100		13 Yes
Mountain Shrub	C-Open	C-Open	Early-Spring-Cattle-Grazing-byYr	0.0542	0.9990	No
Mountain Shrub	C-Open	C-Open	Fall-Cattle-Grazing-byYr	0.0069	0.0005	No
Mountain Shrub	C-Open	C-Open	FeralHorse-Grazing	0.0220	0.9990	2 No
Mountain Shrub	C-Open	C-Open	Late-Spring-Cattle-Grazing-byYr	0.0542	0.0005	1 No
Mountain Shrub	C-Open	C-Open	Natural-Recovery	0.1000		No
Mountain Shrub	C-Open	C-Open	Severe-Drought	0.0070	0.9000	Yes
Mountain Shrub	C-Open	C-Open	Summer-Cattle-Grazing-byYr	0.0069	0.0005	No
Mountain Shrub	C-Open	C-Open	Wild-Horse-Grazing	0.0220	0.9990	2 No
Mountain Shrub	C-Open	D-Open	Tree-Invasion	0.0080		79 No
Mountain Shrub	C-Open	U-C-Depleted	FeralHorse-Grazing	0.0220	0.9990	2 No
Mountain Shrub	C-Open	U-C-Depleted	Late-Spring-Cattle-Grazing-byYr	0.0542	0.0005	1 No
Mountain Shrub	C-Open	U-C-Depleted	Wild-Horse-Grazing	0.0220	0.0005	2 No
Mountain Shrub	C-Open	U-CSAP	AS-Invasion	0.0025		No

Mountain Shrub	D:Open	A:All	ReplacementFire	0.0200			Yes
Mountain Shrub	D:Open	B:Closed	Medicote+NativeSeed	0.0000	0.2000		Yes
Mountain Shrub	D:Open	B:Closed	SevereDrought	0.0070	0.1000		Yes
Mountain Shrub	D:Open	C:Open	ChainawThinning	0.0100			Yes
Mountain Shrub	D:Open	C:Open	Medicote+NativeSeed	0.0000	0.8000		Yes
Mountain Shrub	D:Open	D:Open	EarlySpring-Cattle-Grazing-byYr	0.0542	0.9990		No
Mountain Shrub	D:Open	D:Open	Fall-Cattle-Grazing-byYr	0.0069	0.0005		No
Mountain Shrub	D:Open	D:Open	FeralHorse-Grazing	0.0220	0.9990		2 No
Mountain Shrub	D:Open	D:Open	LateSpring-Cattle-Grazing-byYr	0.0542	0.0005		1 No
Mountain Shrub	D:Open	D:Open	NativeGrazing	0.0200			No
Mountain Shrub	D:Open	D:Open	SevereDrought	0.0070	0.9000		5 No
Mountain Shrub	D:Open	D:Open	Summer-Cattle-Grazing-byYr	0.0069	0.0005		No
Mountain Shrub	D:Open	D:Open	WildHorse-Grazing	0.0220	0.9990		2 No
Mountain Shrub	D:Open	U-D:TEA	AS-Invasion	0.0025			No
Mountain Shrub	D:Open	U-D:TEA	EarlySpring-Cattle-Grazing-byYr	0.0542	0.9990		No
Mountain Shrub	D:Open	U-D:TEA	Fall-Cattle-Grazing-byYr	0.0069	0.0005		No
Mountain Shrub	D:Open	U-D:TEA	FeralHorse-Grazing	0.0220	0.9990		2 No
Mountain Shrub	D:Open	U-D:TEA	LateSpring-Cattle-Grazing-byYr	0.0542	0.0005		1 No
Mountain Shrub	D:Open	U-D:TEA	Summer-Cattle-Grazing-byYr	0.0069	0.0005		No
Mountain Shrub	D:Open	U-D:TEA	TreeEncroachment	0.0200		250	No
Mountain Shrub	D:Open	U-D:TEA	WildHorse-Grazing	0.0220	0.0005		2 No
Mountain Shrub	U-A:Bare Ground	U-A:Early Shrub	AlternateSuccession	0.0542		3	Yes
Mountain Shrub	U-A:Bare Ground	U-A:Exotic Forbs	ExoticInvasion	0.0005			Yes
Mountain Shrub	U-A:Bare Ground	U-A:SAP	AS-Invasion	0.0050			Yes
Mountain Shrub	U-A:Early Shrub	U-A:Early Shrub	ReplacementFire	0.0200			Yes
Mountain Shrub	U-A:Early Shrub	U-A:Exotic Forbs	ExoticInvasion	0.0005			Yes
Mountain Shrub	U-A:Exotic Forbs	A:All	ExoticControl	0.0100	0.8000		Yes
Mountain Shrub	U-A:Exotic Forbs	U-A:Exotic Forbs	EarlySpring-Cattle-Grazing-byYr	0.0542	0.9990		No
Mountain Shrub	U-A:Exotic Forbs	U-A:Exotic Forbs	ExoticControl	0.0100	0.2000		Yes
Mountain Shrub	U-A:Exotic Forbs	U-A:Exotic Forbs	Fall-Cattle-Grazing-byYr	0.0069	0.9990		No
Mountain Shrub	U-A:Exotic Forbs	U-A:Exotic Forbs	FeralHorse-Grazing	0.0220	0.9990		2 No
Mountain Shrub	U-A:Exotic Forbs	U-A:Exotic Forbs	LateSpring-Cattle-Grazing-byYr	0.0542	0.0005		1 No
Mountain Shrub	U-A:Exotic Forbs	U-A:Exotic Forbs	ReplacementFire	0.0200			Yes
Mountain Shrub	U-A:Exotic Forbs	U-A:Exotic Forbs	Summer-Cattle-Grazing-byYr	0.0069	0.9990		2 No
Mountain Shrub	U-A:Exotic Forbs	U-A:Exotic Forbs	WildHorse-Grazing	0.0220	0.0005		Yes
Mountain Shrub	U-A:SAP	U-A:Exotic Forbs	ExoticInvasion	0.0005			No
Mountain Shrub	U-A:SAP	U-A:SAP	EarlySpring-Cattle-Grazing-byYr	0.0542	0.0005	3	No
Mountain Shrub	U-A:SAP	U-A:SAP	EarlySpring-Cattle-Grazing-byYr	0.0542	0.9990	3	Yes
Mountain Shrub	U-A:SAP	U-A:SAP	Fall-Cattle-Grazing-byYr	0.0069	0.0005	3	No
Mountain Shrub	U-A:SAP	U-A:SAP	Fall-Cattle-Grazing-byYr	0.0069	0.9990	3	Yes
Mountain Shrub	U-A:SAP	U-A:SAP	FeralHorse-Grazing	0.0220	0.0005		2 No
Mountain Shrub	U-A:SAP	U-A:SAP	FeralHorse-Grazing	0.0220	0.9990		2 No
Mountain Shrub	U-A:SAP	U-A:SAP	LateSpring-Cattle-Grazing-byYr	0.0542	0.0005	3	Yes
Mountain Shrub	U-A:SAP	U-A:SAP	LateSpring-Cattle-Grazing-byYr	0.0542	0.9990	3	1 No
Mountain Shrub	U-A:SAP	U-A:SAP	NativeGrazing	0.0200			Yes
Mountain Shrub	U-A:SAP	U-A:SAP	ReplacementFire	0.0400			1 Yes
Mountain Shrub	U-A:SAP	U-A:SAP	SevereDrought	0.0070			Yes
Mountain Shrub	U-A:SAP	U-A:SAP	Summer-Cattle-Grazing-byYr	0.0069	0.0005	3	Yes
Mountain Shrub	U-A:SAP	U-A:SAP	Summer-Cattle-Grazing-byYr	0.0069	0.9990	3	No
Mountain Shrub	U-A:SAP	U-A:SAP	WildHorse-Grazing	0.0220	0.0005		Yes
Mountain Shrub	U-A:SAP	U-A:SAP	WildHorse-Grazing	0.0220	0.9990		Yes
Mountain Shrub	U-A:SI	U-A:Early Shrub	FeralHorse-Grazing	0.0220	0.9990		2 Yes
Mountain Shrub	U-A:SI	U-A:Early Shrub	SevereDrought	0.0070		1	2 Yes
Mountain Shrub	U-A:SI	U-A:Early Shrub	WildHorse-Grazing	0.0220	0.9990		2 Yes
Mountain Shrub	U-A:SI	U-A:SI	EarlySpring-Cattle-Grazing-byYr	0.0542	0.0005	3	No
Mountain Shrub	U-A:SI	U-A:SI	Fall-Cattle-Grazing-byYr	0.0069	0.9990	3	No
Mountain Shrub	U-A:SI	U-A:SI	FeralHorse-Grazing	0.0220	0.0005	3	2 No
Mountain Shrub	U-A:SI	U-A:SI	LateSpring-Cattle-Grazing-byYr	0.0542	0.9990	3	1 No
Mountain Shrub	U-A:SI	U-A:SI	NativeGrazing	0.0200			Yes
Mountain Shrub	U-A:SI	U-A:SI	ReplacementFire	0.0400			Yes
Mountain Shrub	U-A:SI	U-A:SI	SevereDrought	0.0070	0.1000	3	Yes
Mountain Shrub	U-A:SI	U-A:SI	SevereDrought	0.0070	0.9000	3	-1 No
Mountain Shrub	U-A:SI	U-A:SI	Summer-Cattle-Grazing-byYr	0.0069	0.0005	3	No
Mountain Shrub	U-A:SI	U-A:SI	WildHorse-Grazing	0.0220	0.9990	3	2 No
Mountain Shrub	U-A:SI	U-A:SHAS	AS-Invasion	0.0010			No
Mountain Shrub	U-A:SHAS	U-A:SAP	FeralHorse-Grazing	0.0220	0.9990	1	2 Yes
Mountain Shrub	U-A:SHAS	U-A:SAP	SevereDrought	0.0070		1	2 Yes
Mountain Shrub	U-A:SHAS	U-A:SAP	WildHorse-Grazing	0.0220	0.9990	1	2 Yes
Mountain Shrub	U-A:SHAS	U-A:SI	Competition	0.3830			3 No
Mountain Shrub	U-A:SHAS	U-A:SHAS	EarlySpring-Cattle-Grazing-byYr	0.0542	0.9990	3	Yes
Mountain Shrub	U-A:SHAS	U-A:SHAS	Fall-Cattle-Grazing-byYr	0.0069	0.0005	3	No
Mountain Shrub	U-A:SHAS	U-A:SHAS	FeralHorse-Grazing	0.0220	0.0005	3	2 No
Mountain Shrub	U-A:SHAS	U-A:SHAS	FeralHorse-Grazing	0.0220	0.9990	3	No
Mountain Shrub	U-A:SHAS	U-A:SHAS	LateSpring-Cattle-Grazing-byYr	0.0542	0.9990	3	1 No
Mountain Shrub	U-A:SHAS	U-A:SHAS	NativeGrazing	0.0200			Yes
Mountain Shrub	U-A:SHAS	U-A:SHAS	ReplacementFire	0.0100			1 Yes
Mountain Shrub	U-A:SHAS	U-A:SHAS	SevereDrought	0.0070	0.1000	3	Yes
Mountain Shrub	U-A:SHAS	U-A:SHAS	SevereDrought	0.0070	0.9000	3	-1 No
Mountain Shrub	U-A:SHAS	U-A:SHAS	Summer-Cattle-Grazing-byYr	0.0069	0.0005	3	No
Mountain Shrub	U-A:SHAS	U-A:SHAS	WetYear	0.0670			No
Mountain Shrub	U-A:SHAS	U-A:SHAS	WildHorse-Grazing	0.0220	0.0005	3	2 No
Mountain Shrub	U-A:Unplanted Forb	U-A:Unplanted Forb	ReplacementFire	0.0200			Yes
Mountain Shrub	U-B:Depleted	U-A:Early Shrub	ReplacementFire	0.1200			Yes
Mountain Shrub	U-B:Depleted	U-A:Early Shrub	SevereDrought	0.0070	0.1000		Yes
Mountain Shrub	U-B:Depleted	U-B:Depleted	NativeGrazing	0.0200			-1 No
Mountain Shrub	U-B:Depleted	U-B:Depleted	SevereDrought	0.0070	0.9000		Yes
Mountain Shrub	U-B:Depleted	U-B:Exotic Forbs	ExoticInvasion	0.0005			Yes
Mountain Shrub	U-B:Depleted	U-B:SAP	AS-Invasion	0.0050			No
Mountain Shrub	U-B:Early Shrub	U-A:Early Shrub	ReplacementFire	0.0200			Yes
Mountain Shrub	U-B:Early Shrub	U-B:Early Shrub	ExoticInvasion	0.0005			Yes
Mountain Shrub	U-B:Exotic Forbs	B:Closed	ExoticControl	0.0100	0.8000		Yes
Mountain Shrub	U-B:Exotic Forbs	U-A:Exotic Forbs	ExoticControl	0.0100	0.2000		Yes
Mountain Shrub	U-B:Exotic Forbs	U-B:Exotic Forbs	ReplacementFire	0.0200	0.7500		Yes
Mountain Shrub	U-B:Exotic Forbs	U-A:SAP	ReplacementFire	0.0200	0.2500		Yes
Mountain Shrub	U-B:Exotic Forbs	U-B:Exotic Forbs	EarlySpring-Cattle-Grazing-byYr	0.0542	0.9990		No
Mountain Shrub	U-B:Exotic Forbs	U-B:Exotic Forbs	Fall-Cattle-Grazing-byYr	0.0069	0.0005		No
Mountain Shrub	U-B:Exotic Forbs	U-B:Exotic Forbs	FeralHorse-Grazing	0.0200	0.9990		2 No
Mountain Shrub	U-B:Exotic Forbs	U-B:Exotic Forbs	LateSpring-Cattle-Grazing-byYr	0.0542	0.0005		1 No
Mountain Shrub	U-B:Exotic Forbs	U-B:Exotic Forbs	Summer-Cattle-Grazing-byYr	0.0069	0.0005		No
Mountain Shrub	U-B:Exotic Forbs	U-B:Exotic Forbs	WildHorse-Grazing	0.0200	0.9990		2 No
Mountain Shrub	U-B:SAP	U-A:SAP	EarlySpring-Cattle-Grazing-byYr	0.0542	0.0005		Yes
Mountain Shrub	U-B:SAP	U-A:SAP	Fall-Cattle-Grazing-byYr	0.0069	0.9990		Yes
Mountain Shrub	U-B:SAP	U-A:SAP	FeralHorse-Grazing	0.0220	0.0005		Yes
Mountain Shrub	U-B:SAP	U-A:SAP	LateSpring-Cattle-Grazing-byYr	0.0542	0.9990		Yes
Mountain Shrub	U-B:SAP	U-A:SAP	ReplacementFire	0.0400			1 Yes
Mountain Shrub	U-B:SAP	U-A:SAP	SevereDrought	0.0070	0.1000		Yes
Mountain Shrub	U-B:SAP	U-A:SAP	Summer-Cattle-Grazing-byYr	0.0069	0.9990		Yes
Mountain Shrub	U-B:SAP	U-A:SAP	WildHorse-Grazing	0.0220	0.0005		Yes
Mountain Shrub	U-B:SAP	U-B:Exotic Forbs	ExoticInvasion	0.0005			No
Mountain Shrub	U-B:SAP	U-B:SAP	EarlySpring-Cattle-Grazing-byYr	0.0542	0.0005		No
Mountain Shrub	U-B:SAP	U-B:SAP	Fall-Cattle-Grazing-byYr	0.0069	0.9990		No
Mountain Shrub	U-B:SAP	U-B:SAP	FeralHorse-Grazing	0.0220	0.0005		2 No
Mountain Shrub	U-B:SAP	U-B:SAP	LateSpring-Cattle-Grazing-byYr	0.0542	0.9990		1 No
Mountain Shrub	U-B:SAP	U-B:SAP	NativeGrazing	0.0200			-1 No
Mountain Shrub	U-B:SAP	U-B:SAP	SevereDrought	0.0070	0.9000		Yes
Mountain Shrub	U-B:SAP	U-B:SAP	Summer-Cattle-Grazing-byYr	0.0069	0.9990		2 No
Mountain Shrub	U-B:SAP	U-B:SAP	WildHorse-Grazing	0.0220	0.0005		2 No
Mountain Shrub	U-B:SI	B:Closed	NaturalRecovery	0.0010			No

Mountain Shrub	U-B-SI	U-A-SI	ReplacementFire	0.0050		Yes
Mountain Shrub	U-B-SI	U-A-SI	Severe-Drought	0.0070	0.1000	Yes
Mountain Shrub	U-B-SI	U-B-SI	Early-Spring-Cattle-Grazing-byYr	0.0542	0.0005	No
Mountain Shrub	U-B-SI	U-B-SI	Fall-Cattle-Grazing-byYr	0.0069	0.9990	No
Mountain Shrub	U-B-SI	U-B-SI	FeralHorse-Grazing	0.0220	0.0005	2 No
Mountain Shrub	U-B-SI	U-B-SI	Late-Spring-Cattle-Grazing-byYr	0.0542	0.9990	1 No
Mountain Shrub	U-B-SI	U-B-SI	NativeGrazing	0.0200		-1 No
Mountain Shrub	U-B-SI	U-B-SI	Severe-Drought	0.0070	0.9000	Yes
Mountain Shrub	U-B-SI	U-B-SI	Summer-Cattle-Grazing-byYr	0.0069	0.0005	No
Mountain Shrub	U-B-SI	U-B-SI	Wild-Horse-Grazing	0.0220	0.9990	2 No
Mountain Shrub	U-B-SI	U-B-SHAS	AS-Invasion	0.0010		No
Mountain Shrub	U-B-SHAS	U-A-SHAS	ReplacementFire	0.0100		Yes
Mountain Shrub	U-B-SHAS	U-A-SHAS	Severe-Drought	0.0070	0.1000	Yes
Mountain Shrub	U-B-SHAS	U-B-SI	Competition	0.3330		No
Mountain Shrub	U-B-SHAS	U-B-SHAS	Early-Spring-Cattle-Grazing-byYr	0.0542	0.0005	No
Mountain Shrub	U-B-SHAS	U-B-SHAS	Fall-Cattle-Grazing-byYr	0.0069	0.9990	No
Mountain Shrub	U-B-SHAS	U-B-SHAS	FeralHorse-Grazing	0.0220	0.0005	2 No
Mountain Shrub	U-B-SHAS	U-B-SHAS	Late-Spring-Cattle-Grazing-byYr	0.0542	0.9990	1 No
Mountain Shrub	U-B-SHAS	U-B-SHAS	NativeGrazing	0.0200		-1 No
Mountain Shrub	U-B-SHAS	U-B-SHAS	Severe-Drought	0.0070	0.9000	Yes
Mountain Shrub	U-B-SHAS	U-B-SHAS	Summer-Cattle-Grazing-byYr	0.0069	0.0005	No
Mountain Shrub	U-B-SHAS	U-B-SHAS	Web-Year	0.0670		No
Mountain Shrub	U-B-SHAS	U-B-SHAS	Wild-Horse-Grazing	0.0220	0.0005	2 No
Mountain Shrub	U-B-Unpalat. Forb	U-A-Unpalat. Forb	ReplacementFire	0.0200		Yes
Mountain Shrub	U-C-Depleted	U-C-Early Shrub	ReplacementFire	0.0200		Yes
Mountain Shrub	U-C-Depleted	U-C-Depleted	Severe-Drought	0.0070	0.1000	Yes
Mountain Shrub	U-C-Depleted	U-C-Depleted	Small-Tree-Lopping	0.0100		13 Yes
Mountain Shrub	U-C-Depleted	U-C-Depleted	NativeGrazing	0.0200		-1 No
Mountain Shrub	U-C-Depleted	U-C-Depleted	Severe-Drought	0.0070	0.9000	Yes
Mountain Shrub	U-C-Depleted	U-C-Exotic Forbs	Exotic-Invasion	0.0005		Yes
Mountain Shrub	U-C-Depleted	U-CSAP	AS-Invasion	0.0050		No
Mountain Shrub	U-C-Depleted	U-D-TEA	Tree-Invasion	0.0080	79	Yes
Mountain Shrub	U-C-Early Shrub	U-C-Early Shrub	ReplacementFire	0.0200		Yes
Mountain Shrub	U-C-Early Shrub	U-C-Early Shrub	Exotic-Invasion	0.0005		Yes
Mountain Shrub	U-C-Early Shrub	U-D-TEA	Tree-Invasion	0.0080	79	Yes
Mountain Shrub	U-C-Exotic Forbs	C-Open	Exotic- Control	0.0100	0.8000	Yes
Mountain Shrub	U-C-Exotic Forbs	U-A-Exotic Forbs	Exotic- Control	0.0100	0.2000	Yes
Mountain Shrub	U-C-Exotic Forbs	U-A-Exotic Forbs	ReplacementFire	0.0200	0.7500	Yes
Mountain Shrub	U-C-Exotic Forbs	U-A-SAP	ReplacementFire	0.0200	0.2500	Yes
Mountain Shrub	U-C-Exotic Forbs	U-C-Exotic Forbs	Early-Spring-Cattle-Grazing-byYr	0.0542	0.0005	No
Mountain Shrub	U-C-Exotic Forbs	U-C-Exotic Forbs	Fall-Cattle-Grazing-byYr	0.0069	0.9990	No
Mountain Shrub	U-C-Exotic Forbs	U-C-Exotic Forbs	FeralHorse-Grazing	0.0220	0.0005	2 No
Mountain Shrub	U-C-Exotic Forbs	U-C-Exotic Forbs	Late-Spring-Cattle-Grazing-byYr	0.0542	0.9990	1 No
Mountain Shrub	U-C-Exotic Forbs	U-C-Exotic Forbs	Summer-Cattle-Grazing-byYr	0.0069	0.9990	No
Mountain Shrub	U-C-Exotic Forbs	U-C-Exotic Forbs	Wild-Horse-Grazing	0.0200	0.0005	2 No
Mountain Shrub	U-CSAP	U-A-SAP	Early-Spring-Cattle-Grazing-byYr	0.0542	0.9990	Yes
Mountain Shrub	U-CSAP	U-A-SAP	Fall-Cattle-Grazing-byYr	0.0069	0.9990	Yes
Mountain Shrub	U-CSAP	U-A-SAP	FeralHorse-Grazing	0.0220	0.9990	Yes
Mountain Shrub	U-CSAP	U-A-SAP	Late-Spring-Cattle-Grazing-byYr	0.0542	0.0005	Yes
Mountain Shrub	U-CSAP	U-A-SAP	ReplacementFire	0.0400		Yes
Mountain Shrub	U-CSAP	U-A-SAP	Summer-Cattle-Grazing-byYr	0.0069	0.0005	Yes
Mountain Shrub	U-CSAP	U-A-SAP	Wild-Horse-Grazing	0.0220	0.9990	Yes
Mountain Shrub	U-CSAP	U-B-SAP	Severe-Drought	0.0070	0.1000	Yes
Mountain Shrub	U-CSAP	U-B-SAP	Small-Tree-Lopping	0.0100		13 Yes
Mountain Shrub	U-CSAP	U-C-Exotic Forbs	Exotic-Invasion	0.0005		No
Mountain Shrub	U-CSAP	U-CSAP	Early-Spring-Cattle-Grazing-byYr	0.0542	0.9990	No
Mountain Shrub	U-CSAP	U-CSAP	Fall-Cattle-Grazing-byYr	0.0069	0.0005	No
Mountain Shrub	U-CSAP	U-CSAP	FeralHorse-Grazing	0.0220	0.9990	No
Mountain Shrub	U-CSAP	U-CSAP	Late-Spring-Cattle-Grazing-byYr	0.0542	0.0005	1 No
Mountain Shrub	U-CSAP	U-CSAP	Severe-Drought	0.0070	0.9000	Yes
Mountain Shrub	U-CSAP	U-CSAP	Summer-Cattle-Grazing-byYr	0.0069	0.0005	No
Mountain Shrub	U-CSAP	U-CSAP	Wild-Horse-Grazing	0.0220	0.9990	2 No
Mountain Shrub	U-CSAP	U-D-TEA	Tree-Invasion	0.0080	79	Yes
Mountain Shrub	U-CSI	C-Open	Natural-Recovery	0.0100		No
Mountain Shrub	U-CSI	U-A-SI	ReplacementFire	0.0050		Yes
Mountain Shrub	U-CSI	U-B-SI	Severe-Drought	0.0070	0.1000	Yes
Mountain Shrub	U-CSI	U-CSI	Early-Spring-Cattle-Grazing-byYr	0.0542	0.0005	No
Mountain Shrub	U-CSI	U-CSI	Fall-Cattle-Grazing-byYr	0.0069	0.9990	No
Mountain Shrub	U-CSI	U-CSI	FeralHorse-Grazing	0.0220	0.0005	2 No
Mountain Shrub	U-CSI	U-CSI	Late-Spring-Cattle-Grazing-byYr	0.0542	0.9990	1 No
Mountain Shrub	U-CSI	U-CSI	NativeGrazing	0.0200		No
Mountain Shrub	U-CSI	U-CSI	Severe-Drought	0.0070	0.9000	Yes
Mountain Shrub	U-CSI	U-CSI	Summer-Cattle-Grazing-byYr	0.0069	0.0005	No
Mountain Shrub	U-CSI	U-CSI	Wild-Horse-Grazing	0.0220	0.9990	2 No
Mountain Shrub	U-CSI	U-CSHAS	AS-Invasion	0.0010		No
Mountain Shrub	U-CSI	U-DSI	Tree-Invasion	0.0080	79	Yes
Mountain Shrub	U-CSHAS	U-A-SHAS	ReplacementFire	0.0100		Yes
Mountain Shrub	U-CSHAS	U-B-SHAS	Severe-Drought	0.0070	0.1000	Yes
Mountain Shrub	U-CSHAS	U-CSI	Competition	0.3330		No
Mountain Shrub	U-CSHAS	U-CSHAS	Early-Spring-Cattle-Grazing-byYr	0.0542	0.9990	No
Mountain Shrub	U-CSHAS	U-CSHAS	Fall-Cattle-Grazing-byYr	0.0069	0.0005	No
Mountain Shrub	U-CSHAS	U-CSHAS	FeralHorse-Grazing	0.0220	0.9990	2 No
Mountain Shrub	U-CSHAS	U-CSHAS	Late-Spring-Cattle-Grazing-byYr	0.0542	0.0005	1 No
Mountain Shrub	U-CSHAS	U-CSHAS	NativeGrazing	0.0200		No
Mountain Shrub	U-CSHAS	U-CSHAS	Severe-Drought	0.0070	0.9000	Yes
Mountain Shrub	U-CSHAS	U-CSHAS	Summer-Cattle-Grazing-byYr	0.0069	0.9990	Yes
Mountain Shrub	U-CSHAS	U-CSHAS	Web-Year	0.0670		No
Mountain Shrub	U-CSHAS	U-CSHAS	Wild-Horse-Grazing	0.0220	0.9990	2 No
Mountain Shrub	U-CSHAS	U-DSHAS	Tree-Invasion	0.0080	79	Yes
Mountain Shrub	U-DSHAS	U-A-Unpalat. Forb	ReplacementFire	0.0200		Yes
Mountain Shrub	U-C-Unpalat. Forb	U-D-Unpalat. Forb	Tree-Invasion	0.0080	79	Yes
Mountain Shrub	U-D-SI	D-Open	Natural-Recovery	0.0100		No
Mountain Shrub	U-D-SI	U-A-SI	ReplacementFire	0.0050		Yes
Mountain Shrub	U-D-SI	U-B-SI	Severe-Drought	0.0070	0.1000	Yes
Mountain Shrub	U-D-SI	U-CSHAS	AS-Invasion	0.0010		No
Mountain Shrub	U-D-SI	U-D-SI	Early-Spring-Cattle-Grazing-byYr	0.0542	0.0005	No
Mountain Shrub	U-D-SI	U-D-SI	Fall-Cattle-Grazing-byYr	0.0069	0.9990	No
Mountain Shrub	U-D-SI	U-D-SI	FeralHorse-Grazing	0.0220	0.0005	2 No
Mountain Shrub	U-D-SI	U-D-SI	Late-Spring-Cattle-Grazing-byYr	0.0542	0.9990	1 No
Mountain Shrub	U-D-SI	U-D-SI	NativeGrazing	0.0200		No
Mountain Shrub	U-D-SI	U-D-SI	Severe-Drought	0.0070	0.9000	Yes
Mountain Shrub	U-D-SI	U-D-SI	Summer-Cattle-Grazing-byYr	0.0069	0.0005	No
Mountain Shrub	U-D-SI	U-D-SI	Wild-Horse-Grazing	0.0220	0.9990	2 No
Mountain Shrub	U-D-SHAS	U-A-SHAS	ReplacementFire	0.0100		Yes
Mountain Shrub	U-D-SHAS	U-B-SHAS	Severe-Drought	0.0070	0.1000	Yes
Mountain Shrub	U-D-SHAS	U-CSI	Competition	0.3330		No
Mountain Shrub	U-D-SHAS	U-D-SHAS	Early-Spring-Cattle-Grazing-byYr	0.0542	0.9990	No
Mountain Shrub	U-D-SHAS	U-D-SHAS	Fall-Cattle-Grazing-byYr	0.0069	0.0005	No
Mountain Shrub	U-D-SHAS	U-D-SHAS	FeralHorse-Grazing	0.0220	0.9990	2 No
Mountain Shrub	U-D-SHAS	U-D-SHAS	Late-Spring-Cattle-Grazing-byYr	0.0542	0.0005	1 No
Mountain Shrub	U-D-SHAS	U-D-SHAS	NativeGrazing	0.0200		No
Mountain Shrub	U-D-SHAS	U-D-SHAS	Severe-Drought	0.0070	0.9000	Yes
Mountain Shrub	U-D-SHAS	U-D-SHAS	Summer-Cattle-Grazing-byYr	0.0069	0.9990	No
Mountain Shrub	U-D-SHAS	U-D-SHAS	Web-Year	0.0670		No
Mountain Shrub	U-D-SHAS	U-D-SHAS	Wild-Horse-Grazing	0.0220	0.9990	2 No
Mountain Shrub	U-D-TEA	U-A-Early Shrub	Insect/Disease	0.0157	0.5000	Yes
Mountain Shrub	U-D-TEA	U-A-Early Shrub	ReplacementFire	0.0100	0.5000	Yes
Mountain Shrub	U-D-TEA	U-A-SAP	Insect/Disease	0.0157	0.5000	Yes

Mountain Shrub	U-D-TEA	U-A-SAP	Medicote+Plateau+NativeSeed	0.0000	0.1000		Yes
Mountain Shrub	U-D-TEA	U-A-SAP	ReplacementFire	0.0100	0.5000		Yes
Mountain Shrub	U-D-TEA	U-A-SI	Medicote+Plateau+NativeSeed	0.0000	0.8000		Yes
Mountain Shrub	U-D-TEA	U-A-SHAS	Medicote+Plateau+NativeSeed	0.0000	0.1000		Yes
Mountain Shrub	U-D-TEA	U-C-SAP	Severe-Drought	0.0070	0.1000		Yes
Mountain Shrub	U-D-TEA	U-D-TEA	Severe-Drought	0.0070	0.9900		Yes
Mountain Shrub	U-D-Unpalat. Forb	U-A-Unpalat. Forb	ReplacementFire	0.0200			Yes
Pinyon-Juniper Woodland	A.All	A.All	EarlySpring-Cattle-Grazing-byYr	0.0233	0.0005	3	Yes
Pinyon-Juniper Woodland	A.All	A.All	EarlySpring-Cattle-Grazing-byYr	0.0233	0.9990	3	No
Pinyon-Juniper Woodland	A.All	A.All	Fall-Cattle-Grazing-byYr	0.0030	0.0005	3	Yes
Pinyon-Juniper Woodland	A.All	A.All	Fall-Cattle-Grazing-byYr	0.0030	0.9990	3	No
Pinyon-Juniper Woodland	A.All	A.All	FeralHorse-Grazing	0.0080	0.0005		Yes
Pinyon-Juniper Woodland	A.All	A.All	FeralHorse-Grazing	0.0080	0.9990		2 No
Pinyon-Juniper Woodland	A.All	A.All	Late-Spring-Cattle-Grazing-byYr	0.0233	0.0005	3	Yes
Pinyon-Juniper Woodland	A.All	A.All	Late-Spring-Cattle-Grazing-byYr	0.0233	0.9990	3	1 No
Pinyon-Juniper Woodland	A.All	A.All	ReplacementFire	0.0050			Yes
Pinyon-Juniper Woodland	A.All	A.All	Summer-Cattle-Grazing-byYr	0.0030	0.0005	3	No
Pinyon-Juniper Woodland	A.All	A.All	Summer-Cattle-Grazing-byYr	0.0030	0.9990	3	Yes
Pinyon-Juniper Woodland	A.All	A.All	Wild-Horse-Grazing	0.0080	0.0005		2 No
Pinyon-Juniper Woodland	A.All	A.All	Wild-Horse-Grazing	0.0080	0.9990		Yes
Pinyon-Juniper Woodland	A.All	U-A-SAP	AS-Invasion	0.0025			No
Pinyon-Juniper Woodland	B.Open	A.All	EarlySpring-Cattle-Grazing-byYr	0.0233	0.0005		9 Yes
Pinyon-Juniper Woodland	B.Open	A.All	Fall-Cattle-Grazing-byYr	0.0030	0.9990		9 Yes
Pinyon-Juniper Woodland	B.Open	A.All	FeralHorse-Grazing	0.0080	0.0005		Yes
Pinyon-Juniper Woodland	B.Open	A.All	Late-Spring-Cattle-Grazing-byYr	0.0233	0.9990		Yes
Pinyon-Juniper Woodland	B.Open	A.All	ReplacementFire	0.0050			Yes
Pinyon-Juniper Woodland	B.Open	A.All	Summer-Cattle-Grazing-byYr	0.0030	0.9990		9 Yes
Pinyon-Juniper Woodland	B.Open	A.All	Wild-Horse-Grazing	0.0080	0.0005		Yes
Pinyon-Juniper Woodland	B.Open	B.Open	EarlySpring-Cattle-Grazing-byYr	0.0233	0.9990		Yes
Pinyon-Juniper Woodland	B.Open	B.Open	Fall-Cattle-Grazing-byYr	0.0000	0.0005		No
Pinyon-Juniper Woodland	B.Open	B.Open	FeralHorse-Grazing	0.0080	0.9990		2 No
Pinyon-Juniper Woodland	B.Open	B.Open	Late-Spring-Cattle-Grazing-byYr	0.0233	0.0005		1 No
Pinyon-Juniper Woodland	B.Open	B.Open	Late-Spring-Cattle-Grazing-byYr	0.0233	0.0005		1 No
Pinyon-Juniper Woodland	B.Open	B.Open	Summer-Cattle-Grazing-byYr	0.0000	0.9990		2 No
Pinyon-Juniper Woodland	B.Open	B.Open	Wild-Horse-Grazing	0.0080	0.0005		2 No
Pinyon-Juniper Woodland	B.Open	U-B-SAP	AS-Invasion	0.0025			No
Pinyon-Juniper Woodland	C.Open	A.All	ReplacementFire	0.0050			Yes
Pinyon-Juniper Woodland	C.Open	B.Open	Severe-Drought	0.0070	0.1000		Yes
Pinyon-Juniper Woodland	C.Open	C.Open	Severe-Drought	0.0070	0.9000		Yes
Pinyon-Juniper Woodland	D.Open	U-D-TEA	AS-Invasion	0.0025			No
Pinyon-Juniper Woodland	D.Open	A.All	ReplacementFire	0.0020			Yes
Pinyon-Juniper Woodland	D.Open	A.All	Senescence	0.0100		2000	Yes
Pinyon-Juniper Woodland	D.Open	B.Open	Insect/Disease	0.0167	0.0100		Yes
Pinyon-Juniper Woodland	D.Open	C.Open	Insect/Disease	0.0167	0.0900		Yes
Pinyon-Juniper Woodland	D.Open	D.Open	Insect/Disease	0.0167	0.9000		Yes
Pinyon-Juniper Woodland	D.Open	D.Open	SurfaceFire	0.0010			No
Pinyon-Juniper Woodland	D.Open	U-D-TEA	AS-Invasion	0.0010			No
Pinyon-Juniper Woodland	U-A-Annual Spp	U-A-Annual Spp	EarlySpring-Cattle-Grazing-byYr	0.0233	0.9990	3	Yes
Pinyon-Juniper Woodland	U-A-Annual Spp	U-A-Annual Spp	Fall-Cattle-Grazing-byYr	0.0030	0.0005	3	Yes
Pinyon-Juniper Woodland	U-A-Annual Spp	U-A-Annual Spp	FeralHorse-Grazing	0.0080	0.9990		2 No
Pinyon-Juniper Woodland	U-A-Annual Spp	U-A-Annual Spp	ReplacementFire	0.0050			Yes
Pinyon-Juniper Woodland	U-A-Annual Spp	U-A-Annual Spp	Wild-Horse-Grazing	0.0080	0.9990		2 No
Pinyon-Juniper Woodland	U-A-Annual Spp	U-A-Exotic Forbs	Exotic-Invasion	0.0005			No
Pinyon-Juniper Woodland	U-A-Exotic Forbs	U-A-Exotic Forbs	ReplacementFire	0.0050			Yes
Pinyon-Juniper Woodland	U-A-SAP	U-A-Annual Spp	EarlySpring-Cattle-Grazing-byYr	0.0233	0.0005	3	Yes
Pinyon-Juniper Woodland	U-A-SAP	U-A-Annual Spp	Fall-Cattle-Grazing-byYr	0.0030	0.9990	3	Yes
Pinyon-Juniper Woodland	U-A-SAP	U-A-Annual Spp	FeralHorse-Grazing	0.0080	0.0005		Yes
Pinyon-Juniper Woodland	U-A-SAP	U-A-Annual Spp	Late-Spring-Cattle-Grazing-byYr	0.0233	0.9990	3	No
Pinyon-Juniper Woodland	U-A-SAP	U-A-Annual Spp	ReplacementFire	0.0050			Yes
Pinyon-Juniper Woodland	U-A-SAP	U-A-Annual Spp	Summer-Cattle-Grazing-byYr	0.0030	0.9990	3	Yes
Pinyon-Juniper Woodland	U-A-SAP	U-A-Annual Spp	Wild-Horse-Grazing	0.0080	0.0005		Yes
Pinyon-Juniper Woodland	U-A-SAP	U-A-Exotic Forbs	Exotic-Invasion	0.0005			No
Pinyon-Juniper Woodland	U-A-SAP	U-A-SAP	EarlySpring-Cattle-Grazing-byYr	0.0233	0.0005	3	No
Pinyon-Juniper Woodland	U-A-SAP	U-A-SAP	Fall-Cattle-Grazing-byYr	0.0030	0.9990	3	No
Pinyon-Juniper Woodland	U-A-SAP	U-A-SAP	FeralHorse-Grazing	0.0080	0.0005		2 No
Pinyon-Juniper Woodland	U-A-SAP	U-A-SAP	Late-Spring-Cattle-Grazing-byYr	0.0233	0.9990	3	1 No
Pinyon-Juniper Woodland	U-A-SAP	U-A-SAP	ReplacementFire	0.0050			Yes
Pinyon-Juniper Woodland	U-A-SAP	U-A-SAP	Summer-Cattle-Grazing-byYr	0.0030	0.9990	3	No
Pinyon-Juniper Woodland	U-A-SAP	U-A-SAP	Wild-Horse-Grazing	0.0080	0.0005		2 No
Pinyon-Juniper Woodland	U-A-SI	U-A-SAP	Severe-Drought	0.0070		1	2 Yes
Pinyon-Juniper Woodland	U-A-SI	U-A-SI	EarlySpring-Cattle-Grazing-byYr	0.0233	0.0005	3	No
Pinyon-Juniper Woodland	U-A-SI	U-A-SI	Fall-Cattle-Grazing-byYr	0.0000	0.9990	3	No
Pinyon-Juniper Woodland	U-A-SI	U-A-SI	FeralHorse-Grazing	0.0080	0.9990	3	2 No
Pinyon-Juniper Woodland	U-A-SI	U-A-SI	Late-Spring-Cattle-Grazing-byYr	0.0233	0.0005	3	1 No
Pinyon-Juniper Woodland	U-A-SI	U-A-SI	ReplacementFire	0.0050			Yes
Pinyon-Juniper Woodland	U-A-SI	U-A-SI	Severe-Drought	0.0070	0.1000	3	Yes
Pinyon-Juniper Woodland	U-A-SI	U-A-SI	Severe-Drought	0.0070	0.9000	3	-1 No
Pinyon-Juniper Woodland	U-A-SI	U-A-SI	Summer-Cattle-Grazing-byYr	0.0000	0.0005	3	No
Pinyon-Juniper Woodland	U-A-SI	U-A-SI	Wild-Horse-Grazing	0.0080	0.9990	3	2 No
Pinyon-Juniper Woodland	U-A-SI	U-A-SHAS	AS-Invasion	0.0010		1	No
Pinyon-Juniper Woodland	U-A-SHAS	U-A-Annual Spp	EarlySpring-Cattle-Grazing-byYr	0.0233	0.9990	3	Yes
Pinyon-Juniper Woodland	U-A-SHAS	U-A-Annual Spp	Fall-Cattle-Grazing-byYr	0.0030	0.0005	3	Yes
Pinyon-Juniper Woodland	U-A-SHAS	U-A-Annual Spp	FeralHorse-Grazing	0.0080	0.9990	3	2 Yes
Pinyon-Juniper Woodland	U-A-SHAS	U-A-Annual Spp	Late-Spring-Cattle-Grazing-byYr	0.0233	0.0005	3	Yes
Pinyon-Juniper Woodland	U-A-SHAS	U-A-Annual Spp	Severe-Drought	0.0070		1	2 Yes
Pinyon-Juniper Woodland	U-A-SHAS	U-A-Annual Spp	Summer-Cattle-Grazing-byYr	0.0030	0.0005	3	Yes
Pinyon-Juniper Woodland	U-A-SHAS	U-A-Annual Spp	Summer-Cattle-Grazing-byYr	0.0030	0.0005	3	Yes
Pinyon-Juniper Woodland	U-A-SHAS	U-A-Annual Spp	Summer-Cattle-Grazing-byYr	0.0030	0.0005	3	Yes
Pinyon-Juniper Woodland	U-A-SHAS	U-A-Annual Spp	Summer-Cattle-Grazing-byYr	0.0030	0.9990	3	Yes
Pinyon-Juniper Woodland	U-A-SHAS	U-A-Annual Spp	Wild-Horse-Grazing	0.0080	0.9990	3	2 Yes
Pinyon-Juniper Woodland	U-A-SHAS	U-A-SAP	FeralHorse-Grazing	0.0080	0.0005	3	Yes
Pinyon-Juniper Woodland	U-A-SHAS	U-A-SAP	Wild-Horse-Grazing	0.0080	0.9990	3	Yes
Pinyon-Juniper Woodland	U-A-SHAS	U-A-SI	Competition	0.3330			3 No
Pinyon-Juniper Woodland	U-A-SHAS	U-A-SHAS	EarlySpring-Cattle-Grazing-byYr	0.0233	0.9990	3	No
Pinyon-Juniper Woodland	U-A-SHAS	U-A-SHAS	Fall-Cattle-Grazing-byYr	0.0030	0.0005	3	No
Pinyon-Juniper Woodland	U-A-SHAS	U-A-SHAS	FeralHorse-Grazing	0.0080	0.9990	3	2 No
Pinyon-Juniper Woodland	U-A-SHAS	U-A-SHAS	Late-Spring-Cattle-Grazing-byYr	0.0233	0.0005	3	1 No
Pinyon-Juniper Woodland	U-A-SHAS	U-A-SHAS	ReplacementFire	0.0050			Yes
Pinyon-Juniper Woodland	U-A-SHAS	U-A-SHAS	Severe-Drought	0.0070	0.1000	3	Yes
Pinyon-Juniper Woodland	U-A-SHAS	U-A-SHAS	Severe-Drought	0.0070	0.9000	3	-1 No
Pinyon-Juniper Woodland	U-A-SHAS	U-A-SHAS	Summer-Cattle-Grazing-byYr	0.0030	0.0005	3	No
Pinyon-Juniper Woodland	U-A-SHAS	U-A-SHAS	Web-Teat	0.0670			No
Pinyon-Juniper Woodland	U-A-SHAS	U-A-SHAS	Wild-Horse-Grazing	0.0080	0.0005	3	2 No
Pinyon-Juniper Woodland	U-A-Unpalat. Forb	U-A-Unpalat. Forb	ReplacementFire	0.0020			Yes
Pinyon-Juniper Woodland	U-B-Exotic Forbs	U-A-Annual Spp	ReplacementFire	0.0050	0.2500		Yes
Pinyon-Juniper Woodland	U-B-Exotic Forbs	U-A-Exotic Forbs	ReplacementFire	0.0050	0.7500		Yes
Pinyon-Juniper Woodland	U-B-SAP	U-A-Annual Spp	EarlySpring-Cattle-Grazing-byYr	0.0233	0.0005		Yes
Pinyon-Juniper Woodland	U-B-SAP	U-A-Annual Spp	EarlySpring-Cattle-Grazing-byYr	0.0233	0.9990		Yes
Pinyon-Juniper Woodland	U-B-SAP	U-A-Annual Spp	Fall-Cattle-Grazing-byYr	0.0030	0.0005		Yes
Pinyon-Juniper Woodland	U-B-SAP	U-A-Annual Spp	FeralHorse-Grazing	0.0170	0.9990		Yes
Pinyon-Juniper Woodland	U-B-SAP	U-A-Annual Spp	Late-Spring-Cattle-Grazing-byYr	0.0233	0.0005		Yes
Pinyon-Juniper Woodland	U-B-SAP	U-A-Annual Spp	ReplacementFire	0.0100	0.5000		Yes
Pinyon-Juniper Woodland	U-B-SAP	U-A-Annual Spp	Summer-Cattle-Grazing-byYr	0.0030	0.0005		Yes
Pinyon-Juniper Woodland	U-B-SAP	U-A-Annual Spp	Wild-Horse-Grazing	0.0170	0.9990		Yes
Pinyon-Juniper Woodland	U-B-SAP	U-A-SAP	ReplacementFire	0.0100	0.5000		Yes
Pinyon-Juniper Woodland	U-B-SAP	U-B-Exotic Forbs	Exotic-Invasion	0.0005			No
Pinyon-Juniper Woodland	U-B-SAP	U-B-SAP	EarlySpring-Cattle-Grazing-byYr	0.0233	0.0005		No
Pinyon-Juniper Woodland	U-B-SAP	U-B-SAP	Fall-Cattle-Grazing-byYr	0.0030	0.9990		No

Prion-Juniper Woodland	U-B-SAP	U-B-SAP	FeralHorse-Grazing	0.0170	0.0005	2	No
Prion-Juniper Woodland	U-B-SAP	U-B-SAP	Late-Spring-Cattle-Grazing-byYr	0.0233	0.9990	1	No
Prion-Juniper Woodland	U-B-SAP	U-B-SAP	Summer-Cattle-Grazing-byYr	0.0030	0.0005		No
Prion-Juniper Woodland	U-B-SAP	U-B-SAP	Wild-Horse-Grazing	0.0170	0.9990	2	No
Prion-Juniper Woodland	U-B-Open	B-Open	NaturalRecovery	0.0010			10
Prion-Juniper Woodland	U-B-SI	U-A-SI	ReplacementFire	0.0020			Yes
Prion-Juniper Woodland	U-B-SI	U-A-SI	Severe-Drought	0.0070	0.1000		Yes
Prion-Juniper Woodland	U-B-SI	U-B-SI	EarlySpring-Cattle-Grazing-byYr	0.0233	0.9990		No
Prion-Juniper Woodland	U-B-SI	U-B-SI	Fall-Cattle-Grazing-byYr	0.0233	0.0005		No
Prion-Juniper Woodland	U-B-SI	U-B-SI	FeralHorse-Grazing	0.0080	0.9990	2	No
Prion-Juniper Woodland	U-B-SI	U-B-SI	Late-Spring-Cattle-Grazing-byYr	0.0233	0.0005	1	No
Prion-Juniper Woodland	U-B-SI	U-B-SI	Severe-Drought	0.0070	0.9000		Yes
Prion-Juniper Woodland	U-B-SI	U-B-SI	Summer-Cattle-Grazing-byYr	0.0030	0.0005		No
Prion-Juniper Woodland	U-B-SI	U-B-SI	Wild-Horse-Grazing	0.0080	0.9990	2	No
Prion-Juniper Woodland	U-B-SI	U-B-SI	AS-Invasion	0.0010			No
Prion-Juniper Woodland	U-B-SHAS	U-A-SHAS	ReplacementFire	0.0050			Yes
Prion-Juniper Woodland	U-B-SHAS	U-A-SHAS	Severe-Drought	0.0070	0.1000		Yes
Prion-Juniper Woodland	U-B-SHAS	U-B-SI	Competition	0.3330			No
Prion-Juniper Woodland	U-B-SHAS	U-B-SHAS	EarlySpring-Cattle-Grazing-byYr	0.0233	0.0005		No
Prion-Juniper Woodland	U-B-SHAS	U-B-SHAS	Fall-Cattle-Grazing-byYr	0.0030	0.9990		No
Prion-Juniper Woodland	U-B-SHAS	U-B-SHAS	FeralHorse-Grazing	0.0080	0.0005	2	No
Prion-Juniper Woodland	U-B-SHAS	U-B-SHAS	Late-Spring-Cattle-Grazing-byYr	0.0233	0.9990	1	No
Prion-Juniper Woodland	U-B-SHAS	U-B-SHAS	Severe-Drought	0.0070	0.9000		Yes
Prion-Juniper Woodland	U-B-SHAS	U-B-SHAS	Summer-Cattle-Grazing-byYr	0.0030	0.9990		No
Prion-Juniper Woodland	U-B-SHAS	U-B-SHAS	Web-Year	0.0670			No
Prion-Juniper Woodland	U-B-SHAS	U-B-SHAS	Wild-Horse-Grazing	0.0080	0.9990	2	No
Prion-Juniper Woodland	U-B-Unpalat. Forb	U-A-Unpalat. Forb	ReplacementFire	0.0020			Yes
Prion-Juniper Woodland	U-C-Exotic Forbs	U-A-Annual Spp	ReplacementFire	0.0050	0.2500		Yes
Prion-Juniper Woodland	U-C-Exotic Forbs	U-A-Exotic Forbs	ReplacementFire	0.0050	0.7500		Yes
Prion-Juniper Woodland	U-C-TEA	U-A-Annual Spp	ReplacementFire	0.0050	0.5000		Yes
Prion-Juniper Woodland	U-C-TEA	U-A-Annual Spp	Severe-Drought	0.0070	0.1000		Yes
Prion-Juniper Woodland	U-C-TEA	U-A-SAP	ReplacementFire	0.0050	0.5000		Yes
Prion-Juniper Woodland	U-C-TEA	U-C-Exotic Forbs	Exotic-Invasion	0.0005			No
Prion-Juniper Woodland	U-C-TEA	U-C-TEA	Severe-Drought	0.0070	0.9000		Yes
Prion-Juniper Woodland	U-C-Unpalat. Forb	U-A-Unpalat. Forb	ReplacementFire	0.0200			Yes
Prion-Juniper Woodland	U-D-TEA	U-A-Annual Spp	ReplacementFire	0.0050			Yes
Prion-Juniper Woodland	U-D-TEA	U-A-Annual Spp	Seronecrosis	0.0100			Yes
Prion-Juniper Woodland	U-D-TEA	U-B-SAP	Insect/Disease	0.0167	0.0100		Yes
Prion-Juniper Woodland	U-D-TEA	U-C-TEA	Insect/Disease	0.0167	0.9000		Yes
Prion-Juniper Woodland	U-D-TEA	U-D-TEA	Insect/Disease	0.0167	0.9000		Yes
Prion-Juniper Woodland	U-D-Unpalat. Forb	U-A-Unpalat. Forb	ReplacementFire	0.0020			Yes
Roads-Locall	U-A-Bare Ground	U-A-Bare Ground	ReplacementFire	0.0020			Yes
Roads-Paved	U-A-Paved	U-A-Paved	ReplacementFire	0.0002			Yes
Saline Meadow	A-All	A-All	EarlySpring-Cattle-Grazing-byYr	0.0208	0.9995		No
Saline Meadow	A-All	A-All	Fall-Cattle-Grazing-byYr	0.0238	0.9995		No
Saline Meadow	A-All	A-All	FeralHorse-Grazing	0.0170	0.9990	2	No
Saline Meadow	A-All	A-All	Late-Spring-Cattle-Grazing-byYr	0.0208	0.9990	1	No
Saline Meadow	A-All	A-All	Severe-Drought	0.0070			Yes
Saline Meadow	A-All	A-All	Summer-Cattle-Grazing-byYr	0.0238	0.9995		No
Saline Meadow	A-All	A-All	WeedInventorySpot-Treat	0.0100			3
Saline Meadow	A-All	A-All	Web-Year	0.0670			1
Saline Meadow	A-All	A-All	Wild-Horse-Grazing	0.0170	0.9990	2	No
Saline Meadow	A-All	U-A-Bare Ground	FeralHorse-Grazing	0.0170	0.0005		Yes
Saline Meadow	A-All	U-A-Bare Ground	EarlySpring-Cattle-Grazing-byYr	0.0208	0.0010		Yes
Saline Meadow	A-All	U-A-Bare Ground	Summer-Cattle-Grazing-byYr	0.0238	0.0005		Yes
Saline Meadow	A-All	U-A-Bare Ground	Wild-Horse-Grazing	0.0170	0.0005		Yes
Saline Meadow	A-All	U-A-Exotic Forbs	Exotic-Invasion	0.0010			5
Saline Meadow	A-All	U-A-Hummocked	EarlySpring-Cattle-Grazing-byYr	0.0208	0.0005		Yes
Saline Meadow	A-All	U-A-Hummocked	Fall-Cattle-Grazing-byYr	0.0238	0.0005		Yes
Saline Meadow	A-All	U-A-Hummocked	FeralHorse-Grazing	0.0170	0.0005		Yes
Saline Meadow	A-All	U-A-Hummocked	Wild-Horse-Grazing	0.0170	0.0005		Yes
Saline Meadow	A-All	U-A-SAP	AS-Invasion	0.0025			3
Saline Meadow	B-Closed	B-Closed	EarlySpring-Cattle-Grazing-byYr	0.0208	0.9995		No
Saline Meadow	B-Closed	B-Closed	Fall-Cattle-Grazing-byYr	0.0238	0.9995		No
Saline Meadow	B-Closed	B-Closed	FeralHorse-Grazing	0.0170	0.9990	2	No
Saline Meadow	B-Closed	B-Closed	Late-Spring-Cattle-Grazing-byYr	0.0208	0.9990	1	No
Saline Meadow	B-Closed	B-Closed	Severe-Drought	0.0070			1
Saline Meadow	B-Closed	B-Closed	Summer-Cattle-Grazing-byYr	0.0238	0.9995		No
Saline Meadow	B-Closed	B-Closed	WeedInventorySpot-Treat	0.0100			3
Saline Meadow	B-Closed	B-Closed	Web-Year	0.0670			Yes
Saline Meadow	B-Closed	B-Closed	Wild-Horse-Grazing	0.0170	0.9990	2	No
Saline Meadow	B-Closed	C-Open	AlternateSuccession	1.0000			1
Saline Meadow	B-Closed	U-B-Depleted	EarlySpring-Cattle-Grazing-byYr	0.0208	0.0005		No
Saline Meadow	B-Closed	U-B-Depleted	Fall-Cattle-Grazing-byYr	0.0238	0.0005		No
Saline Meadow	B-Closed	U-B-Depleted	FeralHorse-Grazing	0.0170	0.0010	2	No
Saline Meadow	B-Closed	U-B-Depleted	Late-Spring-Cattle-Grazing-byYr	0.0208	0.0010	1	No
Saline Meadow	B-Closed	U-B-Depleted	Summer-Cattle-Grazing-byYr	0.0238	0.0005		No
Saline Meadow	B-Closed	U-B-Depleted	Wild-Horse-Grazing	0.0170	0.0010	2	No
Saline Meadow	B-Closed	U-B-Exotic Forbs	Exotic-Invasion	0.0010			5
Saline Meadow	B-Closed	U-B-SAP	AS-Invasion	0.0025			3
Saline Meadow	C-Open	A-All	Web-Year	0.0670			Yes
Saline Meadow	C-Open	B-Closed	Web-Year	0.0670			Yes
Saline Meadow	C-Open	C-Open	EarlySpring-Cattle-Grazing-byYr	0.0208	0.9995		No
Saline Meadow	C-Open	C-Open	Fall-Cattle-Grazing-byYr	0.0238	0.9995		No
Saline Meadow	C-Open	C-Open	FeralHorse-Grazing	0.0170	0.9990	2	No
Saline Meadow	C-Open	C-Open	Late-Spring-Cattle-Grazing-byYr	0.0208	0.9990	1	No
Saline Meadow	C-Open	C-Open	Severe-Drought	0.0070			1
Saline Meadow	C-Open	C-Open	Summer-Cattle-Grazing-byYr	0.0238	0.9995		No
Saline Meadow	C-Open	C-Open	WeedInventorySpot-Treat	0.0100			3
Saline Meadow	C-Open	C-Open	Wild-Horse-Grazing	0.0170	0.9990	2	No
Saline Meadow	C-Open	U-C-Depleted	EarlySpring-Cattle-Grazing-byYr	0.0208	0.0005		No
Saline Meadow	C-Open	U-C-Depleted	Fall-Cattle-Grazing-byYr	0.0238	0.0005		No
Saline Meadow	C-Open	U-C-Depleted	FeralHorse-Grazing	0.0170	0.0010	2	No
Saline Meadow	C-Open	U-C-Depleted	Late-Spring-Cattle-Grazing-byYr	0.0208	0.0010	1	No
Saline Meadow	C-Open	U-C-Depleted	Summer-Cattle-Grazing-byYr	0.0238	0.0005		No
Saline Meadow	C-Open	U-C-Depleted	Wild-Horse-Grazing	0.0170	0.0010	2	No
Saline Meadow	C-Open	U-C-Exotic Forbs	Exotic-Invasion	0.0010			5
Saline Meadow	C-Open	U-C-SAP	AS-Invasion	0.0025			3
Saline Meadow	U-A-Annual Spp	A-All	Herbicide-Pileup+Native-Seed	0.0000	0.6000		Yes
Saline Meadow	U-A-Annual Spp	U-A-Annual Spp	EarlySpring-Cattle-Grazing-byYr	0.0208			Yes
Saline Meadow	U-A-Annual Spp	U-A-Annual Spp	Fall-Cattle-Grazing-byYr	0.0238			Yes
Saline Meadow	U-A-Annual Spp	U-A-Annual Spp	FeralHorse-Grazing	0.0170			Yes
Saline Meadow	U-A-Annual Spp	U-A-Annual Spp	Herbicide-Pileup+Native-Seed	0.0000	0.4000		5
Saline Meadow	U-A-Annual Spp	U-A-Annual Spp	ReplacementFire	0.1000			Yes
Saline Meadow	U-A-Annual Spp	U-A-Annual Spp	WeedInventorySpot-Treat	0.0100			3
Saline Meadow	U-A-Annual Spp	U-A-Annual Spp	Wild-Horse-Grazing	0.0170			Yes
Saline Meadow	U-A-Annual Spp	U-A-Exotic Forbs	Exotic-Invasion	0.0010			5
Saline Meadow	U-A-Bare Ground	U-A-Annual Spp	AS-Invasion	0.0050			3
Saline Meadow	U-A-Bare Ground	U-A-Bare Ground	WeedInventorySpot-Treat	0.0100			3
Saline Meadow	U-A-Bare Ground	U-A-Exotic Forbs	Exotic-Invasion	0.0010			5
Saline Meadow	U-A-Bare Ground	U-A-Exotic Forbs	Web-Year	0.0670			No
Saline Meadow	U-A-Exotic Forbs	A-All	Exotic-Control	0.0100	0.6000		20
Saline Meadow	U-A-Exotic Forbs	U-A-Exotic Forbs	EarlySpring-Cattle-Grazing-byYr	0.0208			Yes
Saline Meadow	U-A-Exotic Forbs	U-A-Exotic Forbs	Exotic-Control	0.0100	0.4000		20
Saline Meadow	U-A-Exotic Forbs	U-A-Exotic Forbs	Fall-Cattle-Grazing-byYr	0.0238			No
Saline Meadow	U-A-Exotic Forbs	U-A-Exotic Forbs	FeralHorse-Grazing	0.0170			2
Saline Meadow	U-A-Exotic Forbs	U-A-Exotic Forbs	Late-Spring-Cattle-Grazing-byYr	0.0208			1
Saline Meadow	U-A-Exotic Forbs	U-A-Exotic Forbs	Summer-Cattle-Grazing-byYr	0.0238			No

Saline Meadow	U-A Exotic Forbs	U-A Exotic Forbs	Summer-Cattle-Grazing-byYr	0.0298	No	
Saline Meadow	U-A Exotic Forbs	U-A Exotic Forbs	Wild-Horse-Grazing	0.0170	2 No	
Saline Meadow	U-A Hummocked	A.All	Natural-Recovery	1.0000	Yes	5
Saline Meadow	U-A Hummocked	U-A Annual Spp	AS-Invasion	0.0025	No	3
Saline Meadow	U-A Hummocked	U-A Bare Ground	Severe-Drought	0.0070	No	5
Saline Meadow	U-A Hummocked	U-A Exotic Forbs	Exotic-Invasion	0.0010	Yes	5
Saline Meadow	U-A Hummocked	U-A Hummocked	Early-Spring-Cattle-Grazing-byYr	0.0208	Yes	
Saline Meadow	U-A Hummocked	U-A Hummocked	Fall-Cattle-Grazing-byYr	0.0298	Yes	
Saline Meadow	U-A Hummocked	U-A Hummocked	Feral-Horse-Grazing	0.0170	Yes	
Saline Meadow	U-A Hummocked	U-A Hummocked	Late-Spring-Cattle-Grazing-byYr	0.0208	Yes	
Saline Meadow	U-A Hummocked	U-A Hummocked	Summer-Cattle-Grazing-byYr	0.0298	Yes	
Saline Meadow	U-A Hummocked	U-A Hummocked	Weed-Inventories/Spot-Treat	0.0100	No	3
Saline Meadow	U-A SAP	U-A Annual Spp	Wild-Horse-Grazing	0.0170	0.0005	Yes
Saline Meadow	U-A SAP	U-A Annual Spp	Late-Spring-Cattle-Grazing-byYr	0.0208	0.0005	Yes
Saline Meadow	U-A SAP	U-A Annual Spp	ReplacementFire	0.0100	0.5000	Yes
Saline Meadow	U-A SAP	U-A Annual Spp	Wild-Horse-Grazing	0.0170	0.0005	Yes
Saline Meadow	U-A SAP	U-A Exotic Forbs	Exotic-Invasion	0.0010	0.0005	Yes
Saline Meadow	U-A SAP	U-A SAP	Early-Spring-Cattle-Grazing-byYr	0.0208	0.0005	Yes
Saline Meadow	U-A SAP	U-A SAP	Early-Spring-Cattle-Grazing-byYr	0.0208	0.9995	No
Saline Meadow	U-A SAP	U-A SAP	Fall-Cattle-Grazing-byYr	0.0298	0.0005	Yes
Saline Meadow	U-A SAP	U-A SAP	Fall-Cattle-Grazing-byYr	0.0298	0.9995	No
Saline Meadow	U-A SAP	U-A SAP	Feral-Horse-Grazing	0.0170	0.0005	Yes
Saline Meadow	U-A SAP	U-A SAP	Feral-Horse-Grazing	0.0170	0.9990	2 No
Saline Meadow	U-A SAP	U-A SAP	Late-Spring-Cattle-Grazing-byYr	0.0208	0.0005	Yes
Saline Meadow	U-A SAP	U-A SAP	Late-Spring-Cattle-Grazing-byYr	0.0208	0.9990	1 No
Saline Meadow	U-A SAP	U-A SAP	ReplacementFire	0.0100	0.5000	Yes
Saline Meadow	U-A SAP	U-A SAP	Severe-Drought	0.0070	0.0070	Yes
Saline Meadow	U-A SAP	U-A SAP	Summer-Cattle-Grazing-byYr	0.0298	0.0005	Yes
Saline Meadow	U-A SAP	U-A SAP	Summer-Cattle-Grazing-byYr	0.0298	0.9995	No
Saline Meadow	U-A SAP	U-A SAP	Weed-Inventories/Spot-Treat	0.0100	0.0100	No
Saline Meadow	U-A SAP	U-A SAP	Web-Year	0.0670	0.0670	1 Yes
Saline Meadow	U-A SAP	U-A SAP	Wild-Horse-Grazing	0.0170	0.0005	Yes
Saline Meadow	U-A SAP	U-A SAP	Wild-Horse-Grazing	0.0170	0.9990	2 No
Saline Meadow	U-B Depleted	A.All	ThinNativeSeed	0.0000	0.6000	Yes
Saline Meadow	U-B Depleted	U-A Bare Ground	Feral-Horse-Grazing	0.0170	0.0005	Yes
Saline Meadow	U-B Depleted	U-A Bare Ground	Late-Spring-Cattle-Grazing-byYr	0.0208	0.0010	Yes
Saline Meadow	U-B Depleted	U-A Bare Ground	Summer-Cattle-Grazing-byYr	0.0298	0.0005	Yes
Saline Meadow	U-B Depleted	U-A Bare Ground	Wild-Horse-Grazing	0.0170	0.0005	Yes
Saline Meadow	U-B Depleted	U-A Hummocked	Early-Spring-Cattle-Grazing-byYr	0.0208	0.0005	Yes
Saline Meadow	U-B Depleted	U-A Hummocked	Fall-Cattle-Grazing-byYr	0.0298	0.0005	Yes
Saline Meadow	U-B Depleted	U-A Hummocked	Feral-Horse-Grazing	0.0170	0.0005	Yes
Saline Meadow	U-B Depleted	U-A Hummocked	Wild-Horse-Grazing	0.0170	0.0005	Yes
Saline Meadow	U-B Depleted	U-B Depleted	Early-Spring-Cattle-Grazing-byYr	0.0208	0.9995	No
Saline Meadow	U-B Depleted	U-B Depleted	Fall-Cattle-Grazing-byYr	0.0298	0.9995	No
Saline Meadow	U-B Depleted	U-B Depleted	Feral-Horse-Grazing	0.0170	0.9990	2 No
Saline Meadow	U-B Depleted	U-B Depleted	Late-Spring-Cattle-Grazing-byYr	0.0208	0.9990	1 No
Saline Meadow	U-B Depleted	U-B Depleted	Severe-Drought	0.0070	0.0070	2 No
Saline Meadow	U-B Depleted	U-B Depleted	Summer-Cattle-Grazing-byYr	0.0298	0.9995	No
Saline Meadow	U-B Depleted	U-B Depleted	ThinNativeSeed	0.0000	0.4000	Yes
Saline Meadow	U-B Depleted	U-B Depleted	Weed-Inventories/Spot-Treat	0.0100	0.0100	No
Saline Meadow	U-B Depleted	U-B Depleted	Web-Year	0.0670	0.0670	Yes
Saline Meadow	U-B Depleted	U-B Depleted	Wild-Horse-Grazing	0.0170	0.9990	2 No
Saline Meadow	U-B Depleted	U-B Exotic Forbs	Exotic-Invasion	0.0010	0.0010	Yes
Saline Meadow	U-B Depleted	U-B Exotic Forbs	AS-Invasion	0.0050	0.0050	No
Saline Meadow	U-B Exotic Forbs	B.Closed	Exotic-Control	0.0100	0.6000	20 No
Saline Meadow	U-B Exotic Forbs	U-B Exotic Forbs	Exotic-Control	0.0100	0.4000	Yes
Saline Meadow	U-B Exotic Forbs	U-B Exotic Forbs	Early-Spring-Cattle-Grazing-byYr	0.0208	0.0005	No
Saline Meadow	U-B Exotic Forbs	U-B Exotic Forbs	Fall-Cattle-Grazing-byYr	0.0298	0.0005	No
Saline Meadow	U-B Exotic Forbs	U-B Exotic Forbs	Feral-Horse-Grazing	0.0170	0.0010	2 No
Saline Meadow	U-B Exotic Forbs	U-B Exotic Forbs	Late-Spring-Cattle-Grazing-byYr	0.0208	0.0005	1 No
Saline Meadow	U-B Exotic Forbs	U-B Exotic Forbs	Summer-Cattle-Grazing-byYr	0.0298	0.0005	Yes
Saline Meadow	U-B Exotic Forbs	U-B Exotic Forbs	Wild-Horse-Grazing	0.0170	0.0005	2 No
Saline Meadow	U-B SAP	A.All	Herbicide-Plateau/Native-Seed	0.0000	0.6000	Yes
Saline Meadow	U-B SAP	U-A Annual Spp	Feral-Horse-Grazing	0.0170	0.0005	Yes
Saline Meadow	U-B SAP	U-A Annual Spp	Late-Spring-Cattle-Grazing-byYr	0.0208	0.0005	Yes
Saline Meadow	U-B SAP	U-A Annual Spp	ReplacementFire	0.0100	0.5000	Yes
Saline Meadow	U-B SAP	U-A Annual Spp	Severe-Drought	0.0070	0.1000	Yes
Saline Meadow	U-B SAP	U-A Annual Spp	Wild-Horse-Grazing	0.0170	0.0005	Yes
Saline Meadow	U-B SAP	U-A SAP	Early-Spring-Cattle-Grazing-byYr	0.0208	0.0005	Yes
Saline Meadow	U-B SAP	U-A SAP	Fall-Cattle-Grazing-byYr	0.0298	0.0005	Yes
Saline Meadow	U-B SAP	U-A SAP	Feral-Horse-Grazing	0.0170	0.0010	Yes
Saline Meadow	U-B SAP	U-A SAP	Late-Spring-Cattle-Grazing-byYr	0.0208	0.0005	Yes
Saline Meadow	U-B SAP	U-A SAP	ReplacementFire	0.0100	0.5000	Yes
Saline Meadow	U-B SAP	U-A SAP	Summer-Cattle-Grazing-byYr	0.0298	0.0005	Yes
Saline Meadow	U-B SAP	U-A SAP	Wild-Horse-Grazing	0.0170	0.0005	Yes
Saline Meadow	U-B SAP	U-B SAP	Early-Spring-Cattle-Grazing-byYr	0.0208	0.9995	No
Saline Meadow	U-B SAP	U-B SAP	Fall-Cattle-Grazing-byYr	0.0298	0.9995	No
Saline Meadow	U-B SAP	U-B SAP	Feral-Horse-Grazing	0.0170	0.9990	2 No
Saline Meadow	U-B SAP	U-B SAP	Herbicide-Plateau/Native-Seed	0.0000	0.4000	Yes
Saline Meadow	U-B SAP	U-B SAP	Late-Spring-Cattle-Grazing-byYr	0.0208	0.9990	1 No
Saline Meadow	U-B SAP	U-B SAP	Severe-Drought	0.0070	0.9000	1 No
Saline Meadow	U-B SAP	U-B SAP	Summer-Cattle-Grazing-byYr	0.0298	0.9995	No
Saline Meadow	U-B SAP	U-B SAP	Weed-Inventories/Spot-Treat	0.0100	0.0100	No
Saline Meadow	U-B SAP	U-B SAP	Web-Year	0.0670	0.0670	Yes
Saline Meadow	U-B SAP	U-B SAP	Wild-Horse-Grazing	0.0170	0.9990	2 No
Saline Meadow	U-C Depleted	U-C Exotic Forbs	Exotic-Invasion	0.0010	0.0010	Yes
Saline Meadow	U-C Depleted	A.All	ThinNativeSeed	0.0000	0.6000	Yes
Saline Meadow	U-C Depleted	U-A Bare Ground	Feral-Horse-Grazing	0.0170	0.0010	Yes
Saline Meadow	U-C Depleted	U-A Bare Ground	Late-Spring-Cattle-Grazing-byYr	0.0208	0.0005	Yes
Saline Meadow	U-C Depleted	U-A Bare Ground	Summer-Cattle-Grazing-byYr	0.0298	0.0005	Yes
Saline Meadow	U-C Depleted	U-A Hummocked	Wild-Horse-Grazing	0.0170	0.0010	Yes
Saline Meadow	U-C Depleted	U-A Hummocked	Early-Spring-Cattle-Grazing-byYr	0.0208	0.0005	Yes
Saline Meadow	U-C Depleted	U-A Hummocked	Fall-Cattle-Grazing-byYr	0.0298	0.0005	Yes
Saline Meadow	U-C Depleted	U-B Depleted	Severe-Drought	0.0070	0.0070	2 No
Saline Meadow	U-C Depleted	U-B Depleted	ThinNativeSeed	0.0000	0.4000	Yes
Saline Meadow	U-C Depleted	U-C Depleted	Early-Spring-Cattle-Grazing-byYr	0.0208	0.9995	No
Saline Meadow	U-C Depleted	U-C Depleted	Fall-Cattle-Grazing-byYr	0.0298	0.9995	No
Saline Meadow	U-C Depleted	U-C Depleted	Feral-Horse-Grazing	0.0170	0.9990	2 No
Saline Meadow	U-C Depleted	U-C Depleted	Late-Spring-Cattle-Grazing-byYr	0.0208	0.0005	Yes
Saline Meadow	U-C Depleted	U-C Depleted	Late-Spring-Cattle-Grazing-byYr	0.0208	0.9990	1 No
Saline Meadow	U-C Depleted	U-C Depleted	Summer-Cattle-Grazing-byYr	0.0298	0.9995	No
Saline Meadow	U-C Depleted	U-C Depleted	Weed-Inventories/Spot-Treat	0.0100	0.0100	No
Saline Meadow	U-C Depleted	U-C Depleted	Web-Year	0.0670	0.0670	Yes
Saline Meadow	U-C Depleted	U-C Depleted	Wild-Horse-Grazing	0.0170	0.9990	2 No
Saline Meadow	U-C Exotic Forbs	U-C Exotic Forbs	Exotic-Invasion	0.0010	0.0010	Yes
Saline Meadow	U-C Exotic Forbs	U-C SAP	AS-Invasion	0.0050	0.0050	No
Saline Meadow	U-C Exotic Forbs	C.Open	Exotic-Control	0.0100	0.6000	No
Saline Meadow	U-C Exotic Forbs	U-A Exotic Forbs	Exotic-Control	0.0100	0.4000	Yes
Saline Meadow	U-C Exotic Forbs	U-C Exotic Forbs	Early-Spring-Cattle-Grazing-byYr	0.0208	0.0005	No
Saline Meadow	U-C Exotic Forbs	U-C Exotic Forbs	Fall-Cattle-Grazing-byYr	0.0298	0.0005	No
Saline Meadow	U-C Exotic Forbs	U-C Exotic Forbs	Feral-Horse-Grazing	0.0170	0.0005	2 No
Saline Meadow	U-C Exotic Forbs	U-C Exotic Forbs	Late-Spring-Cattle-Grazing-byYr	0.0208	0.0005	1 No
Saline Meadow	U-C Exotic Forbs	U-C Exotic Forbs	Summer-Cattle-Grazing-byYr	0.0298	0.0005	No
Saline Meadow	U-C Exotic Forbs	U-C Exotic Forbs	Wild-Horse-Grazing	0.0170	0.0005	2 No
Saline Meadow	U-C SAP	A.All	Mow/Plateau/Native-Seed	0.0000	0.6000	Yes
Saline Meadow	U-C SAP	U-A Annual Spp	Feral-Horse-Grazing	0.0170	0.0005	Yes
Saline Meadow	U-C SAP	U-A Annual Spp	Late-Spring-Cattle-Grazing-byYr	0.0208	0.0005	Yes

Saline Meadow	U-C-SAP	U-A Annual Spp	ReplacementFire	0.0100	0.5000	Yes	1
Saline Meadow	U-C-SAP	U-A Annual Spp	Severe Drought	0.0070	0.1000	Yes	
Saline Meadow	U-C-SAP	U-A Annual Spp	Wild-Horse-Grazing	0.0170	0.0005	Yes	
Saline Meadow	U-C-SAP	U-A-SAP	Early-Spring-Cattle-Grazing-byYr	0.0208	0.0005	Yes	
Saline Meadow	U-C-SAP	U-A-SAP	Fall-Cattle-Grazing-byYr	0.0238	0.0005	Yes	
Saline Meadow	U-C-SAP	U-A-SAP	FeralHorse-Grazing	0.0170	0.0005	Yes	
Saline Meadow	U-C-SAP	U-A-SAP	Late-Spring-Cattle-Grazing-byYr	0.0208	0.0005	Yes	
Saline Meadow	U-C-SAP	U-A-SAP	Mow/Plateau+NativeSeed	0.0000	0.4000	Yes	
Saline Meadow	U-C-SAP	U-A-SAP	ReplacementFire	0.0100	0.5000	Yes	1
Saline Meadow	U-C-SAP	U-A-SAP	Summer-Cattle-Grazing-byYr	0.0238	0.0005	Yes	
Saline Meadow	U-C-SAP	U-A-SAP	Wet-Year	0.0670		Yes	
Saline Meadow	U-C-SAP	U-A-SAP	Wild-Horse-Grazing	0.0170	0.0005	Yes	
Saline Meadow	U-C-SAP	U-B-SAP	Wet-Year	0.0670		Yes	
Saline Meadow	U-C-SAP	U-C Exotic Forbs	Exotic Invasion	0.0010		Yes	5
Saline Meadow	U-C-SAP	U-C-SAP	Early-Spring-Cattle-Grazing-byYr	0.0208	0.9995	No	
Saline Meadow	U-C-SAP	U-C-SAP	Fall-Cattle-Grazing-byYr	0.0238	0.9995	No	
Saline Meadow	U-C-SAP	U-C-SAP	FeralHorse-Grazing	0.0170	0.9990	2 No	
Saline Meadow	U-C-SAP	U-C-SAP	Late-Spring-Cattle-Grazing-byYr	0.0208	0.9990	No	
Saline Meadow	U-C-SAP	U-C-SAP	Severe Drought	0.0070	0.9000	1 No	
Saline Meadow	U-C-SAP	U-C-SAP	Summer-Cattle-Grazing-byYr	0.0238	0.9995	No	
Saline Meadow	U-C-SAP	U-C-SAP	Wet-InventorY+Spot-Trest	0.0100		No	3
Saline Meadow	U-C-SAP	U-C-SAP	Wild-Horse-Grazing	0.0170	0.9990	2 No	
Semi-Desert Grassland	A-All	A-All	Early-Spring-Cattle-Grazing-byYr	0.0408	0.0005	3	No
Semi-Desert Grassland	A-All	A-All	Fall-Cattle-Grazing-byYr	0.0052	0.9990	3	No
Semi-Desert Grassland	A-All	A-All	FeralHorse-Grazing	0.0080	0.0005	2 No	
Semi-Desert Grassland	A-All	A-All	Late-Spring-Cattle-Grazing-byYr	0.0408	0.9990	3	1 No
Semi-Desert Grassland	A-All	A-All	NativeGrazing	0.0100		19	-1 No
Semi-Desert Grassland	A-All	A-All	ReplacementFire	0.0083		19	Yes
Semi-Desert Grassland	A-All	A-All	Summer-Cattle-Grazing-byYr	0.0052	0.0005	3	No
Semi-Desert Grassland	A-All	A-All	Wild-Horse-Grazing	0.0080	0.9990	2 No	
Semi-Desert Grassland	A-All	U-A Bare Ground	Early-Spring-Cattle-Grazing-byYr	0.0408	0.0005	3	Yes
Semi-Desert Grassland	A-All	U-A Bare Ground	Fall-Cattle-Grazing-byYr	0.0052	0.9990	3	Yes
Semi-Desert Grassland	A-All	U-A Bare Ground	FeralHorse-Grazing	0.0080	0.0005	3	Yes
Semi-Desert Grassland	A-All	U-A Bare Ground	Late-Spring-Cattle-Grazing-byYr	0.0408	0.9990	3	Yes
Semi-Desert Grassland	A-All	U-A Bare Ground	Summer-Cattle-Grazing-byYr	0.0052	0.0005	3	Yes
Semi-Desert Grassland	A-All	U-A Bare Ground	Wild-Horse-Grazing	0.0080	0.9990	Yes	
Semi-Desert Grassland	A-All	U-A Early Shrub	FeralHorse-Grazing	0.0080	0.0005	Yes	
Semi-Desert Grassland	A-All	U-A Early Shrub	Late-Spring-Cattle-Grazing-byYr	0.0408	0.9990	3	Yes
Semi-Desert Grassland	A-All	U-A Early Shrub	Wild-Horse-Grazing	0.0080	0.0005	Yes	
Semi-Desert Grassland	A-All	U-A-SAP	AS-Invasion	0.0010		19	No
Semi-Desert Grassland	B-Closed	A-All	ReplacementFire	0.0100		Yes	
Semi-Desert Grassland	B-Closed	B-All	Severe Drought	0.0070	0.1000	Yes	
Semi-Desert Grassland	B-Closed	B-Closed	Early-Spring-Cattle-Grazing-byYr	0.0408	0.0005	No	
Semi-Desert Grassland	B-Closed	B-Closed	Fall-Cattle-Grazing-byYr	0.0052	0.9990	No	
Semi-Desert Grassland	B-Closed	B-Closed	FeralHorse-Grazing	0.0080	0.0005	2 No	
Semi-Desert Grassland	B-Closed	B-Closed	Late-Spring-Cattle-Grazing-byYr	0.0408	0.9990	1 No	
Semi-Desert Grassland	B-Closed	B-Closed	NativeGrazing	0.0100		Yes	
Semi-Desert Grassland	B-Closed	B-Closed	Severe Drought	0.0070	0.9000	Yes	
Semi-Desert Grassland	B-Closed	B-Closed	Summer-Cattle-Grazing-byYr	0.0052	0.0005	No	
Semi-Desert Grassland	B-Closed	B-Closed	Wild-Horse-Grazing	0.0080	0.9990	2 No	
Semi-Desert Grassland	B-Closed	U-A Bare Ground	Early-Spring-Cattle-Grazing-byYr	0.0408	0.0005	Yes	
Semi-Desert Grassland	B-Closed	U-A Bare Ground	Fall-Cattle-Grazing-byYr	0.0052	0.9990	Yes	
Semi-Desert Grassland	B-Closed	U-A Bare Ground	Late-Spring-Cattle-Grazing-byYr	0.0408	0.0005	Yes	
Semi-Desert Grassland	B-Closed	U-A Bare Ground	Summer-Cattle-Grazing-byYr	0.0052	0.9990	No	
Semi-Desert Grassland	B-Closed	U-A Early Shrub	FeralHorse-Grazing	0.0080	0.0005	Yes	
Semi-Desert Grassland	B-Closed	U-A Early Shrub	Wild-Horse-Grazing	0.0080	0.9990	Yes	
Semi-Desert Grassland	B-Closed	U-B Depleted	FeralHorse-Grazing	0.0080	0.0005	2 No	
Semi-Desert Grassland	B-Closed	U-B Depleted	Late-Spring-Cattle-Grazing-byYr	0.0408	0.9990	3	Yes
Semi-Desert Grassland	B-Closed	U-B Depleted	Wild-Horse-Grazing	0.0080	0.0005	2 No	
Semi-Desert Grassland	B-Closed	U-B-SAP	AS-Invasion	U-0-0-0		No	
Semi-Desert Grassland	U-A Bare Ground	U-A-SAP	AS-Invasion	0.0001		Yes	
Semi-Desert Grassland	U-A Early Shrub	U-A Early Shrub	ReplacementFire	0.0100		Yes	
Semi-Desert Grassland	U-A-SAP	U-A-SAP	Early-Spring-Cattle-Grazing-byYr	0.0408	0.0005	3	Yes
Semi-Desert Grassland	U-A-SAP	U-A-SAP	Early-Spring-Cattle-Grazing-byYr	0.0408	0.9990	3	No
Semi-Desert Grassland	U-A-SAP	U-A-SAP	Fall-Cattle-Grazing-byYr	0.0052	0.0005	3	Yes
Semi-Desert Grassland	U-A-SAP	U-A-SAP	Fall-Cattle-Grazing-byYr	0.0052	0.9990	3	No
Semi-Desert Grassland	U-A-SAP	U-A-SAP	FeralHorse-Grazing	0.0080	0.0005	Yes	
Semi-Desert Grassland	U-A-SAP	U-A-SAP	FeralHorse-Grazing	0.0080	0.9990	2 No	
Semi-Desert Grassland	U-A-SAP	U-A-SAP	Herbicide-PlateauSeed	0.0000	0.2000	No	
Semi-Desert Grassland	U-A-SAP	U-A-SAP	Herbicide-PlateauSeed	0.0000	0.0005	3	1 No
Semi-Desert Grassland	U-A-SAP	U-A-SAP	Late-Spring-Cattle-Grazing-byYr	0.0408	0.9990	3	Yes
Semi-Desert Grassland	U-A-SAP	U-A-SAP	NativeGrazing	0.0100		2 Yes	
Semi-Desert Grassland	U-A-SAP	U-A-SAP	ReplacementFire	0.0150		Yes	1
Semi-Desert Grassland	U-A-SAP	U-A-SAP	Severe Drought	0.0070		Yes	
Semi-Desert Grassland	U-A-SAP	U-A-SAP	Summer-Cattle-Grazing-byYr	0.0052	0.0005	3	Yes
Semi-Desert Grassland	U-A-SAP	U-A-SAP	Summer-Cattle-Grazing-byYr	0.0052	0.9990	3	No
Semi-Desert Grassland	U-A-SAP	U-A-SAP	Wild-Horse-Grazing	0.0080	0.0005	Yes	
Semi-Desert Grassland	U-A-SAP	U-A-SAP	Wild-Horse-Grazing	0.0080	0.9990	2 No	
Semi-Desert Grassland	U-A-SAP	U-A-SI	Herbicide-PlateauSeed	0.0000	0.6000	No	
Semi-Desert Grassland	U-A-SAP	U-A-SHAS	Herbicide-PlateauSeed	0.0000	0.2000	Yes	
Semi-Desert Grassland	U-A-SI	A-All	NaturalRecovery	0.0001		5	No
Semi-Desert Grassland	U-A-SI	U-A Early Shrub	Severe Drought	0.0070		1	2
Semi-Desert Grassland	U-A-SI	U-A-SI	Early-Spring-Cattle-Grazing-byYr	0.0408	0.0005	3	No
Semi-Desert Grassland	U-A-SI	U-A-SI	Fall-Cattle-Grazing-byYr	0.0052	0.9990	3	No
Semi-Desert Grassland	U-A-SI	U-A-SI	FeralHorse-Grazing	0.0080	0.0005	3	2 No
Semi-Desert Grassland	U-A-SI	U-A-SI	Late-Spring-Cattle-Grazing-byYr	0.0408	0.9990	3	1 No
Semi-Desert Grassland	U-A-SI	U-A-SI	ReplacementFire	0.0010		Yes	
Semi-Desert Grassland	U-A-SI	U-A-SI	Summer-Cattle-Grazing-byYr	0.0052	0.9990	3	No
Semi-Desert Grassland	U-A-SI	U-A-SI	Wild-Horse-Grazing	0.0080	0.0005	3	2 No
Semi-Desert Grassland	U-A-SI	U-A-SHAS	AS-Invasion	0.0010		1	2
Semi-Desert Grassland	U-A-SHAS	U-A-SAP	Severe Drought	0.0070		Yes	
Semi-Desert Grassland	U-A-SHAS	U-A-SI	Competition	0.3330		No	3
Semi-Desert Grassland	U-A-SHAS	U-A-SHAS	Early-Spring-Cattle-Grazing-byYr	0.0408	0.0005	3	No
Semi-Desert Grassland	U-A-SHAS	U-A-SHAS	Fall-Cattle-Grazing-byYr	0.0052	0.9990	3	No
Semi-Desert Grassland	U-A-SHAS	U-A-SHAS	FeralHorse-Grazing	0.0080	0.0005	3	2 No
Semi-Desert Grassland	U-A-SHAS	U-A-SHAS	Late-Spring-Cattle-Grazing-byYr	0.0408	0.9990	3	1 No
Semi-Desert Grassland	U-A-SHAS	U-A-SHAS	ReplacementFire	0.0100		Yes	1
Semi-Desert Grassland	U-A-SHAS	U-A-SHAS	Summer-Cattle-Grazing-byYr	0.0052	0.9990	3	No
Semi-Desert Grassland	U-A-SHAS	U-A-SHAS	Wet-Year	0.1000		No	
Semi-Desert Grassland	U-A-SHAS	U-A-SHAS	Wild-Horse-Grazing	0.0080	0.9990	3	2 No
Semi-Desert Grassland	U-B Depleted	U-A Bare Ground	Early-Spring-Cattle-Grazing-byYr	0.0408	0.0005	No	
Semi-Desert Grassland	U-B Depleted	U-A Bare Ground	Fall-Cattle-Grazing-byYr	0.0052	0.9990	No	
Semi-Desert Grassland	U-B Depleted	U-A Bare Ground	FeralHorse-Grazing	0.0080	0.0005	Yes	
Semi-Desert Grassland	U-B Depleted	U-A Bare Ground	Late-Spring-Cattle-Grazing-byYr	0.0408	0.9990	Yes	
Semi-Desert Grassland	U-B Depleted	U-A Bare Ground	Summer-Cattle-Grazing-byYr	0.0052	0.0005	No	
Semi-Desert Grassland	U-B Depleted	U-A Bare Ground	Wild-Horse-Grazing	0.0080	0.9990	Yes	
Semi-Desert Grassland	U-B Depleted	U-A Early Shrub	ReplacementFire	0.0100		Yes	
Semi-Desert Grassland	U-B Depleted	U-A Early Shrub	Severe Drought	0.0070	0.1000	Yes	
Semi-Desert Grassland	U-B Depleted	U-B Depleted	Early-Spring-Cattle-Grazing-byYr	0.0408	0.0005	No	
Semi-Desert Grassland	U-B Depleted	U-B Depleted	Fall-Cattle-Grazing-byYr	0.0052	0.9990	No	
Semi-Desert Grassland	U-B Depleted	U-B Depleted	FeralHorse-Grazing	0.0080	0.0005	2 No	
Semi-Desert Grassland	U-B Depleted	U-B Depleted	Late-Spring-Cattle-Grazing-byYr	0.0408	0.9990	1 No	
Semi-Desert Grassland	U-B Depleted	U-B Depleted	Severe Drought	0.0070	0.9000	Yes	
Semi-Desert Grassland	U-B Depleted	U-B Depleted	Summer-Cattle-Grazing-byYr	0.0052	0.9990	No	
Semi-Desert Grassland	U-B Depleted	U-B Depleted	Wild-Horse-Grazing	0.0080	0.0005	2 No	
Semi-Desert Grassland	U-B Depleted	U-B Early Shrub	FeralHorse-Grazing	0.0080	0.9990	2 No	
Semi-Desert Grassland	U-B Depleted	U-B Early Shrub	Late-Spring-Cattle-Grazing-byYr	0.0408	0.0005	1 No	
Semi-Desert Grassland	U-B Depleted	U-B Early Shrub	Wild-Horse-Grazing	0.0080	0.9990	2 No	

Semi-Desert Grassland	U-B Depleted	U-B-SAP	AS-Invasion	0.0050	No
Semi-Desert Grassland	U-B Early Shrub	U-A Early Shrub	Replacement Fire	0.0100	Yes
Semi-Desert Grassland	U-B-SAP	U-A-SAP	Early Spring-Cattle-Grazing-byYr	0.0408 0.0005	Yes
Semi-Desert Grassland	U-B-SAP	U-A-SAP	Fall-Cattle-Grazing-byYr	0.0052 0.9990	Yes
Semi-Desert Grassland	U-B-SAP	U-A-SAP	Feral-Horse-Grazing	0.0080 0.0005	Yes
Semi-Desert Grassland	U-B-SAP	U-A-SAP	Late-Spring-Cattle-Grazing-byYr	0.0408 0.9990	Yes
Semi-Desert Grassland	U-B-SAP	U-A-SAP	Replacement Fire	0.0150	Yes
Semi-Desert Grassland	U-B-SAP	U-A-SAP	Severe Drought	0.0070 0.1000	Yes
Semi-Desert Grassland	U-B-SAP	U-A-SAP	Summer-Cattle-Grazing-byYr	0.0052 0.0005	Yes
Semi-Desert Grassland	U-B-SAP	U-A-SAP	Wild-Horse-Grazing	0.0080 0.9990	Yes
Semi-Desert Grassland	U-B-SAP	U-A-SI	ThinSeed	0.0000 0.6000	No
Semi-Desert Grassland	U-B-SAP	U-A-SHAS	ThinSeed	0.0000 0.2000	Yes
Semi-Desert Grassland	U-B-SAP	U-B-SAP	Early Spring-Cattle-Grazing-byYr	0.0408 0.0005	No
Semi-Desert Grassland	U-B-SAP	U-B-SAP	Fall-Cattle-Grazing-byYr	0.0052 0.9990	No
Semi-Desert Grassland	U-B-SAP	U-B-SAP	Feral-Horse-Grazing	0.0080 0.0005	2 No
Semi-Desert Grassland	U-B-SAP	U-B-SAP	Late-Spring-Cattle-Grazing-byYr	0.0408 0.9990	1 No
Semi-Desert Grassland	U-B-SAP	U-B-SAP	Native-Grazing	0.0100	2 Yes
Semi-Desert Grassland	U-B-SAP	U-B-SAP	Severe Drought	0.0070 0.9000	Yes
Semi-Desert Grassland	U-B-SAP	U-B-SAP	Summer-Cattle-Grazing-byYr	0.0052 0.0005	No
Semi-Desert Grassland	U-B-SAP	U-B-SAP	ThinSeed	0.0000 0.2000	No
Semi-Desert Grassland	U-B-SAP	U-B-SAP	Wild-Horse-Grazing	0.0080 0.0005	2 No
Semi-Desert Grassland	U-B-SI	B-Closed	Natural Recovery	0.0010	No
Semi-Desert Grassland	U-B-SI	U-A-SI	Replacement Fire	0.0050	Yes
Semi-Desert Grassland	U-B-SI	U-A-SI	Severe Drought	0.0070 0.1000	Yes
Semi-Desert Grassland	U-B-SI	U-B-SI	Early Spring-Cattle-Grazing-byYr	0.0408 0.0005	No
Semi-Desert Grassland	U-B-SI	U-B-SI	Fall-Cattle-Grazing-byYr	0.0052 0.9990	No
Semi-Desert Grassland	U-B-SI	U-B-SI	Feral-Horse-Grazing	0.0080 0.0005	2 No
Semi-Desert Grassland	U-B-SI	U-B-SI	Late-Spring-Cattle-Grazing-byYr	0.0408 0.9990	1 No
Semi-Desert Grassland	U-B-SI	U-B-SI	Severe Drought	0.0070 0.9000	2 Yes
Semi-Desert Grassland	U-B-SI	U-B-SI	Summer-Cattle-Grazing-byYr	0.0052 0.9990	No
Semi-Desert Grassland	U-B-SI	U-B-SI	Wild-Horse-Grazing	0.0080 0.0005	2 No
Semi-Desert Grassland	U-B-SI	U-B-SHAS	AS-Invasion	0.0010	No
Semi-Desert Grassland	U-B-SHAS	U-A-SHAS	Replacement Fire	0.0100	Yes
Semi-Desert Grassland	U-B-SHAS	U-A-SHAS	Severe Drought	0.0070 0.1000	Yes
Semi-Desert Grassland	U-B-SHAS	U-B-SHAS	Competition	0.3330	3 No
Semi-Desert Grassland	U-B-SHAS	U-B-SHAS	Early Spring-Cattle-Grazing-byYr	0.0408 0.9990	No
Semi-Desert Grassland	U-B-SHAS	U-B-SHAS	Fall-Cattle-Grazing-byYr	0.0052 0.0005	2 No
Semi-Desert Grassland	U-B-SHAS	U-B-SHAS	Feral-Horse-Grazing	0.0080 0.9990	No
Semi-Desert Grassland	U-B-SHAS	U-B-SHAS	Late-Spring-Cattle-Grazing-byYr	0.0408 0.0005	1 No
Semi-Desert Grassland	U-B-SHAS	U-B-SHAS	Severe Drought	0.0070 0.9000	Yes
Semi-Desert Grassland	U-B-SHAS	U-B-SHAS	Summer-Cattle-Grazing-byYr	0.0052 0.0005	No
Semi-Desert Grassland	U-B-SHAS	U-B-SHAS	Wet Year	0.1000	No
Semi-Desert Grassland	U-B-SHAS	U-B-SHAS	Wild-Horse-Grazing	0.0080 0.0005	2 No
Subalpine-Upper Montane Grassland	A.All	A.All	Early Spring-Cattle-Grazing-byYr	0.1000 0.9990	3 No
Subalpine-Upper Montane Grassland	A.All	A.All	Fall-Cattle-Grazing-byYr	0.0127 0.0005	3 No
Subalpine-Upper Montane Grassland	A.All	A.All	Feral-Horse-Grazing	0.0200 0.9990	2 No
Subalpine-Upper Montane Grassland	A.All	A.All	Late-Spring-Cattle-Grazing-byYr	0.1000 0.0005	3 1 No
Subalpine-Upper Montane Grassland	A.All	A.All	Native-Grazing	0.0200	1 No
Subalpine-Upper Montane Grassland	A.All	A.All	Replacement Fire	0.0125	Yes
Subalpine-Upper Montane Grassland	A.All	A.All	Snow Deposition	0.0670	Yes
Subalpine-Upper Montane Grassland	A.All	A.All	Summer-Cattle-Grazing-byYr	0.0127 0.0005	3 No
Subalpine-Upper Montane Grassland	A.All	A.All	Wild-Horse-Grazing	0.0200 0.9990	2 No
Subalpine-Upper Montane Grassland	A.All	U-A Unpalat. Forb	Feral-Horse-Grazing	0.0200 0.0005	2 No
Subalpine-Upper Montane Grassland	A.All	U-A Unpalat. Forb	Late-Spring-Cattle-Grazing-byYr	0.1000 0.9990	3 1 No
Subalpine-Upper Montane Grassland	A.All	U-A Unpalat. Forb	Wild-Horse-Grazing	0.0200 0.0005	2 No
Subalpine-Upper Montane Grassland	B-Closed	A.All	Replacement Fire	0.0250	Yes
Subalpine-Upper Montane Grassland	B-Closed	A.All	Snow Deposition	0.0670	Yes
Subalpine-Upper Montane Grassland	B-Closed	B-Closed	Early Spring-Cattle-Grazing-byYr	0.1000 0.9990	Yes
Subalpine-Upper Montane Grassland	B-Closed	B-Closed	Fall-Cattle-Grazing-byYr	0.0127 0.0005	No
Subalpine-Upper Montane Grassland	B-Closed	B-Closed	Feral-Horse-Grazing	0.0200 0.9990	2 No
Subalpine-Upper Montane Grassland	B-Closed	B-Closed	Late-Spring-Cattle-Grazing-byYr	0.1000 0.0005	1 No
Subalpine-Upper Montane Grassland	B-Closed	B-Closed	Native-Grazing	0.0200	1 No
Subalpine-Upper Montane Grassland	B-Closed	B-Closed	Summer-Cattle-Grazing-byYr	0.0127 0.0005	No
Subalpine-Upper Montane Grassland	B-Closed	B-Closed	Wild-Horse-Grazing	0.0200 0.9990	2 No
Subalpine-Upper Montane Grassland	B-Closed	U-B Unpalat. Forb	Feral-Horse-Grazing	0.0200 0.0005	No
Subalpine-Upper Montane Grassland	B-Closed	U-B Unpalat. Forb	Late-Spring-Cattle-Grazing-byYr	0.1000 0.9990	No
Subalpine-Upper Montane Grassland	B-Closed	U-B Unpalat. Forb	Wild-Horse-Grazing	0.0200 0.0005	No
Subalpine-Upper Montane Grassland	C-Open	A.All	Replacement Fire	0.0250	Yes
Subalpine-Upper Montane Grassland	C-Open	A.All	Snow Deposition	0.0670	Yes
Subalpine-Upper Montane Grassland	C-Open	C-Open	Early Spring-Cattle-Grazing-byYr	0.1000 0.9990	Yes
Subalpine-Upper Montane Grassland	C-Open	C-Open	Fall-Cattle-Grazing-byYr	0.0127 0.0005	No
Subalpine-Upper Montane Grassland	C-Open	C-Open	Feral-Horse-Grazing	0.0200 0.9990	2 No
Subalpine-Upper Montane Grassland	C-Open	C-Open	Late-Spring-Cattle-Grazing-byYr	0.1000 0.0005	1 No
Subalpine-Upper Montane Grassland	C-Open	C-Open	Native-Grazing	0.0200	1 No
Subalpine-Upper Montane Grassland	C-Open	C-Open	Summer-Cattle-Grazing-byYr	0.0127 0.0005	No
Subalpine-Upper Montane Grassland	C-Open	C-Open	Wild-Horse-Grazing	0.0200 0.9990	2 No
Subalpine-Upper Montane Grassland	C-Open	U-C Unpalat. Forb	Feral-Horse-Grazing	0.1000 0.0005	2 No
Subalpine-Upper Montane Grassland	C-Open	U-C Unpalat. Forb	Late-Spring-Cattle-Grazing-byYr	0.1000 0.9990	1 No
Subalpine-Upper Montane Grassland	C-Open	U-C Unpalat. Forb	Wild-Horse-Grazing	0.1000 0.0005	2 No
Subalpine-Upper Montane Grassland	U-A Unpalat. Forb	U-A Unpalat. Forb	Early Spring-Cattle-Grazing-byYr	0.1000 0.9990	No
Subalpine-Upper Montane Grassland	U-A Unpalat. Forb	U-A Unpalat. Forb	Fall-Cattle-Grazing-byYr	0.0127 0.0005	No
Subalpine-Upper Montane Grassland	U-A Unpalat. Forb	U-A Unpalat. Forb	Feral-Horse-Grazing	0.0200 0.9990	2 No
Subalpine-Upper Montane Grassland	U-A Unpalat. Forb	U-A Unpalat. Forb	Late-Spring-Cattle-Grazing-byYr	0.1000 0.0005	1 No
Subalpine-Upper Montane Grassland	U-A Unpalat. Forb	U-A Unpalat. Forb	Replacement Fire	0.0200	Yes
Subalpine-Upper Montane Grassland	U-A Unpalat. Forb	U-A Unpalat. Forb	Snow Deposition	0.0670	Yes
Subalpine-Upper Montane Grassland	U-A Unpalat. Forb	U-A Unpalat. Forb	Summer-Cattle-Grazing-byYr	0.0127 0.9990	No
Subalpine-Upper Montane Grassland	U-A Unpalat. Forb	U-A Unpalat. Forb	Wild-Horse-Grazing	0.0200 0.0005	2 No
Subalpine-Upper Montane Grassland	U-B Unpalat. Forb	U-A Unpalat. Forb	Replacement Fire	0.0200	Yes
Subalpine-Upper Montane Grassland	U-B Unpalat. Forb	U-A Unpalat. Forb	Snow Deposition	0.0670	Yes
Subalpine-Upper Montane Grassland	U-B Unpalat. Forb	U-B Unpalat. Forb	Early Spring-Cattle-Grazing-byYr	0.1000 0.9990	No
Subalpine-Upper Montane Grassland	U-B Unpalat. Forb	U-B Unpalat. Forb	Fall-Cattle-Grazing-byYr	0.0127 0.0005	No
Subalpine-Upper Montane Grassland	U-B Unpalat. Forb	U-B Unpalat. Forb	Feral-Horse-Grazing	0.0200 0.9990	2 No
Subalpine-Upper Montane Grassland	U-B Unpalat. Forb	U-B Unpalat. Forb	Late-Spring-Cattle-Grazing-byYr	0.1000 0.0005	1 No
Subalpine-Upper Montane Grassland	U-B Unpalat. Forb	U-B Unpalat. Forb	Summer-Cattle-Grazing-byYr	0.0127 0.9990	No
Subalpine-Upper Montane Grassland	U-B Unpalat. Forb	U-B Unpalat. Forb	Wild-Horse-Grazing	0.0200 0.0005	2 No
Subalpine-Upper Montane Grassland	U-C Unpalat. Forb	U-A Unpalat. Forb	Replacement Fire	0.0200	Yes
Subalpine-Upper Montane Grassland	U-C Unpalat. Forb	U-A Unpalat. Forb	Snow Deposition	0.0670	Yes
Subalpine-Upper Montane Grassland	U-C Unpalat. Forb	U-C Unpalat. Forb	Early Spring-Cattle-Grazing-byYr	0.1000 0.9990	No
Subalpine-Upper Montane Grassland	U-C Unpalat. Forb	U-C Unpalat. Forb	Fall-Cattle-Grazing-byYr	0.0127 0.0005	No
Subalpine-Upper Montane Grassland	U-C Unpalat. Forb	U-C Unpalat. Forb	Feral-Horse-Grazing	0.0200 0.9990	2 No
Subalpine-Upper Montane Grassland	U-C Unpalat. Forb	U-C Unpalat. Forb	Late-Spring-Cattle-Grazing-byYr	0.1000 0.0005	1 No
Subalpine-Upper Montane Grassland	U-C Unpalat. Forb	U-C Unpalat. Forb	Summer-Cattle-Grazing-byYr	0.0127 0.9990	No
Subalpine-Upper Montane Grassland	U-C Unpalat. Forb	U-C Unpalat. Forb	Wild-Horse-Grazing	0.0200 0.0005	2 No
Wet Meadow-bottomland	A.All	A.All	Early Spring-Cattle-Grazing-byYr	0.0556 0.9990	2 No
Wet Meadow-bottomland	A.All	A.All	Fall-Cattle-Grazing-byYr	0.0635 0.0005	1 No
Wet Meadow-bottomland	A.All	A.All	Feral-Horse-Grazing	0.0330 0.9990	Yes
Wet Meadow-bottomland	A.All	A.All	Flooding 2Yr	0.0500	Yes
Wet Meadow-bottomland	A.All	A.All	Late-Spring-Cattle-Grazing-byYr	0.0556 0.9990	1 No
Wet Meadow-bottomland	A.All	A.All	Severe Drought	0.0070	Yes
Wet Meadow-bottomland	A.All	A.All	Summer-Cattle-Grazing-byYr	0.0635 0.9990	No
Wet Meadow-bottomland	A.All	A.All	Weed-Inventories/Spot-Treat	0.0100	3 No
Wet Meadow-bottomland	A.All	A.All	Wild-Horse-Grazing	0.0330 0.9990	Yes
Wet Meadow-bottomland	A.All	U-A Exotic Forbs	Exotic Invasion	0.0010	5 No
Wet Meadow-bottomland	A.All	U-A Hummocked	Early Spring-Cattle-Grazing-byYr	0.0556 0.9990	Yes
Wet Meadow-bottomland	A.All	U-A Hummocked	Fall-Cattle-Grazing-byYr	0.0635 0.0005	Yes
Wet Meadow-bottomland	A.All	U-A Hummocked	Feral-Horse-Grazing	0.0330 0.9990	Yes
Wet Meadow-bottomland	A.All	U-A Hummocked	Late-Spring-Cattle-Grazing-byYr	0.0556 0.0005	Yes
Wet Meadow-bottomland	A.All	U-A Hummocked	Summer-Cattle-Grazing-byYr	0.0635 0.9990	Yes

Wet Meadow-bottomland	A.All	U-A Hummocked	Wild-Horse-Grazing	0.0330	0.0005	Yes	
Wet Meadow-bottomland	B.Closed	A.All	Flooding-100yr	0.0100		Yes	
Wet Meadow-bottomland	B.Closed	B.Closed	Early-Spring-Cattle-Grazing-byYr	0.0556	0.0005	No	
Wet Meadow-bottomland	B.Closed	B.Closed	Fall-Cattle-Grazing-byYr	0.0635	0.9990	No	
Wet Meadow-bottomland	B.Closed	B.Closed	FeralHorse-Grazing	0.0330	0.0005	2 Yes	
Wet Meadow-bottomland	B.Closed	B.Closed	Flooding-20Yr	0.0500		Yes	
Wet Meadow-bottomland	B.Closed	B.Closed	Late-Spring-Cattle-Grazing-byYr	0.0556	0.0005	1 No	20
Wet Meadow-bottomland	B.Closed	B.Closed	Severe-Drought	0.0070		1 No	
Wet Meadow-bottomland	B.Closed	B.Closed	Summer-Cattle-Grazing-byYr	0.0635	0.0005	1 No	20
Wet Meadow-bottomland	B.Closed	B.Closed	Weed-InventorYSpot-Treat	0.0100		No	3
Wet Meadow-bottomland	B.Closed	B.Closed	Wild-Horse-Grazing	0.0330	0.0005	2 Yes	
Wet Meadow-bottomland	B.Closed	C.Open	Alternate-Succession	1.0000		Yes	1
Wet Meadow-bottomland	B.Closed	U-A Hummocked	Early-Spring-Cattle-Grazing-byYr	0.0556	0.0005	2 Yes	
Wet Meadow-bottomland	B.Closed	U-A Hummocked	Fall-Cattle-Grazing-byYr	0.0635	0.9990	Yes	
Wet Meadow-bottomland	B.Closed	U-A Hummocked	FeralHorse-Grazing	0.0330	0.0005	Yes	
Wet Meadow-bottomland	B.Closed	U-A Hummocked	Late-Spring-Cattle-Grazing-byYr	0.0556	0.9990	Yes	20
Wet Meadow-bottomland	B.Closed	U-A Hummocked	Summer-Cattle-Grazing-byYr	0.0635	0.0005	Yes	20
Wet Meadow-bottomland	B.Closed	U-A Hummocked	Wild-Horse-Grazing	0.0330	0.9990	Yes	
Wet Meadow-bottomland	B.Closed	U-B Exotic Forbs	Exotic-Invasion	0.0010		No	5
Wet Meadow-bottomland	C.Open	A.All	Flooding-100Yr	0.0100		Yes	
Wet Meadow-bottomland	C.Open	B.Closed	Flooding-20Yr	0.0500		Yes	
Wet Meadow-bottomland	C.Open	C.Open	Early-Spring-Cattle-Grazing-byYr	0.0556	0.9995	1 No	
Wet Meadow-bottomland	C.Open	C.Open	Fall-Cattle-Grazing-byYr	0.0635	0.9995	No	
Wet Meadow-bottomland	C.Open	C.Open	FeralHorse-Grazing	0.0330	0.9990	2 Yes	
Wet Meadow-bottomland	C.Open	C.Open	Late-Spring-Cattle-Grazing-byYr	0.0556	0.9990	1 No	
Wet Meadow-bottomland	C.Open	C.Open	Severe-Drought	0.0070		1 No	
Wet Meadow-bottomland	C.Open	C.Open	Summer-Cattle-Grazing-byYr	0.0635	0.9995	No	
Wet Meadow-bottomland	C.Open	C.Open	Weed-InventorYSpot-Treat	0.0100		No	3
Wet Meadow-bottomland	C.Open	C.Open	Wild-Horse-Grazing	0.0330	0.9990	2 Yes	
Wet Meadow-bottomland	C.Open	U-A Hummocked	Early-Spring-Cattle-Grazing-byYr	0.0556	0.0005	Yes	
Wet Meadow-bottomland	C.Open	U-A Hummocked	Fall-Cattle-Grazing-byYr	0.0635	0.0005	Yes	
Wet Meadow-bottomland	C.Open	U-A Hummocked	FeralHorse-Grazing	0.0330	0.0005	Yes	
Wet Meadow-bottomland	C.Open	U-A Hummocked	Late-Spring-Cattle-Grazing-byYr	0.0556	0.0005	Yes	
Wet Meadow-bottomland	C.Open	U-A Hummocked	Summer-Cattle-Grazing-byYr	0.0635	0.0005	Yes	
Wet Meadow-bottomland	C.Open	U-A Hummocked	Wild-Horse-Grazing	0.0330	0.0005	Yes	
Wet Meadow-bottomland	C.Open	U-C Exotic Forbs	Exotic-Invasion	0.0010		No	5
Wet Meadow-bottomland	C.Open	U-C Shrb-Fri EnCr	FeralHorse-Grazing	0.0330	0.0005	2 No	
Wet Meadow-bottomland	C.Open	U-C Shrb-Fri EnCr	Late-Spring-Cattle-Grazing-byYr	0.0635	0.0005	1 No	
Wet Meadow-bottomland	C.Open	U-C Shrb-Fri EnCr	Wild-Horse-Grazing	0.0330	0.0005	1 No	
Wet Meadow-bottomland	U-A Annual Spp	A.All	Flooding-100Yr	0.0100	0.0100	Yes	
Wet Meadow-bottomland	U-A Annual Spp	U-A Annual Spp	Early-Spring-Cattle-Grazing-byYr	0.0556		Yes	
Wet Meadow-bottomland	U-A Annual Spp	U-A Annual Spp	Fall-Cattle-Grazing-byYr	0.0635		Yes	
Wet Meadow-bottomland	U-A Annual Spp	U-A Annual Spp	FeralHorse-Grazing	0.0330		2 Yes	
Wet Meadow-bottomland	U-A Annual Spp	U-A Annual Spp	Flooding-100Yr	0.0100	0.9900	Yes	
Wet Meadow-bottomland	U-A Annual Spp	U-A Annual Spp	Late-Spring-Cattle-Grazing-byYr	0.0556	0.9900	Yes	
Wet Meadow-bottomland	U-A Annual Spp	U-A Annual Spp	Replacement	0.0010		Yes	1
Wet Meadow-bottomland	U-A Annual Spp	U-A Annual Spp	Weed-InventorYSpot-Treat	0.0100		No	3
Wet Meadow-bottomland	U-A Annual Spp	U-A Annual Spp	Wild-Horse-Grazing	0.0330		2 Yes	
Wet Meadow-bottomland	U-A Annual Spp	U-A Inused-EFT	Exotic-Invasion	0.0010		No	5
Wet Meadow-bottomland	U-A All	A.All	Flooding-100Yr	0.0100	0.0100	Yes	
Wet Meadow-bottomland	U-A Desertified	U-A Bare Ground	Early-Spring-Cattle-Grazing-byYr	0.0556	0.0005	Yes	
Wet Meadow-bottomland	U-A Desertified	U-A Bare Ground	Fall-Cattle-Grazing-byYr	0.0635	0.0005	Yes	
Wet Meadow-bottomland	U-A Desertified	U-A Bare Ground	FeralHorse-Grazing	0.0330	0.0005	Yes	
Wet Meadow-bottomland	U-A Desertified	U-A Bare Ground	Late-Spring-Cattle-Grazing-byYr	0.0556	0.0005	Yes	
Wet Meadow-bottomland	U-A Desertified	U-A Bare Ground	Summer-Cattle-Grazing-byYr	0.0635	0.0005	Yes	
Wet Meadow-bottomland	U-A Desertified	U-A Bare Ground	Wild-Horse-Grazing	0.0330	0.0005	Yes	
Wet Meadow-bottomland	U-A Desertified	U-A Desertified	Early-Spring-Cattle-Grazing-byYr	0.0556	0.9995	No	
Wet Meadow-bottomland	U-A Desertified	U-A Desertified	Fall-Cattle-Grazing-byYr	0.0635	0.9995	No	
Wet Meadow-bottomland	U-A Desertified	U-A Desertified	FeralHorse-Grazing	0.0330	0.9990	2 No	
Wet Meadow-bottomland	U-A Desertified	U-A Desertified	Flooding-100Yr	0.0100	0.9900	Yes	
Wet Meadow-bottomland	U-A Desertified	U-A Desertified	Late-Spring-Cattle-Grazing-byYr	0.0556	0.9900	1 No	
Wet Meadow-bottomland	U-A Desertified	U-A Desertified	Replacement	0.0010		Yes	
Wet Meadow-bottomland	U-A Desertified	U-A Desertified	Severe-Drought	0.0070		Yes	
Wet Meadow-bottomland	U-A Desertified	U-A Desertified	Summer-Cattle-Grazing-byYr	0.0635	0.9995	No	
Wet Meadow-bottomland	U-A Desertified	U-A Desertified	Weed-InventorYSpot-Treat	0.0100		No	3
Wet Meadow-bottomland	U-A Desertified	U-A Desertified	Wild-Horse-Grazing	0.0330	0.9990	2 Yes	
Wet Meadow-bottomland	U-A Desertified	U-A Early ShrUb	FeralHorse-Grazing	0.0330	0.0005	Yes	
Wet Meadow-bottomland	U-A Desertified	U-A Early ShrUb	Late-Spring-Cattle-Grazing-byYr	0.0556	0.0005	Yes	
Wet Meadow-bottomland	U-A Desertified	U-A Early ShrUb	Wild-Horse-Grazing	0.0330	0.0005	Yes	
Wet Meadow-bottomland	U-A Desertified-EFT	U-A Inused-EFT	Exotic-Invasion	0.0010		No	5
Wet Meadow-bottomland	U-A Early Shrub	U-A SAP	AS-Invasion	0.0050		No	
Wet Meadow-bottomland	U-A Early Shrub	A.All	Flooding-100Yr	0.0100	0.0100	Yes	
Wet Meadow-bottomland	U-A Early Shrub	U-A Early Shrub	Flooding-100Yr	0.0100	0.9900	Yes	
Wet Meadow-bottomland	U-A Early Shrub	U-A Early Shrub	Replacement	0.0010		Yes	
Wet Meadow-bottomland	U-A Early Shrub	U-A Early Shrub	Weed-InventorYSpot-Treat	0.0100		No	3
Wet Meadow-bottomland	U-A Early Shrub	U-A Inused-EFT	Exotic-Invasion	0.0010		No	5
Wet Meadow-bottomland	U-A Exotic Forbs	A.All	Exotic-Control	0.0100	0.6000	Yes	20
Wet Meadow-bottomland	U-A Exotic Forbs	U-A Exotic Forbs	Early-Spring-Cattle-Grazing-byYr	0.0556		No	
Wet Meadow-bottomland	U-A Exotic Forbs	U-A Exotic Forbs	Exotic-Control	0.0100	0.4000	Yes	20
Wet Meadow-bottomland	U-A Exotic Forbs	U-A Exotic Forbs	Fall-Cattle-Grazing-byYr	0.0635		No	
Wet Meadow-bottomland	U-A Exotic Forbs	U-A Exotic Forbs	FeralHorse-Grazing	0.0330		2 No	
Wet Meadow-bottomland	U-A Exotic Forbs	U-A Exotic Forbs	Flooding-100Yr	0.0100		Yes	
Wet Meadow-bottomland	U-A Exotic Forbs	U-A Exotic Forbs	Flooding-20Yr	0.0500		Yes	
Wet Meadow-bottomland	U-A Exotic Forbs	U-A Exotic Forbs	Late-Spring-Cattle-Grazing-byYr	0.0556		1 No	
Wet Meadow-bottomland	U-A Exotic Forbs	U-A Exotic Forbs	Severe-Drought	0.0070		Yes	
Wet Meadow-bottomland	U-A Exotic Forbs	U-A Exotic Forbs	Summer-Cattle-Grazing-byYr	0.0635		No	
Wet Meadow-bottomland	U-A Exotic Forbs	U-A Exotic Forbs	Wild-Horse-Grazing	0.0330		2 No	
Wet Meadow-bottomland	U-A Hummocked	A.All	Natural-Recovery	1.0000		Yes	5
Wet Meadow-bottomland	U-A Hummocked	U-A Desertified	Early-Spring-Cattle-Grazing-byYr	0.0556	0.0005	Yes	
Wet Meadow-bottomland	U-A Hummocked	U-A Desertified	Fall-Cattle-Grazing-byYr	0.0635	0.0005	Yes	
Wet Meadow-bottomland	U-A Hummocked	U-A Desertified	FeralHorse-Grazing	0.0330	0.0010	2 Yes	
Wet Meadow-bottomland	U-A Hummocked	U-A Desertified	Late-Spring-Cattle-Grazing-byYr	0.0556	0.0010	Yes	
Wet Meadow-bottomland	U-A Hummocked	U-A Desertified	Summer-Cattle-Grazing-byYr	0.0635	0.0005	Yes	
Wet Meadow-bottomland	U-A Hummocked	U-A Desertified	Wild-Horse-Grazing	0.0330	0.0010	Yes	
Wet Meadow-bottomland	U-A Hummocked	U-A Exotic Forbs	Exotic-Invasion	0.0010		Yes	5
Wet Meadow-bottomland	U-A Hummocked	U-A Hummocked	Early-Spring-Cattle-Grazing-byYr	0.0556	0.9995	Yes	
Wet Meadow-bottomland	U-A Hummocked	U-A Hummocked	Fall-Cattle-Grazing-byYr	0.0635	0.9995	Yes	
Wet Meadow-bottomland	U-A Hummocked	U-A Hummocked	FeralHorse-Grazing	0.0330	0.9990	Yes	
Wet Meadow-bottomland	U-A Hummocked	U-A Hummocked	Flooding-100Yr	0.0100		Yes	
Wet Meadow-bottomland	U-A Hummocked	U-A Hummocked	Late-Spring-Cattle-Grazing-byYr	0.0556	0.9990	Yes	
Wet Meadow-bottomland	U-A Hummocked	U-A Hummocked	Summer-Cattle-Grazing-byYr	0.0635	0.9995	Yes	
Wet Meadow-bottomland	U-A Hummocked	U-A Hummocked	Weed-InventorYSpot-Treat	0.0100		No	3
Wet Meadow-bottomland	U-A Hummocked	U-A Hummocked	Wild-Horse-Grazing	0.0330	0.9990	Yes	
Wet Meadow-bottomland	U-A Inused-EFT	A.All	Floodplain-Restoration	0.0000		Yes	
Wet Meadow-bottomland	U-A Inused-EFT	U-A Desertified	Exotic-Control	0.0100	0.6000	Yes	20
Wet Meadow-bottomland	U-A Inused-EFT	U-A Inused-EFT	Early-Spring-Cattle-Grazing-byYr	0.0556		No	
Wet Meadow-bottomland	U-A Inused-EFT	U-A Inused-EFT	Exotic-Control	0.0100	0.4000	Yes	20
Wet Meadow-bottomland	U-A Inused-EFT	U-A Inused-EFT	Fall-Cattle-Grazing-byYr	0.0635		No	
Wet Meadow-bottomland	U-A Inused-EFT	U-A Inused-EFT	FeralHorse-Grazing	0.0330		2 No	20
Wet Meadow-bottomland	U-A Inused-EFT	U-A Inused-EFT	Late-Spring-Cattle-Grazing-byYr	0.0556		1 No	
Wet Meadow-bottomland	U-A Inused-EFT	U-A Inused-EFT	Replacement	0.0010		Yes	
Wet Meadow-bottomland	U-A Inused-EFT	U-A Inused-EFT	Summer-Cattle-Grazing-byYr	0.0635		No	
Wet Meadow-bottomland	U-A Inused-EFT	U-A Inused-EFT	Wild-Horse-Grazing	0.0330		2 No	20
Wet Meadow-bottomland	U-A Pasture	U-A Pasture	Early-Spring-Cattle-Grazing-byYr	0.0556		No	
Wet Meadow-bottomland	U-A Pasture	U-A Pasture	Fall-Cattle-Grazing-byYr	0.0635		No	
Wet Meadow-bottomland	U-A Pasture	U-A Pasture	FeralHorse-Grazing	0.0330		2 No	
Wet Meadow-bottomland	U-A Pasture	U-A Pasture	Late-Spring-Cattle-Grazing-byYr	0.0556		1 No	
Wet Meadow-bottomland	U-A Pasture	U-A Pasture	Summer-Cattle-Grazing-byYr	0.0635		No	

Wet Meadow-bottomland	U-A Pasture	U-A Pasture	Wild-Horse-Grazing	0.0300		2	No	
Wet Meadow-bottomland	U-A SAP	A All	Flooding-100yr	0.0100	0.0100		Yes	
Wet Meadow-bottomland	U-A SAP	A All	Floodplain-Restoration	0.0000			Yes	
Wet Meadow-bottomland	U-A SAP	U-A Annual Spp	Early-Spring-Cattle-Grazing-byYr	0.0556	0.0005		Yes	
Wet Meadow-bottomland	U-A SAP	U-A Annual Spp	Fall-Cattle-Grazing-byYr	0.0635	0.0005		Yes	
Wet Meadow-bottomland	U-A SAP	U-A Annual Spp	Feral-Horse-Grazing	0.0300	0.0010		Yes	
Wet Meadow-bottomland	U-A SAP	U-A Annual Spp	Late-Spring-Cattle-Grazing-byYr	0.0556	0.0010		Yes	
Wet Meadow-bottomland	U-A SAP	U-A Annual Spp	ReplacementFire	0.0250			Yes	
Wet Meadow-bottomland	U-A SAP	U-A Annual Spp	Summer-Cattle-Grazing-byYr	0.0635	0.0005		Yes	
Wet Meadow-bottomland	U-A SAP	U-A Annual Spp	Wild-Horse-Grazing	0.0300	0.0010		Yes	
Wet Meadow-bottomland	U-A SAP	U-A Inused-EFT	Exotic-Invasion	0.0010			No	
Wet Meadow-bottomland	U-A SAP	U-A SAP	Early-Spring-Cattle-Grazing-byYr	0.0556	0.9995		No	
Wet Meadow-bottomland	U-A SAP	U-A SAP	Fall-Cattle-Grazing-byYr	0.0635	0.9995		No	
Wet Meadow-bottomland	U-A SAP	U-A SAP	Feral-Horse-Grazing	0.0300	0.9990		2	Yes
Wet Meadow-bottomland	U-A SAP	U-A SAP	Flooding-100yr	0.0100	0.9900		Yes	
Wet Meadow-bottomland	U-A SAP	U-A SAP	Late-Spring-Cattle-Grazing-byYr	0.0556	0.9990		1	No
Wet Meadow-bottomland	U-A SAP	U-A SAP	Severe-Drought	0.0070	0.1000		Yes	
Wet Meadow-bottomland	U-A SAP	U-A SAP	Summer-Cattle-Grazing-byYr	0.0635	0.9995		No	
Wet Meadow-bottomland	U-A SAP	U-A SAP	Weed-InventoriesSpot-Treat	0.0100			3	No
Wet Meadow-bottomland	U-A SAP	U-A SAP	Wild-Horse-Grazing	0.0300	0.9990		2	Yes
Wet Meadow-bottomland	U-A SAP	U-B SAP	Severe-Drought	0.0070	0.9000		Yes	
Wet Meadow-bottomland	U-A Shrb-Frb Enr	A All	Natural-Recovery	1.0000			10	No
Wet Meadow-bottomland	U-A Shrb-Frb Enr	U-A Desertified	Early-Spring-Cattle-Grazing-byYr	0.0556	0.0005		Yes	
Wet Meadow-bottomland	U-A Shrb-Frb Enr	U-A Desertified	Fall-Cattle-Grazing-byYr	0.0635	0.0005		Yes	
Wet Meadow-bottomland	U-A Shrb-Frb Enr	U-A Desertified	Feral-Horse-Grazing	0.0300	0.0010		Yes	
Wet Meadow-bottomland	U-A Shrb-Frb Enr	U-A Desertified	Summer-Cattle-Grazing-byYr	0.0635	0.0005		Yes	
Wet Meadow-bottomland	U-A Shrb-Frb Enr	U-A Desertified	Wild-Horse-Grazing	0.0300	0.0010		Yes	
Wet Meadow-bottomland	U-A Shrb-Frb Enr	U-A Exotic Forbs	Exotic-Invasion	0.0010			5	No
Wet Meadow-bottomland	U-A Shrb-Frb Enr	U-A Shrb-Frb Enr	Early-Spring-Cattle-Grazing-byYr	0.0556	0.9995		No	
Wet Meadow-bottomland	U-A Shrb-Frb Enr	U-A Shrb-Frb Enr	Fall-Cattle-Grazing-byYr	0.0635	0.9995		No	
Wet Meadow-bottomland	U-A Shrb-Frb Enr	U-A Shrb-Frb Enr	Feral-Horse-Grazing	0.0300	0.9990		2	No
Wet Meadow-bottomland	U-A Shrb-Frb Enr	U-A Shrb-Frb Enr	Flooding-20yr	0.0500			1	No
Wet Meadow-bottomland	U-A Shrb-Frb Enr	U-A Shrb-Frb Enr	Late-Spring-Cattle-Grazing-byYr	0.0556	0.9990		Yes	
Wet Meadow-bottomland	U-A Shrb-Frb Enr	U-A Shrb-Frb Enr	Summer-Cattle-Grazing-byYr	0.0635	0.9995		No	
Wet Meadow-bottomland	U-A Shrb-Frb Enr	U-A Shrb-Frb Enr	Weed-InventoriesSpot-Treat	0.0100			3	No
Wet Meadow-bottomland	U-A Shrb-Frb Enr	U-A Shrb-Frb Enr	Wild-Horse-Grazing	0.0300	0.9990		2	No
Wet Meadow-bottomland	U-A Shrb-Frb Enr	A All	Flooding-100yr	0.0100	0.9900		Yes	
Wet Meadow-bottomland	U-B Depleted	U-A Early Shrub	Flooding-100yr	0.0100	0.9900		Yes	
Wet Meadow-bottomland	U-B Depleted	U-A Early Shrub	ReplacementFire	0.0010			Yes	
Wet Meadow-bottomland	U-B Depleted	U-B Depleted	Severe-Drought	0.0070	0.9000		Yes	
Wet Meadow-bottomland	U-B Depleted	U-B Depleted	Weed-InventoriesSpot-Treat	0.0100			3	No
Wet Meadow-bottomland	U-B Depleted	U-B Early Shrub	Severe-Drought	0.0070	0.1000		Yes	
Wet Meadow-bottomland	U-B Depleted	U-B Inused-EFT	Exotic-Invasion	0.0010			5	No
Wet Meadow-bottomland	U-B Depleted	U-B SAP	AS-Invasion	0.0050			No	
Wet Meadow-bottomland	U-B Desertified	A All	Flooding-100yr	0.0100	0.0100		Yes	
Wet Meadow-bottomland	U-B Desertified	U-A Bare Ground	Early-Spring-Cattle-Grazing-byYr	0.0556	0.0005		Yes	
Wet Meadow-bottomland	U-B Desertified	U-A Bare Ground	Fall-Cattle-Grazing-byYr	0.0635	0.0005		Yes	
Wet Meadow-bottomland	U-B Desertified	U-A Bare Ground	Feral-Horse-Grazing	0.0300	0.0005		Yes	
Wet Meadow-bottomland	U-B Desertified	U-A Bare Ground	Late-Spring-Cattle-Grazing-byYr	0.0556	0.0005		Yes	
Wet Meadow-bottomland	U-B Desertified	U-A Bare Ground	Summer-Cattle-Grazing-byYr	0.0635	0.0005		Yes	
Wet Meadow-bottomland	U-B Desertified	U-A Bare Ground	Wild-Horse-Grazing	0.0300	0.0005		Yes	
Wet Meadow-bottomland	U-B Desertified	U-A Desertified	Flooding-100yr	0.0100	0.9900		Yes	
Wet Meadow-bottomland	U-B Desertified	U-A Desertified	ReplacementFire	0.0010			Yes	
Wet Meadow-bottomland	U-B Desertified	U-A Desertified	Severe-Drought	0.0070	0.1000		Yes	
Wet Meadow-bottomland	U-B Desertified	U-A Early Shrub	Feral-Horse-Grazing	0.0300	0.0005		No	
Wet Meadow-bottomland	U-B Desertified	U-A Early Shrub	Late-Spring-Cattle-Grazing-byYr	0.0556	0.0005		Yes	
Wet Meadow-bottomland	U-B Desertified	U-A Early Shrub	Wild-Horse-Grazing	0.0300	0.0005		Yes	
Wet Meadow-bottomland	U-B Desertified	U-B Desertified	Early-Spring-Cattle-Grazing-byYr	0.0556	0.9995		No	
Wet Meadow-bottomland	U-B Desertified	U-B Desertified	Fall-Cattle-Grazing-byYr	0.0635	0.9995		No	
Wet Meadow-bottomland	U-B Desertified	U-B Desertified	Feral-Horse-Grazing	0.0300	0.9990		2	No
Wet Meadow-bottomland	U-B Desertified	U-B Desertified	Late-Spring-Cattle-Grazing-byYr	0.0556	0.9990		1	No
Wet Meadow-bottomland	U-B Desertified	U-B Desertified	Severe-Drought	0.0070	0.9000		Yes	
Wet Meadow-bottomland	U-B Desertified	U-B Desertified	Summer-Cattle-Grazing-byYr	0.0635	0.9995		No	
Wet Meadow-bottomland	U-B Desertified	U-B Desertified	Weed-InventoriesSpot-Treat	0.0100			3	No
Wet Meadow-bottomland	U-B Desertified	U-B Desertified	Wild-Horse-Grazing	0.0300	0.9990		2	No
Wet Meadow-bottomland	U-B Desertified	U-B Inused-EFT	Exotic-Invasion	0.0010			5	No
Wet Meadow-bottomland	U-B Desertified	U-B SAP	AS-Invasion	0.0050			No	
Wet Meadow-bottomland	U-B Early Shrub	A All	Flooding-100yr	0.0100	0.0100		Yes	
Wet Meadow-bottomland	U-B Early Shrub	U-A Early Shrub	Flooding-100yr	0.0100	0.9900		Yes	
Wet Meadow-bottomland	U-B Early Shrub	U-A Early Shrub	ReplacementFire	0.0010			Yes	
Wet Meadow-bottomland	U-B Early Shrub	U-B Early Shrub	Weed-InventoriesSpot-Treat	0.0100			3	No
Wet Meadow-bottomland	U-B Early Shrub	U-B Inused-EFT	Exotic-Invasion	0.0010			5	No
Wet Meadow-bottomland	U-B Exotic Forbs	B Closed	Exotic-Control	0.0100	0.6000		Yes	20
Wet Meadow-bottomland	U-B Exotic Forbs	U-A Exotic Forbs	Exotic-Control	0.0100	0.4000		Yes	20
Wet Meadow-bottomland	U-B Exotic Forbs	U-A Exotic Forbs	Flooding-100yr	0.0100			Yes	
Wet Meadow-bottomland	U-B Exotic Forbs	U-B Exotic Forbs	Early-Spring-Cattle-Grazing-byYr	0.0556	0.0005		1	No
Wet Meadow-bottomland	U-B Exotic Forbs	U-B Exotic Forbs	Fall-Cattle-Grazing-byYr	0.0635	0.9990		No	
Wet Meadow-bottomland	U-B Exotic Forbs	U-B Exotic Forbs	Feral-Horse-Grazing	0.0300	0.0005		2	No
Wet Meadow-bottomland	U-B Exotic Forbs	U-B Exotic Forbs	Flooding-20yr	0.0500			3	Yes
Wet Meadow-bottomland	U-B Exotic Forbs	U-B Exotic Forbs	Late-Spring-Cattle-Grazing-byYr	0.0556	0.0005		1	No
Wet Meadow-bottomland	U-B Exotic Forbs	U-B Exotic Forbs	Severe-Drought	0.0070			1	No
Wet Meadow-bottomland	U-B Exotic Forbs	U-B Exotic Forbs	Summer-Cattle-Grazing-byYr	0.0635	0.0005		No	
Wet Meadow-bottomland	U-B Exotic Forbs	U-B Exotic Forbs	Wild-Horse-Grazing	0.0300	0.9990		2	No
Wet Meadow-bottomland	U-B Inused-EFT	A All	Floodplain-Restoration	0.0000			Yes	
Wet Meadow-bottomland	U-B Inused-EFT	U-A Desertified	Exotic-Control	0.0100	0.6000		Yes	20
Wet Meadow-bottomland	U-B Inused-EFT	U-A Inused-EFT	Exotic-Control	0.0100	0.4000		Yes	20
Wet Meadow-bottomland	U-B Inused-EFT	U-A Inused-EFT	ReplacementFire	0.0100			Yes	
Wet Meadow-bottomland	U-B Inused-EFT	U-B Inused-EFT	Early-Spring-Cattle-Grazing-byYr	0.0556	0.0005		No	
Wet Meadow-bottomland	U-B Inused-EFT	U-B Inused-EFT	Fall-Cattle-Grazing-byYr	0.0635	0.9990		No	
Wet Meadow-bottomland	U-B Inused-EFT	U-B Inused-EFT	Feral-Horse-Grazing	0.0300	0.0005		2	No
Wet Meadow-bottomland	U-B Inused-EFT	U-B Inused-EFT	Late-Spring-Cattle-Grazing-byYr	0.0556	0.9990		1	No
Wet Meadow-bottomland	U-B Inused-EFT	U-B Inused-EFT	Summer-Cattle-Grazing-byYr	0.0635	0.0005		No	
Wet Meadow-bottomland	U-B Inused-EFT	U-B Inused-EFT	Wild-Horse-Grazing	0.0300	0.9990		2	No
Wet Meadow-bottomland	U-B SAP	A All	Flooding-100yr	0.0100	0.0100		Yes	
Wet Meadow-bottomland	U-B SAP	U-A Annual Spp	Early-Spring-Cattle-Grazing-byYr	0.0556	0.0005		Yes	
Wet Meadow-bottomland	U-B SAP	U-A Annual Spp	Fall-Cattle-Grazing-byYr	0.0635	0.0005		Yes	
Wet Meadow-bottomland	U-B SAP	U-A Annual Spp	Feral-Horse-Grazing	0.0300	0.0010		Yes	
Wet Meadow-bottomland	U-B SAP	U-A Annual Spp	Late-Spring-Cattle-Grazing-byYr	0.0556	0.0010		Yes	
Wet Meadow-bottomland	U-B SAP	U-A Annual Spp	ReplacementFire	0.0250			Yes	
Wet Meadow-bottomland	U-B SAP	U-A Annual Spp	Summer-Cattle-Grazing-byYr	0.0635	0.0005		Yes	
Wet Meadow-bottomland	U-B SAP	U-A Annual Spp	Wild-Horse-Grazing	0.0300	0.0010		Yes	
Wet Meadow-bottomland	U-B SAP	U-A SAP	Flooding-100yr	0.0100	0.9900		Yes	
Wet Meadow-bottomland	U-B SAP	U-A SAP	Severe-Drought	0.0070	0.1000		Yes	
Wet Meadow-bottomland	U-B SAP	U-B Inused-EFT	Exotic-Invasion	0.0010			5	No
Wet Meadow-bottomland	U-B SAP	U-B SAP	Early-Spring-Cattle-Grazing-byYr	0.0556	0.9995		No	
Wet Meadow-bottomland	U-B SAP	U-B SAP	Fall-Cattle-Grazing-byYr	0.0635	0.9995		No	
Wet Meadow-bottomland	U-B SAP	U-B SAP	Feral-Horse-Grazing	0.0300	0.9990		2	No
Wet Meadow-bottomland	U-B SAP	U-B SAP	Late-Spring-Cattle-Grazing-byYr	0.0556	0.9990		1	No
Wet Meadow-bottomland	U-B SAP	U-B SAP	Severe-Drought	0.0070	0.9000		Yes	
Wet Meadow-bottomland	U-B SAP	U-B SAP	Summer-Cattle-Grazing-byYr	0.0635	0.9995		No	
Wet Meadow-bottomland	U-B SAP	U-B SAP	Weed-InventoriesSpot-Treat	0.0100			3	No
Wet Meadow-bottomland	U-B SAP	U-B SAP	Wild-Horse-Grazing	0.0300	0.9990		2	No
Wet Meadow-bottomland	U-B Shrb-Frb Enr	B Closed	Natural-Recovery	1.0000			10	No
Wet Meadow-bottomland	U-B Shrb-Frb Enr	U-A Shrb-Frb Enr	Flooding-100yr	0.0100			Yes	
Wet Meadow-bottomland	U-B Shrb-Frb Enr	U-B Desertified	Early-Spring-Cattle-Grazing-byYr	0.0556	0.0005		Yes	
Wet Meadow-bottomland	U-B Shrb-Frb Enr	U-B Desertified	Fall-Cattle-Grazing-byYr	0.0635	0.0005		Yes	
Wet Meadow-bottomland	U-B Shrb-Frb Enr	U-B Desertified	Feral-Horse-Grazing	0.0300	0.9990		Yes	

Wet Meadow-bottomland	U-B Shrb-Fib Encr	U-B Desertified	Late-Spring-Cattle-Grazing-byYr	0.0556	0.0010	Yes
Wet Meadow-bottomland	U-B Shrb-Fib Encr	U-B Desertified	Summer-Cattle-Grazing-byYr	0.0635	0.0005	Yes
Wet Meadow-bottomland	U-B Shrb-Fib Encr	U-B Desertified	Wild-Horse-Grazing	0.0330	0.0010	Yes
Wet Meadow-bottomland	U-B Shrb-Fib Encr	U-B Exotic Forbs	Exotic-Invasion	0.0010		No
Wet Meadow-bottomland	U-B Shrb-Fib Encr	U-B Shrb-Fib Encr	Early-Spring-Cattle-Grazing-byYr	0.0556	0.9995	No
Wet Meadow-bottomland	U-B Shrb-Fib Encr	U-B Shrb-Fib Encr	Fall-Cattle-Grazing-byYr	0.0635	0.9995	No
Wet Meadow-bottomland	U-B Shrb-Fib Encr	U-B Shrb-Fib Encr	FeralHorse-Grazing	0.0330	0.0001	2 No
Wet Meadow-bottomland	U-B Shrb-Fib Encr	U-B Shrb-Fib Encr	Flooding-20Yr	0.0500		Yes
Wet Meadow-bottomland	U-B Shrb-Fib Encr	U-B Shrb-Fib Encr	Late-Spring-Cattle-Grazing-byYr	0.0556	0.9990	1 No
Wet Meadow-bottomland	U-B Shrb-Fib Encr	U-B Shrb-Fib Encr	Summer-Cattle-Grazing-byYr	0.0635	0.9995	No
Wet Meadow-bottomland	U-B Shrb-Fib Encr	U-B Shrb-Fib Encr	WeedInventorySpot-Treat	0.0100		No
Wet Meadow-bottomland	U-B Shrb-Fib Encr	U-B Shrb-Fib Encr	Wild-Horse-Grazing	0.0330	0.9990	2 No
Wet Meadow-bottomland	U-C Depleted	A.All	Flooding-100Yr	0.0100	0.0100	Yes
Wet Meadow-bottomland	U-C Depleted	U-A Early Shrub	Flooding-100Yr	0.0100	0.9900	Yes
Wet Meadow-bottomland	U-C Depleted	U-A Early Shrub	ReplacemntFire	0.0010		Yes
Wet Meadow-bottomland	U-C Depleted	U-B Desertified	Severe-Drought	0.0070	0.1000	Yes
Wet Meadow-bottomland	U-C Depleted	U-C Depleted	Severe-Drought	0.0070	0.9000	Yes
Wet Meadow-bottomland	U-C Depleted	U-C Depleted	WeedInventorySpot-Treat	0.0100		No
Wet Meadow-bottomland	U-C Depleted	U-C Incdse-EFT	Exotic-Invasion	0.0010		No
Wet Meadow-bottomland	U-C Depleted	U-C SAP	AS-Invasion	0.0050		No
Wet Meadow-bottomland	U-C Desertified	A.All	Flooding-100Yr	0.0100	0.0100	Yes
Wet Meadow-bottomland	U-C Desertified	U-A Bare Ground	Early-Spring-Cattle-Grazing-byYr	0.0556	0.0005	Yes
Wet Meadow-bottomland	U-C Desertified	U-A Bare Ground	Fall-Cattle-Grazing-byYr	0.0635	0.0005	Yes
Wet Meadow-bottomland	U-C Desertified	U-A Bare Ground	FeralHorse-Grazing	0.0330	0.0005	Yes
Wet Meadow-bottomland	U-C Desertified	U-A Bare Ground	Late-Spring-Cattle-Grazing-byYr	0.0556	0.0005	Yes
Wet Meadow-bottomland	U-C Desertified	U-A Bare Ground	Summer-Cattle-Grazing-byYr	0.0635	0.0005	Yes
Wet Meadow-bottomland	U-C Desertified	U-A Bare Ground	Wild-Horse-Grazing	0.0330	0.0005	Yes
Wet Meadow-bottomland	U-C Desertified	U-A Desertified	Flooding-100Yr	0.0100	0.9900	Yes
Wet Meadow-bottomland	U-C Desertified	U-A Desertified	ReplacemntFire	0.0010		Yes
Wet Meadow-bottomland	U-C Desertified	U-B Desertified	Severe-Drought	0.0070	0.1000	Yes
Wet Meadow-bottomland	U-C Desertified	U-C Depleted	FeralHorse-Grazing	0.0330	0.0005	No
Wet Meadow-bottomland	U-C Desertified	U-C Depleted	Late-Spring-Cattle-Grazing-byYr	0.0556	0.0005	1 No
Wet Meadow-bottomland	U-C Desertified	U-C Depleted	Wild-Horse-Grazing	0.0330	0.0005	No
Wet Meadow-bottomland	U-C Desertified	U-C Desertified	Early-Spring-Cattle-Grazing-byYr	0.0556	0.9995	No
Wet Meadow-bottomland	U-C Desertified	U-C Desertified	Fall-Cattle-Grazing-byYr	0.0635	0.9995	No
Wet Meadow-bottomland	U-C Desertified	U-C Desertified	FeralHorse-Grazing	0.0330	0.9990	2 No
Wet Meadow-bottomland	U-C Desertified	U-C Desertified	Late-Spring-Cattle-Grazing-byYr	0.0556	0.9990	1 No
Wet Meadow-bottomland	U-C Desertified	U-C Desertified	Severe-Drought	0.0070	0.9000	Yes
Wet Meadow-bottomland	U-C Desertified	U-C Desertified	Summer-Cattle-Grazing-byYr	0.0635	0.9995	No
Wet Meadow-bottomland	U-C Desertified	U-C Desertified	WeedInventorySpot-Treat	0.0100		No
Wet Meadow-bottomland	U-C Desertified	U-C Desertified	Wild-Horse-Grazing	0.0330	0.9990	2 No
Wet Meadow-bottomland	U-C Incdse-EFT	U-C Incdse-EFT	Exotic-Invasion	0.0010		No
Wet Meadow-bottomland	U-C SAP	U-C SAP	AS-Invasion	0.0050		No
Wet Meadow-bottomland	U-C Early Shrub	A.All	Flooding-100Yr	0.0100	0.0100	Yes
Wet Meadow-bottomland	U-C Early Shrub	U-A Early Shrub	Flooding-100Yr	0.0100	0.9900	Yes
Wet Meadow-bottomland	U-C Early Shrub	U-A Early Shrub	ReplacemntFire	0.0010		Yes
Wet Meadow-bottomland	U-C Early Shrub	U-C Early Shrub	WeedInventorySpot-Treat	0.0100		No
Wet Meadow-bottomland	U-C Early Shrub	U-C Incdse-EFT	Exotic-Invasion	0.0010		No
Wet Meadow-bottomland	U-C Exotic Forbs	C.Open	Exotic-Control	0.0100	0.6000	Yes
Wet Meadow-bottomland	U-C Exotic Forbs	U-A Exotic Forbs	Exotic-Control	0.0100	0.4000	Yes
Wet Meadow-bottomland	U-C Exotic Forbs	U-A Exotic Forbs	Flooding-100Yr	0.0100		Yes
Wet Meadow-bottomland	U-C Exotic Forbs	U-B Exotic Forbs	Flooding-20Yr	0.0500		Yes
Wet Meadow-bottomland	U-C Exotic Forbs	U-C Exotic Forbs	Early-Spring-Cattle-Grazing-byYr	0.0556		No
Wet Meadow-bottomland	U-C Exotic Forbs	U-C Exotic Forbs	Fall-Cattle-Grazing-byYr	0.0635		No
Wet Meadow-bottomland	U-C Exotic Forbs	U-C Exotic Forbs	FeralHorse-Grazing	0.0330		2 No
Wet Meadow-bottomland	U-C Exotic Forbs	U-C Exotic Forbs	Late-Spring-Cattle-Grazing-byYr	0.0556		1 No
Wet Meadow-bottomland	U-C Exotic Forbs	U-C Exotic Forbs	Severe-Drought	0.0070		1 No
Wet Meadow-bottomland	U-C Exotic Forbs	U-C Exotic Forbs	Summer-Cattle-Grazing-byYr	0.0635		2 No
Wet Meadow-bottomland	U-C Exotic Forbs	U-C Exotic Forbs	Wild-Horse-Grazing	0.0330		2 No
Wet Meadow-bottomland	U-C Incdse-EFT	A.All	Floodplan-Restoration	0.0000		Yes
Wet Meadow-bottomland	U-C Incdse-EFT	U-A Desertified	Exotic-Control	0.0100	0.6000	Yes
Wet Meadow-bottomland	U-C Incdse-EFT	U-A Incdse-EFT	Exotic-Control	0.0100	0.4000	Yes
Wet Meadow-bottomland	U-C Incdse-EFT	U-A Incdse-EFT	ReplacemntFire	0.0100		Yes
Wet Meadow-bottomland	U-C Incdse-EFT	U-C Incdse-EFT	Early-Spring-Cattle-Grazing-byYr	0.0556		No
Wet Meadow-bottomland	U-C Incdse-EFT	U-C Incdse-EFT	Fall-Cattle-Grazing-byYr	0.0635		No
Wet Meadow-bottomland	U-C Incdse-EFT	U-C Incdse-EFT	FeralHorse-Grazing	0.0330		2 No
Wet Meadow-bottomland	U-C Incdse-EFT	U-C Incdse-EFT	Late-Spring-Cattle-Grazing-byYr	0.0556		1 No
Wet Meadow-bottomland	U-C Incdse-EFT	U-C Incdse-EFT	Summer-Cattle-Grazing-byYr	0.0635		No
Wet Meadow-bottomland	U-C Incdse-EFT	U-C Incdse-EFT	Wild-Horse-Grazing	0.0330		2 No
Wet Meadow-bottomland	U-A All	A.All	Flooding-100Yr	0.0100	0.0100	Yes
Wet Meadow-bottomland	U-CSAP	A.All	Floodplan-Restoration	0.0000		Yes
Wet Meadow-bottomland	U-CSAP	U-A Annual Spp	Early-Spring-Cattle-Grazing-byYr	0.0556	0.0005	Yes
Wet Meadow-bottomland	U-CSAP	U-A Annual Spp	Fall-Cattle-Grazing-byYr	0.0635	0.0005	Yes
Wet Meadow-bottomland	U-CSAP	U-A Annual Spp	FeralHorse-Grazing	0.0330	0.0010	Yes
Wet Meadow-bottomland	U-CSAP	U-A Annual Spp	Late-Spring-Cattle-Grazing-byYr	0.0556	0.0010	Yes
Wet Meadow-bottomland	U-CSAP	U-A Annual Spp	ReplacemntFire	0.0250		Yes
Wet Meadow-bottomland	U-CSAP	U-A Annual Spp	Summer-Cattle-Grazing-byYr	0.0635	0.0005	Yes
Wet Meadow-bottomland	U-CSAP	U-A Annual Spp	Wild-Horse-Grazing	0.0330	0.0010	Yes
Wet Meadow-bottomland	U-CSAP	U-A Annual Spp	Flooding-100Yr	0.0100	0.9900	Yes
Wet Meadow-bottomland	U-CSAP	U-B SAP	Severe-Drought	0.0070	0.1000	Yes
Wet Meadow-bottomland	U-CSAP	U-C Incdse-EFT	Exotic-Invasion	0.0010		No
Wet Meadow-bottomland	U-CSAP	U-CSAP	Early-Spring-Cattle-Grazing-byYr	0.0556	0.9995	No
Wet Meadow-bottomland	U-CSAP	U-CSAP	Fall-Cattle-Grazing-byYr	0.0635	0.9995	No
Wet Meadow-bottomland	U-CSAP	U-CSAP	FeralHorse-Grazing	0.0330	0.9990	2 No
Wet Meadow-bottomland	U-CSAP	U-CSAP	Late-Spring-Cattle-Grazing-byYr	0.0556	0.9990	1 No
Wet Meadow-bottomland	U-CSAP	U-CSAP	Severe-Drought	0.0070	0.9000	Yes
Wet Meadow-bottomland	U-CSAP	U-CSAP	Summer-Cattle-Grazing-byYr	0.0635	0.9995	No
Wet Meadow-bottomland	U-CSAP	U-CSAP	WeedInventorySpot-Treat	0.0100		No
Wet Meadow-bottomland	U-CSAP	U-CSAP	Wild-Horse-Grazing	0.0330	0.9990	2 No
Wet Meadow-bottomland	U-CSHrb-Fib Encr	C.Open	NatureRecovery	1.0000		No
Wet Meadow-bottomland	U-CSHrb-Fib Encr	U-A Shrb-Fib Encr	Flooding-100Yr	0.0100		Yes
Wet Meadow-bottomland	U-CSHrb-Fib Encr	U-B Desertified	Late-Spring-Cattle-Grazing-byYr	0.0556	0.9990	Yes
Wet Meadow-bottomland	U-CSHrb-Fib Encr	U-B Shrb-Fib Encr	Flooding-20Yr	0.0500		Yes
Wet Meadow-bottomland	U-CSHrb-Fib Encr	U-C Desertified	Early-Spring-Cattle-Grazing-byYr	0.0556	0.0005	Yes
Wet Meadow-bottomland	U-CSHrb-Fib Encr	U-C Desertified	Fall-Cattle-Grazing-byYr	0.0635	0.0005	Yes
Wet Meadow-bottomland	U-CSHrb-Fib Encr	U-C Desertified	FeralHorse-Grazing	0.0330	0.0010	Yes
Wet Meadow-bottomland	U-CSHrb-Fib Encr	U-C Desertified	Summer-Cattle-Grazing-byYr	0.0635	0.0005	Yes
Wet Meadow-bottomland	U-CSHrb-Fib Encr	U-C Desertified	Wild-Horse-Grazing	0.0330	0.0010	Yes
Wet Meadow-bottomland	U-CSHrb-Fib Encr	U-C Exotic Forbs	Exotic-Invasion	0.0010		No
Wet Meadow-bottomland	U-CSHrb-Fib Encr	U-CSHrb-Fib Encr	Early-Spring-Cattle-Grazing-byYr	0.0556	0.9995	No
Wet Meadow-bottomland	U-CSHrb-Fib Encr	U-CSHrb-Fib Encr	Fall-Cattle-Grazing-byYr	0.0635	0.9995	No
Wet Meadow-bottomland	U-CSHrb-Fib Encr	U-CSHrb-Fib Encr	FeralHorse-Grazing	0.0330	0.9990	2 No
Wet Meadow-bottomland	U-CSHrb-Fib Encr	U-CSHrb-Fib Encr	Late-Spring-Cattle-Grazing-byYr	0.0556	0.0110	No
Wet Meadow-bottomland	U-CSHrb-Fib Encr	U-CSHrb-Fib Encr	Summer-Cattle-Grazing-byYr	0.0635	0.9995	No
Wet Meadow-bottomland	U-CSHrb-Fib Encr	U-CSHrb-Fib Encr	WeedInventorySpot-Treat	0.0100		No
Wet Meadow-bottomland	U-CSHrb-Fib Encr	U-CSHrb-Fib Encr	Wild-Horse-Grazing	0.0330	0.9990	2 No
Wet Meadow-Montane	A.All	A.All	Early-Spring-Cattle-Grazing-byYr	0.0472	0.9995	No
Wet Meadow-Montane	A.All	A.All	Fall-Cattle-Grazing-byYr	0.0540	0.9995	No
Wet Meadow-Montane	A.All	A.All	Fence&Water-Delivery	0.0100		No
Wet Meadow-Montane	A.All	A.All	Fence-Inspect&Maintain	0.0100		No
Wet Meadow-Montane	A.All	A.All	FeralHorse-Grazing	0.0280	0.9990	No
Wet Meadow-Montane	A.All	A.All	Late-Spring-Cattle-Grazing-byYr	0.0472	0.9990	No
Wet Meadow-Montane	A.All	A.All	NativeGrazing	0.0200		Yes
Wet Meadow-Montane	A.All	A.All	Severe-Drought	0.0070		Yes
Wet Meadow-Montane	A.All	A.All	Summer-Cattle-Grazing-byYr	0.0540	0.9995	No
Wet Meadow-Montane	A.All	A.All	Very-Web-Var	0.0181		1 Yes
Wet Meadow-Montane	A.All	A.All	WeedInventorySpot-Treat	0.0100		No
Wet Meadow-Montane	A.All	A.All	Wild-Horse-Grazing	0.0280	0.9990	No

Wet Meadow-Montane	A.All	U-A Exotic Forbs	Exotic-Invasion	0.0010		No	5
Wet Meadow-Montane	A.All	U-A Hummoked	Early Spring-Cattle-Grazing-byYr	0.0472	0.0005	Yes	20
Wet Meadow-Montane	A.All	U-A Hummoked	Fall-Cattle-Grazing-byYr	0.0540	0.0005	Yes	20
Wet Meadow-Montane	A.All	U-A Hummoked	FeralHorse-Grazing	0.0280	0.0010	Yes	20
Wet Meadow-Montane	A.All	U-A Hummoked	Late-Spring-Cattle-Grazing-byYr	0.0472	0.0010	Yes	20
Wet Meadow-Montane	A.All	U-A Hummoked	Summer-Cattle-Grazing-byYr	0.0540	0.0005	Yes	20
Wet Meadow-Montane	B.Closed	A.All	Wild-Horse-Grazing	0.0280	0.0010	Yes	20
Wet Meadow-Montane	B.Closed	A.All	ReplacementFire	0.0250		Yes	5
Wet Meadow-Montane	B.Closed	A.All	Very-Web-Year	0.0181		Yes	5
Wet Meadow-Montane	B.Closed	B.Closed	Early Spring-Cattle-Grazing-byYr	0.0472	0.9995	No	20
Wet Meadow-Montane	B.Closed	B.Closed	Fall-Cattle-Grazing-byYr	0.0540	0.9995	No	20
Wet Meadow-Montane	B.Closed	B.Closed	Fence&Water-Delivery	0.0100		No	19
Wet Meadow-Montane	B.Closed	B.Closed	Fence-Inspect&Maintain	0.0100		No	4
Wet Meadow-Montane	B.Closed	B.Closed	FeralHorse-Grazing	0.0280	0.9990	2 No	20
Wet Meadow-Montane	B.Closed	B.Closed	Late-Spring-Cattle-Grazing-byYr	0.0472	0.9990	1 No	20
Wet Meadow-Montane	B.Closed	B.Closed	NativeGrazing	0.0200		1 No	20
Wet Meadow-Montane	B.Closed	B.Closed	Severe-Drought	0.0070		1 No	20
Wet Meadow-Montane	B.Closed	B.Closed	Summer-Cattle-Grazing-byYr	0.0540	0.9995	1 No	20
Wet Meadow-Montane	B.Closed	B.Closed	Weed-InventorySpot-Treat	0.0100		No	3
Wet Meadow-Montane	B.Closed	B.Closed	Wild-Year	0.0670		Yes	20
Wet Meadow-Montane	B.Closed	B.Closed	Wild-Horse-Grazing	0.0280	0.9990	2 No	20
Wet Meadow-Montane	B.Closed	C.Open	Alternate-Succession	1.0000		Yes	20
Wet Meadow-Montane	B.Closed	U-A Hummoked	Early Spring-Cattle-Grazing-byYr	0.0472	0.0005	Yes	20
Wet Meadow-Montane	B.Closed	U-A Hummoked	Fall-Cattle-Grazing-byYr	0.0540	0.0005	Yes	20
Wet Meadow-Montane	B.Closed	U-A Hummoked	FeralHorse-Grazing	0.0280	0.0010	Yes	20
Wet Meadow-Montane	B.Closed	U-A Hummoked	Late-Spring-Cattle-Grazing-byYr	0.0472	0.0010	Yes	20
Wet Meadow-Montane	B.Closed	U-A Hummoked	Summer-Cattle-Grazing-byYr	0.0540	0.0005	Yes	20
Wet Meadow-Montane	B.Closed	U-A Hummoked	Wild-Horse-Grazing	0.0280	0.0010	Yes	20
Wet Meadow-Montane	B.Open	U-E Exotic Forbs	Exotic-Invasion	0.0010		No	5
Wet Meadow-Montane	C.Open	A.All	ReplacementFire	0.0250		Yes	5
Wet Meadow-Montane	C.Open	A.All	Very-Web-Year	0.0000		Yes	5
Wet Meadow-Montane	C.Open	A.All	Wild-Year	0.0670		Yes	20
Wet Meadow-Montane	C.Open	C.Open	Early Spring-Cattle-Grazing-byYr	0.0472	0.9995	No	20
Wet Meadow-Montane	C.Open	C.Open	Fall-Cattle-Grazing-byYr	0.0540	0.9995	No	20
Wet Meadow-Montane	C.Open	C.Open	Fence&Water-Delivery	0.0100		No	19
Wet Meadow-Montane	C.Open	C.Open	Fence-Inspect&Maintain	0.0100		No	4
Wet Meadow-Montane	C.Open	C.Open	FeralHorse-Grazing	0.0280	0.9990	2 No	20
Wet Meadow-Montane	C.Open	C.Open	Late-Spring-Cattle-Grazing-byYr	0.0472	0.9990	1 No	20
Wet Meadow-Montane	C.Open	C.Open	NativeGrazing	0.0200		1 No	20
Wet Meadow-Montane	C.Open	C.Open	Severe-Drought	0.0070		1 No	20
Wet Meadow-Montane	C.Open	C.Open	Summer-Cattle-Grazing-byYr	0.0540	0.9995	No	20
Wet Meadow-Montane	C.Open	C.Open	Weed-InventorySpot-Treat	0.0100		No	3
Wet Meadow-Montane	C.Open	C.Open	Wild-Horse-Grazing	0.0280	0.9990	2 No	20
Wet Meadow-Montane	C.Open	U-A Hummoked	Early Spring-Cattle-Grazing-byYr	0.0472	0.0005	No	20
Wet Meadow-Montane	C.Open	U-A Hummoked	Fall-Cattle-Grazing-byYr	0.0540	0.0005	Yes	20
Wet Meadow-Montane	C.Open	U-A Hummoked	FeralHorse-Grazing	0.0280	0.0005	Yes	20
Wet Meadow-Montane	C.Open	U-A Hummoked	Late-Spring-Cattle-Grazing-byYr	0.0472	0.0005	Yes	20
Wet Meadow-Montane	C.Open	U-A Hummoked	Summer-Cattle-Grazing-byYr	0.0540	0.0005	Yes	20
Wet Meadow-Montane	C.Open	U-A Hummoked	Wild-Horse-Grazing	0.0280	0.0005	Yes	20
Wet Meadow-Montane	C.Open	U-C Exotic Forbs	Exotic-Invasion	0.0010		No	5
Wet Meadow-Montane	C.Open	U-C Shrb-Frb Encr	FeralHorse-Grazing	0.0280	0.0005	2 No	20
Wet Meadow-Montane	C.Open	U-C Shrb-Frb Encr	Late-Spring-Cattle-Grazing-byYr	0.0472	0.0005	1 No	20
Wet Meadow-Montane	C.Open	U-C Shrb-Frb Encr	Wild-Horse-Grazing	0.0280	0.0005	2 No	20
Wet Meadow-Montane	U-A Annual Spp	A.All	Floodplain-Restoration	0.0000		Yes	5
Wet Meadow-Montane	U-A Annual Spp	U-A Annual Spp	Early Spring-Cattle-Grazing-byYr	0.0472		Yes	20
Wet Meadow-Montane	U-A Annual Spp	U-A Annual Spp	Fall-Cattle-Grazing-byYr	0.0540		Yes	20
Wet Meadow-Montane	U-A Annual Spp	U-A Annual Spp	Fence&Water-Delivery	0.0100		No	19
Wet Meadow-Montane	U-A Annual Spp	U-A Annual Spp	Fence-Inspect&Maintain	0.0100		No	4
Wet Meadow-Montane	U-A Annual Spp	U-A Annual Spp	FeralHorse-Grazing	0.0280		Yes	20
Wet Meadow-Montane	U-A Annual Spp	U-A Annual Spp	ReplacementFire	0.0250		Yes	5
Wet Meadow-Montane	U-A Annual Spp	U-A Annual Spp	Weed-InventorySpot-Treat	0.0100		No	3
Wet Meadow-Montane	U-A Annual Spp	U-A Annual Spp	Wild-Horse-Grazing	0.0280		Yes	20
Wet Meadow-Montane	U-A Annual Spp	U-A Indused-EFT	Exotic-Invasion	0.0010		No	5
Wet Meadow-Montane	U-A Desertified	A.All	Floodplain-Restoration	0.0000		Yes	5
Wet Meadow-Montane	U-A Desertified	U-A Bare Ground	Early Spring-Cattle-Grazing-byYr	0.0472	0.0005	Yes	20
Wet Meadow-Montane	U-A Desertified	U-A Bare Ground	Fall-Cattle-Grazing-byYr	0.0540	0.0005	Yes	20
Wet Meadow-Montane	U-A Desertified	U-A Bare Ground	FeralHorse-Grazing	0.0280	0.0005	Yes	20
Wet Meadow-Montane	U-A Desertified	U-A Bare Ground	Late-Spring-Cattle-Grazing-byYr	0.0472	0.0005	Yes	20
Wet Meadow-Montane	U-A Desertified	U-A Bare Ground	Summer-Cattle-Grazing-byYr	0.0540	0.0005	Yes	20
Wet Meadow-Montane	U-A Desertified	U-A Bare Ground	Wild-Horse-Grazing	0.0280	0.0005	Yes	20
Wet Meadow-Montane	U-A Desertified	U-A Desertified	Early Spring-Cattle-Grazing-byYr	0.0472	0.9995	No	20
Wet Meadow-Montane	U-A Desertified	U-A Desertified	Fall-Cattle-Grazing-byYr	0.0540	0.9995	No	20
Wet Meadow-Montane	U-A Desertified	U-A Desertified	Fence&Water-Delivery	0.0100		No	19
Wet Meadow-Montane	U-A Desertified	U-A Desertified	Fence-Inspect&Maintain	0.0100		No	4
Wet Meadow-Montane	U-A Desertified	U-A Desertified	FeralHorse-Grazing	0.0280	0.9990	2 No	20
Wet Meadow-Montane	U-A Desertified	U-A Desertified	Late-Spring-Cattle-Grazing-byYr	0.0472	0.9995	1 No	20
Wet Meadow-Montane	U-A Desertified	U-A Desertified	ReplacementFire	0.0250		Yes	5
Wet Meadow-Montane	U-A Desertified	U-A Desertified	Severe-Drought	0.0070		Yes	5
Wet Meadow-Montane	U-A Desertified	U-A Desertified	Summer-Cattle-Grazing-byYr	0.0540	0.9995	No	20
Wet Meadow-Montane	U-A Desertified	U-A Desertified	Weed-InventorySpot-Treat	0.0100		No	3
Wet Meadow-Montane	U-A Desertified	U-A Desertified	Wild-Horse-Grazing	0.0280	0.9990	2 No	20
Wet Meadow-Montane	U-A Desertified	U-A Early Shrub	FeralHorse-Grazing	0.0280	0.0005	Yes	20
Wet Meadow-Montane	U-A Desertified	U-A Early Shrub	Late-Spring-Cattle-Grazing-byYr	0.0472	0.0005	Yes	20
Wet Meadow-Montane	U-A Desertified	U-A Early Shrub	Wild-Horse-Grazing	0.0280	0.0005	Yes	20
Wet Meadow-Montane	U-A Desertified	U-A Indused-EFT	Exotic-Invasion	0.0010		No	5
Wet Meadow-Montane	U-A Desertified	U-A SAP	AS-Invasion	0.0050		No	20
Wet Meadow-Montane	U-A Early Shrub	A.All	Floodplain-Restoration	0.0000		Yes	5
Wet Meadow-Montane	U-A Early Shrub	U-A Early Shrub	Fence&Water-Delivery	0.0100		No	19
Wet Meadow-Montane	U-A Early Shrub	U-A Early Shrub	Fence-Inspect&Maintain	0.0100		No	4
Wet Meadow-Montane	U-A Early Shrub	U-A Early Shrub	ReplacementFire	0.0250		Yes	5
Wet Meadow-Montane	U-A Early Shrub	U-A Early Shrub	Weed-InventorySpot-Treat	0.0100		No	3
Wet Meadow-Montane	U-A Early Shrub	U-A Indused-EFT	Exotic-Invasion	0.0010		No	5
Wet Meadow-Montane	U-A Exotic Forbs	A.All	Exotic-Control	0.0100	0.6000	Yes	20
Wet Meadow-Montane	U-A Exotic Forbs	U-A Exotic Forbs	Early Spring-Cattle-Grazing-byYr	0.0472		No	20
Wet Meadow-Montane	U-A Exotic Forbs	U-A Exotic Forbs	Exotic-Control	0.0100	0.4000	Yes	20
Wet Meadow-Montane	U-A Exotic Forbs	U-A Exotic Forbs	Fall-Cattle-Grazing-byYr	0.0540		No	20
Wet Meadow-Montane	U-A Exotic Forbs	U-A Exotic Forbs	Fence&Water-Delivery	0.0100		No	19
Wet Meadow-Montane	U-A Exotic Forbs	U-A Exotic Forbs	Fence-Inspect&Maintain	0.0100		No	4
Wet Meadow-Montane	U-A Exotic Forbs	U-A Exotic Forbs	FeralHorse-Grazing	0.0280		2 No	20
Wet Meadow-Montane	U-A Exotic Forbs	U-A Exotic Forbs	Late-Spring-Cattle-Grazing-byYr	0.0472		1 No	20
Wet Meadow-Montane	U-A Exotic Forbs	U-A Exotic Forbs	ReplacementFire	0.0250		Yes	5
Wet Meadow-Montane	U-A Exotic Forbs	U-A Exotic Forbs	Severe-Drought	0.0070		Yes	5
Wet Meadow-Montane	U-A Exotic Forbs	U-A Exotic Forbs	Summer-Cattle-Grazing-byYr	0.0540		No	20
Wet Meadow-Montane	U-A Exotic Forbs	U-A Exotic Forbs	Very-Web-Year	0.0181		1 Yes	20
Wet Meadow-Montane	U-A Exotic Forbs	U-A Exotic Forbs	Wild-Horse-Grazing	0.0280		2 No	20
Wet Meadow-Montane	U-A Hummoked	A.All	Natural-Recovery	1.0000		Yes	5
Wet Meadow-Montane	U-A Hummoked	U-A Desertified	Early Spring-Cattle-Grazing-byYr	0.0472	0.0005	Yes	20
Wet Meadow-Montane	U-A Hummoked	U-A Desertified	Fall-Cattle-Grazing-byYr	0.0540	0.0005	Yes	20
Wet Meadow-Montane	U-A Hummoked	U-A Desertified	FeralHorse-Grazing	0.0280	0.0001	Yes	20
Wet Meadow-Montane	U-A Hummoked	U-A Desertified	Late-Spring-Cattle-Grazing-byYr	0.0472	0.0010	Yes	20
Wet Meadow-Montane	U-A Hummoked	U-A Desertified	Summer-Cattle-Grazing-byYr	0.0540	0.0005	Yes	20
Wet Meadow-Montane	U-A Hummoked	U-A Desertified	Wild-Horse-Grazing	0.0280	0.0010	Yes	20
Wet Meadow-Montane	U-A Hummoked	U-A Exotic Forbs	Exotic-Invasion	0.0010		Yes	5
Wet Meadow-Montane	U-A Hummoked	U-A Hummoked	Early Spring-Cattle-Grazing-byYr	0.0472	0.9995	Yes	20
Wet Meadow-Montane	U-A Hummoked	U-A Hummoked	Fall-Cattle-Grazing-byYr	0.0540	0.9995	Yes	20
Wet Meadow-Montane	U-A Hummoked	U-A Hummoked	Fence&Water-Delivery	0.0100		No	19
Wet Meadow-Montane	U-A Hummoked	U-A Hummoked	Fence-Inspect&Maintain	0.0100		No	4
Wet Meadow-Montane	U-A Hummoked	U-A Hummoked	FeralHorse-Grazing	0.0280	0.9990	Yes	20

Wet Meadow-Montane	U-A Hummocked	U-A Hummocked	Late-Spring-Cattle-Grazing-byYr	0.0472	0.9990	Yes	20
Wet Meadow-Montane	U-A Hummocked	U-A Hummocked	Summer-Cattle-Grazing-byYr	0.0540	0.9995	Yes	20
Wet Meadow-Montane	U-A Hummocked	U-A Hummocked	Weed-InventorySpot-Treat	0.0100		No	3
Wet Meadow-Montane	U-A Hummocked	U-A Hummocked	Web-Year	0.0670		3 Yes	20
Wet Meadow-Montane	U-A Hummocked	U-A Hummocked	Wild-Horse-Grazing	0.0280	0.9990	Yes	20
Wet Meadow-Montane	U-A Insect-EFT	A-All	Floodplain-Restoration	0.0000		Yes	20
Wet Meadow-Montane	U-A Insect-EFT	U-A Desertified	Exotic-Invasion	0.0100	0.6000	Yes	20
Wet Meadow-Montane	U-A Insect-EFT	U-A Insect-EFT	Early-Spring-Cattle-Grazing-byYr	0.0472		No	20
Wet Meadow-Montane	U-A Insect-EFT	U-A Insect-EFT	Excotic-Control	0.0100	0.4000	Yes	20
Wet Meadow-Montane	U-A Insect-EFT	U-A Insect-EFT	Fall-Cattle-Grazing-byYr	0.0540		No	20
Wet Meadow-Montane	U-A Insect-EFT	U-A Insect-EFT	Fence&Water-Delivery	0.0100		No	19
Wet Meadow-Montane	U-A Insect-EFT	U-A Insect-EFT	Fence-Inspect&Maintain	0.0100		No	4
Wet Meadow-Montane	U-A Insect-EFT	U-A Insect-EFT	Feral-Horse-Grazing	0.0280		2 No	20
Wet Meadow-Montane	U-A Insect-EFT	U-A Insect-EFT	Late-Spring-Cattle-Grazing-byYr	0.0472		1 No	20
Wet Meadow-Montane	U-A Insect-EFT	U-A Insect-EFT	ReplacemntFire	0.0100		Yes	20
Wet Meadow-Montane	U-A Insect-EFT	U-A Insect-EFT	Summer-Cattle-Grazing-byYr	0.0540		No	20
Wet Meadow-Montane	U-A Insect-EFT	U-A Insect-EFT	Wild-Horse-Grazing	0.0280		2 No	20
Wet Meadow-Montane	U-A SAP	A-All	Floodplain-Restoration	0.0000		Yes	20
Wet Meadow-Montane	U-A SAP	U-A Annual Spp	Early-Spring-Cattle-Grazing-byYr	0.0472	0.0005	Yes	20
Wet Meadow-Montane	U-A SAP	U-A Annual Spp	Fall-Cattle-Grazing-byYr	0.0540	0.0005	Yes	20
Wet Meadow-Montane	U-A SAP	U-A Annual Spp	Feral-Horse-Grazing	0.0280	0.0010	Yes	20
Wet Meadow-Montane	U-A SAP	U-A Annual Spp	Early-Spring-Cattle-Grazing-byYr	0.0472	0.0010	Yes	20
Wet Meadow-Montane	U-A SAP	U-A Annual Spp	ReplacemntFire	0.0250		Yes	20
Wet Meadow-Montane	U-A SAP	U-A Annual Spp	Summer-Cattle-Grazing-byYr	0.0540	0.0005	Yes	20
Wet Meadow-Montane	U-A SAP	U-A Annual Spp	Wild-Horse-Grazing	0.0280	0.0010	Yes	20
Wet Meadow-Montane	U-A SAP	U-A SAP	Early-Spring-Cattle-Grazing-byYr	0.0472	0.9995	No	20
Wet Meadow-Montane	U-A SAP	U-A SAP	Fall-Cattle-Grazing-byYr	0.0540	0.9995	No	20
Wet Meadow-Montane	U-A SAP	U-A SAP	Fence&Water-Delivery	0.0100		No	19
Wet Meadow-Montane	U-A SAP	U-A SAP	Fence-Inspect&Maintain	0.0100		No	4
Wet Meadow-Montane	U-A SAP	U-A SAP	Feral-Horse-Grazing	0.0280	0.9990	2 No	20
Wet Meadow-Montane	U-A SAP	U-A SAP	Late-Spring-Cattle-Grazing-byYr	0.0472	0.9990	1 No	20
Wet Meadow-Montane	U-A SAP	U-A SAP	Severe Drought	0.0070		Yes	20
Wet Meadow-Montane	U-A SAP	U-A SAP	Summer-Cattle-Grazing-byYr	0.0540	0.9995	No	20
Wet Meadow-Montane	U-A SAP	U-A SAP	Weed-InventorySpot-Treat	0.0100		No	3
Wet Meadow-Montane	U-A SAP	U-A SAP	Wild-Horse-Grazing	0.0280	0.9990	2 No	20
Wet Meadow-Montane	U-A SAP	U-B Insect-EFT	Exotic-Invasion	0.0010		No	5
Wet Meadow-Montane	U-A Shrb-Frb Enr	A-All	Herbicide-Shrub&Mow	0.0000	0.8000	2 Yes	10
Wet Meadow-Montane	U-A Shrb-Frb Enr	A-All	NaturalRecovery	1.0000		Yes	10
Wet Meadow-Montane	U-A Shrb-Frb Enr	U-A Desertified	Early-Spring-Cattle-Grazing-byYr	0.0472	0.0005	Yes	20
Wet Meadow-Montane	U-A Shrb-Frb Enr	U-A Desertified	Fall-Cattle-Grazing-byYr	0.0540	0.0005	Yes	20
Wet Meadow-Montane	U-A Shrb-Frb Enr	U-A Desertified	Feral-Horse-Grazing	0.0280	0.0010	Yes	20
Wet Meadow-Montane	U-A Shrb-Frb Enr	U-A Desertified	Early-Spring-Cattle-Grazing-byYr	0.0472	0.0005	Yes	20
Wet Meadow-Montane	U-A Shrb-Frb Enr	U-A Desertified	Summer-Cattle-Grazing-byYr	0.0540	0.0005	Yes	20
Wet Meadow-Montane	U-A Shrb-Frb Enr	U-A Desertified	Wild-Horse-Grazing	0.0280	0.0010	Yes	20
Wet Meadow-Montane	U-A Shrb-Frb Enr	U-A Exotic Forbs	Exotic-Invasion	0.0010		No	5
Wet Meadow-Montane	U-A Shrb-Frb Enr	U-A Shrb-Frb Enr	Early-Spring-Cattle-Grazing-byYr	0.0472		Yes	20
Wet Meadow-Montane	U-A Shrb-Frb Enr	U-A Shrb-Frb Enr	Fall-Cattle-Grazing-byYr	0.0540	0.9995	No	20
Wet Meadow-Montane	U-A Shrb-Frb Enr	U-A Shrb-Frb Enr	Fence&Water-Delivery	0.0100		No	19
Wet Meadow-Montane	U-A Shrb-Frb Enr	U-A Shrb-Frb Enr	Fence-Inspect&Maintain	0.0100		No	4
Wet Meadow-Montane	U-A Shrb-Frb Enr	U-A Shrb-Frb Enr	Feral-Horse-Grazing	0.0280	0.9990	Yes	20
Wet Meadow-Montane	U-A Shrb-Frb Enr	U-A Shrb-Frb Enr	Herbicide-Shrub&Mow	0.0100	0.2000	Yes	20
Wet Meadow-Montane	U-A Shrb-Frb Enr	U-A Shrb-Frb Enr	Late-Spring-Cattle-Grazing-byYr	0.0472	0.9995	1 No	20
Wet Meadow-Montane	U-A Shrb-Frb Enr	U-A Shrb-Frb Enr	ReplacemntFire	0.0250		Yes	5
Wet Meadow-Montane	U-A Shrb-Frb Enr	U-A Shrb-Frb Enr	Summer-Cattle-Grazing-byYr	0.0540	0.9995	Yes	20
Wet Meadow-Montane	U-A Shrb-Frb Enr	U-A Shrb-Frb Enr	Very-Web-Year	0.0181		1 Yes	20
Wet Meadow-Montane	U-A Shrb-Frb Enr	U-A Shrb-Frb Enr	Weed-InventorySpot-Treat	0.0100		No	3
Wet Meadow-Montane	U-A Shrb-Frb Enr	U-A Shrb-Frb Enr	Wild-Horse-Grazing	0.0280	0.9990	2 No	20
Wet Meadow-Montane	U-A SI	A-All	Floodplain-Restoration	0.0000	0.9000	Yes	20
Wet Meadow-Montane	U-A SI	U-A SI	Early-Spring-Cattle-Grazing-byYr	0.0472		No	20
Wet Meadow-Montane	U-A SI	U-A SI	Fall-Cattle-Grazing-byYr	0.0540		No	20
Wet Meadow-Montane	U-A SI	U-A SI	Fence&Water-Delivery	0.0100		No	19
Wet Meadow-Montane	U-A SI	U-A SI	Fence-Inspect&Maintain	0.0100		No	4
Wet Meadow-Montane	U-A SI	U-A SI	Feral-Horse-Grazing	0.0280		2 No	20
Wet Meadow-Montane	U-A SI	U-A SI	Floodplain-Restoration	0.0000	0.1000	Yes	20
Wet Meadow-Montane	U-A SI	U-A SI	Late-Spring-Cattle-Grazing-byYr	0.0472		1 No	20
Wet Meadow-Montane	U-A SI	U-A SI	ReplacemntFire	0.0100		Yes	20
Wet Meadow-Montane	U-A SI	U-A SI	Summer-Cattle-Grazing-byYr	0.0540		No	20
Wet Meadow-Montane	U-A SI	U-A SI	Weed-InventorySpot-Treat	0.0100		No	3
Wet Meadow-Montane	U-A SI	U-A SI	Wild-Horse-Grazing	0.0280		2 No	20
Wet Meadow-Montane	U-A SI	U-A SHAS	AS-Invasion	0.0010		No	20
Wet Meadow-Montane	U-A SI	U-B Insect-EFT	Exotic-Invasion	0.0010		No	5
Wet Meadow-Montane	U-A SHAS	A-All	Floodplain-Restoration	0.0000	0.9000	Yes	20
Wet Meadow-Montane	U-A SHAS	U-A Insect-EFT	Exotic-Invasion	0.0010		No	5
Wet Meadow-Montane	U-A SHAS	U-A SI	Competition	0.2000		Yes	20
Wet Meadow-Montane	U-A SHAS	U-A SHAS	Early-Spring-Cattle-Grazing-byYr	0.0472		No	20
Wet Meadow-Montane	U-A SHAS	U-A SHAS	Fall-Cattle-Grazing-byYr	0.0540		No	20
Wet Meadow-Montane	U-A SHAS	U-A SHAS	Fence&Water-Delivery	0.0100		No	19
Wet Meadow-Montane	U-A SHAS	U-A SHAS	Fence-Inspect&Maintain	0.0100		No	4
Wet Meadow-Montane	U-A SHAS	U-A SHAS	Feral-Horse-Grazing	0.0280		2 No	20
Wet Meadow-Montane	U-A SHAS	U-A SHAS	Floodplain-Restoration	0.0000	0.1000	Yes	20
Wet Meadow-Montane	U-A SHAS	U-A SHAS	Late-Spring-Cattle-Grazing-byYr	0.0472		1 No	20
Wet Meadow-Montane	U-A SHAS	U-A SHAS	ReplacemntFire	0.0250		Yes	20
Wet Meadow-Montane	U-A SHAS	U-A SHAS	Summer-Cattle-Grazing-byYr	0.0540		No	20
Wet Meadow-Montane	U-A SHAS	U-A SHAS	Weed-InventorySpot-Treat	0.0100		No	3
Wet Meadow-Montane	U-A SHAS	U-A SHAS	Web-Year	0.0670		No	20
Wet Meadow-Montane	U-A SHAS	U-A SHAS	Wild-Horse-Grazing	0.0280		2 No	20
Wet Meadow-Montane	U-B Depleted	A-All	Floodplain-Restoration	0.0000		Yes	20
Wet Meadow-Montane	U-B Depleted	U-A Early Shrub	ReplacemntFire	0.0010		Yes	20
Wet Meadow-Montane	U-B Depleted	U-B Depleted	Fence&Water-Delivery	0.0100		No	19
Wet Meadow-Montane	U-B Depleted	U-B Depleted	Fence-Inspect&Maintain	0.0100		No	4
Wet Meadow-Montane	U-B Depleted	U-B Depleted	Severe Drought	0.0070	0.1000	Yes	20
Wet Meadow-Montane	U-B Depleted	U-B Depleted	Weed-InventorySpot-Treat	0.0100		No	3
Wet Meadow-Montane	U-B Depleted	U-B Early Shrub	Severe Drought	0.0070	0.9000	Yes	20
Wet Meadow-Montane	U-B Depleted	U-B Insect-EFT	Exotic-Invasion	0.0010		No	5
Wet Meadow-Montane	U-B Depleted	U-B SAP	AS-Invasion	0.0050		No	20
Wet Meadow-Montane	U-B Desertified	A-All	Floodplain-Restoration	0.0000		Yes	20
Wet Meadow-Montane	U-B Desertified	U-A Bare Ground	Early-Spring-Cattle-Grazing-byYr	0.0472	0.0005	No	20
Wet Meadow-Montane	U-B Desertified	U-A Bare Ground	Fall-Cattle-Grazing-byYr	0.0540	0.0005	No	20
Wet Meadow-Montane	U-B Desertified	U-A Bare Ground	Feral-Horse-Grazing	0.0280	0.0005	2 No	20
Wet Meadow-Montane	U-B Desertified	U-A Bare Ground	Late-Spring-Cattle-Grazing-byYr	0.0472	0.0005	Yes	20
Wet Meadow-Montane	U-B Desertified	U-A Bare Ground	Summer-Cattle-Grazing-byYr	0.0540	0.0005	Yes	20
Wet Meadow-Montane	U-B Desertified	U-A Bare Ground	Wild-Horse-Grazing	0.0280	0.0005	Yes	20
Wet Meadow-Montane	U-B Desertified	U-A Desertified	ReplacemntFire	0.0250		Yes	20
Wet Meadow-Montane	U-B Desertified	U-A Desertified	Severe Drought	0.0070	0.1000	Yes	20
Wet Meadow-Montane	U-B Desertified	U-B Depleted	Feral-Horse-Grazing	0.0280	0.0005	2 No	20
Wet Meadow-Montane	U-B Desertified	U-B Depleted	Late-Spring-Cattle-Grazing-byYr	0.0472	0.0005	1 No	20
Wet Meadow-Montane	U-B Desertified	U-B Depleted	Wild-Horse-Grazing	0.0280	0.0005	2 No	20
Wet Meadow-Montane	U-B Desertified	U-B Desertified	Early-Spring-Cattle-Grazing-byYr	0.0472	0.9995	No	20
Wet Meadow-Montane	U-B Desertified	U-B Desertified	Fall-Cattle-Grazing-byYr	0.0540	0.9995	No	20
Wet Meadow-Montane	U-B Desertified	U-B Desertified	Fence&Water-Delivery	0.0100		No	19
Wet Meadow-Montane	U-B Desertified	U-B Desertified	Fence-Inspect&Maintain	0.0100		No	4
Wet Meadow-Montane	U-B Desertified	U-B Desertified	Feral-Horse-Grazing	0.0280	0.9990	2 No	20
Wet Meadow-Montane	U-B Desertified	U-B Desertified	Late-Spring-Cattle-Grazing-byYr	0.0472	0.9990	1 No	20
Wet Meadow-Montane	U-B Desertified	U-B Desertified	Severe Drought	0.0070	0.9000	Yes	20
Wet Meadow-Montane	U-B Desertified	U-B Desertified	Summer-Cattle-Grazing-byYr	0.0540	0.9995	No	20
Wet Meadow-Montane	U-B Desertified	U-B Desertified	Weed-InventorySpot-Treat	0.0100		No	3
Wet Meadow-Montane	U-B Desertified	U-B Desertified	Wild-Horse-Grazing	0.0280	0.9990	2 No	20
Wet Meadow-Montane	U-B Desertified	U-B Insect-EFT	Exotic-Invasion	0.0010		No	5

Wet Meadow-Montane	U-B Desertified	U-B SAP	AS-Invasion	0.0050	No	
Wet Meadow-Montane	U-B Early Shrub	A All	Floodplain-Restoration	0.0000	Yes	
Wet Meadow-Montane	U-B Early Shrub	U-A Early Shrub	ReplacementFire	0.0250	Yes	
Wet Meadow-Montane	U-B Early Shrub	U-B Early Shrub	Fence&Water-Delivery	0.0100	No	
Wet Meadow-Montane	U-B Early Shrub	U-B Early Shrub	Fence-Inspect&Maintain	0.0100	No	
Wet Meadow-Montane	U-B Early Shrub	U-B Early Shrub	Weed-InventorySpot-Treat	0.0100	No	
Wet Meadow-Montane	U-B Early Shrub	U-B Insect-EFT	Exotic-Invasion	0.0010	No	
Wet Meadow-Montane	U-B Exotic Forbs	B Closed	Exotic-Control	0.0100	0.6000	Yes
Wet Meadow-Montane	U-B Exotic Forbs	U-A Exotic Forbs	Exotic-Control	0.0100	0.4000	Yes
Wet Meadow-Montane	U-B Exotic Forbs	U-A Exotic Forbs	ReplacementFire	0.0250	Yes	
Wet Meadow-Montane	U-B Exotic Forbs	U-A Exotic Forbs	Very-Web-Year	0.0181	1 Yes	
Wet Meadow-Montane	U-B Exotic Forbs	U-B Exotic Forbs	Early-Spring-Cattle-Grazing-byYr	0.0472	No	
Wet Meadow-Montane	U-B Exotic Forbs	U-B Exotic Forbs	Fall-Cattle-Grazing-byYr	0.0540	No	
Wet Meadow-Montane	U-B Exotic Forbs	U-B Exotic Forbs	Fence&Water-Delivery	0.0100	No	
Wet Meadow-Montane	U-B Exotic Forbs	U-B Exotic Forbs	Fence-Inspect&Maintain	0.0100	No	
Wet Meadow-Montane	U-B Exotic Forbs	U-B Exotic Forbs	Feral-Horse-Grazing	0.0280	2 No	
Wet Meadow-Montane	U-B Exotic Forbs	U-B Exotic Forbs	Late-Spring-Cattle-Grazing-byYr	0.0472	1 No	
Wet Meadow-Montane	U-B Exotic Forbs	U-B Exotic Forbs	Severe-Drought	0.0070	Yes	
Wet Meadow-Montane	U-B Exotic Forbs	U-B Exotic Forbs	Summer-Cattle-Grazing-byYr	0.0540	No	
Wet Meadow-Montane	U-B Exotic Forbs	U-B Exotic Forbs	Wild-Horse-Grazing	0.0280	2 No	
Wet Meadow-Montane	U-B Insect-EFT	A All	Floodplain-Restoration	0.0000	Yes	
Wet Meadow-Montane	U-B Insect-EFT	U-B Insect-EFT	Exotic-Control	0.0100	0.4000	Yes
Wet Meadow-Montane	U-B Insect-EFT	U-A Insect-EFT	ReplacementFire	0.0100	Yes	
Wet Meadow-Montane	U-B Insect-EFT	U-B Insect-EFT	Exotic-Control	0.0100	0.6000	Yes
Wet Meadow-Montane	U-B Insect-EFT	U-B Insect-EFT	Early-Spring-Cattle-Grazing-byYr	0.0472	No	
Wet Meadow-Montane	U-B Insect-EFT	U-B Insect-EFT	Fall-Cattle-Grazing-byYr	0.0540	No	
Wet Meadow-Montane	U-B Insect-EFT	U-B Insect-EFT	Fence&Water-Delivery	0.0100	No	
Wet Meadow-Montane	U-B Insect-EFT	U-B Insect-EFT	Fence-Inspect&Maintain	0.0100	No	
Wet Meadow-Montane	U-B Insect-EFT	U-B Insect-EFT	Feral-Horse-Grazing	0.0280	2 No	
Wet Meadow-Montane	U-B Insect-EFT	U-B Insect-EFT	Late-Spring-Cattle-Grazing-byYr	0.0472	1 No	
Wet Meadow-Montane	U-B Insect-EFT	U-B Insect-EFT	Summer-Cattle-Grazing-byYr	0.0540	No	
Wet Meadow-Montane	U-B Insect-EFT	U-B Insect-EFT	Wild-Horse-Grazing	0.0280	2 No	
Wet Meadow-Montane	U-B SAP	A All	Floodplain-Restoration	0.0000	Yes	
Wet Meadow-Montane	U-B SAP	U-A Annual Spp	Early-Spring-Cattle-Grazing-byYr	0.0472	0.0005	Yes
Wet Meadow-Montane	U-B SAP	U-A Annual Spp	Fall-Cattle-Grazing-byYr	0.0540	0.0005	Yes
Wet Meadow-Montane	U-B SAP	U-A Annual Spp	Feral-Horse-Grazing	0.0280	0.0005	Yes
Wet Meadow-Montane	U-B SAP	U-A Annual Spp	Late-Spring-Cattle-Grazing-byYr	0.0472	0.0010	Yes
Wet Meadow-Montane	U-B SAP	U-A Annual Spp	ReplacementFire	0.0250	Yes	
Wet Meadow-Montane	U-B SAP	U-A Annual Spp	Summer-Cattle-Grazing-byYr	0.0472	0.0005	Yes
Wet Meadow-Montane	U-B SAP	U-A Annual Spp	Wild-Horse-Grazing	0.0280	0.0010	Yes
Wet Meadow-Montane	U-B SAP	U-A SAP	Severe-Drought	0.0070	0.1000	Yes
Wet Meadow-Montane	U-B SAP	U-B Insect-EFT	Exotic-Invasion	0.0010	No	
Wet Meadow-Montane	U-B SAP	U-B SAP	Early-Spring-Cattle-Grazing-byYr	0.0472	0.9995	No
Wet Meadow-Montane	U-B SAP	U-B SAP	Fall-Cattle-Grazing-byYr	0.0540	0.9995	No
Wet Meadow-Montane	U-B SAP	U-B SAP	Fence&Water-Delivery	0.0100	No	
Wet Meadow-Montane	U-B SAP	U-B SAP	Fence-Inspect&Maintain	0.0100	No	
Wet Meadow-Montane	U-B SAP	U-B SAP	Feral-Horse-Grazing	0.0280	0.9995	2 No
Wet Meadow-Montane	U-B SAP	U-B SAP	Late-Spring-Cattle-Grazing-byYr	0.0472	0.0005	1 No
Wet Meadow-Montane	U-B SAP	U-B SAP	Severe-Drought	0.0070	0.9000	Yes
Wet Meadow-Montane	U-B SAP	U-B SAP	Summer-Cattle-Grazing-byYr	0.0540	0.9995	Yes
Wet Meadow-Montane	U-B SAP	U-B SAP	Weed-InventorySpot-Treat	0.0100	No	
Wet Meadow-Montane	U-B SAP	U-B SAP	Wild-Horse-Grazing	0.0280	0.9990	2 No
Wet Meadow-Montane	U-B Shrb-Fib Encr	A All	Herbicide-Shrub&Mow	0.0100	0.8000	2 Yes
Wet Meadow-Montane	U-B Shrb-Fib Encr	U-A Shrb-Fib Encr	Herbicide-Shrub&Mow	0.0100	0.1000	2 Yes
Wet Meadow-Montane	U-B Shrb-Fib Encr	U-A Shrb-Fib Encr	ReplacementFire	0.0250	Yes	
Wet Meadow-Montane	U-B Shrb-Fib Encr	U-A Shrb-Fib Encr	Very-Web-Year	0.0181	Yes	
Wet Meadow-Montane	U-B Shrb-Fib Encr	U-B Desertified	Early-Spring-Cattle-Grazing-byYr	0.0472	0.0005	Yes
Wet Meadow-Montane	U-B Shrb-Fib Encr	U-B Desertified	Fall-Cattle-Grazing-byYr	0.0540	0.0005	Yes
Wet Meadow-Montane	U-B Shrb-Fib Encr	U-B Desertified	Feral-Horse-Grazing	0.0280	0.0010	Yes
Wet Meadow-Montane	U-B Shrb-Fib Encr	U-B Desertified	Late-Spring-Cattle-Grazing-byYr	0.0472	0.0010	Yes
Wet Meadow-Montane	U-B Shrb-Fib Encr	U-B Desertified	Summer-Cattle-Grazing-byYr	0.0540	0.0005	Yes
Wet Meadow-Montane	U-B Shrb-Fib Encr	U-B Desertified	Wild-Horse-Grazing	0.0280	0.0010	Yes
Wet Meadow-Montane	U-B Shrb-Fib Encr	U-B Exotic Forbs	Exotic-Invasion	0.0010	No	
Wet Meadow-Montane	U-B Shrb-Fib Encr	U-B Shrb-Fib Encr	Early-Spring-Cattle-Grazing-byYr	0.0472	0.9995	No
Wet Meadow-Montane	U-B Shrb-Fib Encr	U-B Shrb-Fib Encr	Fall-Cattle-Grazing-byYr	0.0540	0.9995	No
Wet Meadow-Montane	U-B Shrb-Fib Encr	U-B Shrb-Fib Encr	Fence&Water-Delivery	0.0100	0.9990	No
Wet Meadow-Montane	U-B Shrb-Fib Encr	U-B Shrb-Fib Encr	Fence-Inspect&Maintain	0.0100	No	
Wet Meadow-Montane	U-B Shrb-Fib Encr	U-B Shrb-Fib Encr	Feral-Horse-Grazing	0.0280	0.9990	2 No
Wet Meadow-Montane	U-B Shrb-Fib Encr	U-B Shrb-Fib Encr	Herbicide-Shrub&Mow	0.0100	0.1000	No
Wet Meadow-Montane	U-B Shrb-Fib Encr	U-B Shrb-Fib Encr	Late-Spring-Cattle-Grazing-byYr	0.0472	0.9990	1 No
Wet Meadow-Montane	U-B Shrb-Fib Encr	U-B Shrb-Fib Encr	Summer-Cattle-Grazing-byYr	0.0540	0.9995	No
Wet Meadow-Montane	U-B Shrb-Fib Encr	U-B Shrb-Fib Encr	Weed-InventorySpot-Treat	0.0100	No	
Wet Meadow-Montane	U-B Shrb-Fib Encr	U-B Shrb-Fib Encr	Web-Year	0.0670	Yes	
Wet Meadow-Montane	U-B Shrb-Fib Encr	U-B Shrb-Fib Encr	Wild-Horse-Grazing	0.0280	0.9990	2 No
Wet Meadow-Montane	U-B SI	A All	Floodplain-Restoration	0.0000	0.9000	Yes
Wet Meadow-Montane	U-B SI	U-A SI	ReplacementFire	0.0010	Yes	
Wet Meadow-Montane	U-B SI	U-B Desertified	NaturalRecovery	0.0010	No	
Wet Meadow-Montane	U-B SI	U-B Insect-EFT	Exotic-Invasion	0.0010	No	
Wet Meadow-Montane	U-B SI	U-B SI	Early-Spring-Cattle-Grazing-byYr	0.0472	No	
Wet Meadow-Montane	U-B SI	U-B SI	Fall-Cattle-Grazing-byYr	0.0540	No	
Wet Meadow-Montane	U-B SI	U-B SI	Fence&Water-Delivery	0.0100	No	
Wet Meadow-Montane	U-B SI	U-B SI	Fence-Inspect&Maintain	0.0100	No	
Wet Meadow-Montane	U-B SI	U-B SI	Fence-Inspect&Maintain	0.0100	No	
Wet Meadow-Montane	U-B SI	U-B SI	Feral-Horse-Grazing	0.0280	2 No	
Wet Meadow-Montane	U-B SI	U-B SI	Floodplain-Restoration	0.0000	0.1000	Yes
Wet Meadow-Montane	U-B SI	U-B SI	Late-Spring-Cattle-Grazing-byYr	0.0472	No	
Wet Meadow-Montane	U-B SI	U-B SI	Summer-Cattle-Grazing-byYr	0.0540	No	
Wet Meadow-Montane	U-B SI	U-B SI	Weed-InventorySpot-Treat	0.0100	No	
Wet Meadow-Montane	U-B SI	U-B SI	Wild-Horse-Grazing	0.0280	2 No	
Wet Meadow-Montane	U-B SHAS	U-B SHAS	AS-Invasion	0.0010	No	
Wet Meadow-Montane	U-B SHAS	A All	Floodplain-Restoration	0.0000	0.9000	Yes
Wet Meadow-Montane	U-B SHAS	U-A SHAS	ReplacementFire	0.0020	Yes	
Wet Meadow-Montane	U-B SHAS	U-B Insect-EFT	Exotic-Invasion	0.0010	No	
Wet Meadow-Montane	U-B SHAS	U-B SI	Competition	0.3800	No	
Wet Meadow-Montane	U-B SHAS	U-B SHAS	Early-Spring-Cattle-Grazing-byYr	0.0472	No	
Wet Meadow-Montane	U-B SHAS	U-B SHAS	Fall-Cattle-Grazing-byYr	0.0540	No	
Wet Meadow-Montane	U-B SHAS	U-B SHAS	Fence&Water-Delivery	0.0100	No	
Wet Meadow-Montane	U-B SHAS	U-B SHAS	Fence-Inspect&Maintain	0.0100	No	
Wet Meadow-Montane	U-B SHAS	U-B SHAS	Feral-Horse-Grazing	0.0280	2 No	
Wet Meadow-Montane	U-B SHAS	U-B SHAS	Floodplain-Restoration	0.0000	0.1000	Yes
Wet Meadow-Montane	U-B SHAS	U-B SHAS	Late-Spring-Cattle-Grazing-byYr	0.0472	1 No	
Wet Meadow-Montane	U-B SHAS	U-B SHAS	Summer-Cattle-Grazing-byYr	0.0540	No	
Wet Meadow-Montane	U-B SHAS	U-B SHAS	Weed-InventorySpot-Treat	0.0100	No	
Wet Meadow-Montane	U-B SHAS	U-B SHAS	Web-Year	0.0670	No	
Wet Meadow-Montane	U-B SHAS	U-B SHAS	Wild-Horse-Grazing	0.0280	2 No	
Wet Meadow-Montane	U-C Depleted	A All	Floodplain-Restoration	0.0000	Yes	
Wet Meadow-Montane	U-C Depleted	U-A Early Shrub	ReplacementFire	0.0010	Yes	
Wet Meadow-Montane	U-C Depleted	U-C Depleted	Severe-Drought	0.0070	0.1000	Yes
Wet Meadow-Montane	U-C Depleted	U-C Depleted	Fence&Water-Delivery	0.0100	No	
Wet Meadow-Montane	U-C Depleted	U-C Depleted	Fence-Inspect&Maintain	0.0100	No	
Wet Meadow-Montane	U-C Depleted	U-C Depleted	Severe-Drought	0.0070	0.9000	Yes
Wet Meadow-Montane	U-C Depleted	U-C Depleted	Weed-InventorySpot-Treat	0.0100	No	
Wet Meadow-Montane	U-C Depleted	U-C Insect-EFT	Exotic-Invasion	0.0010	No	
Wet Meadow-Montane	U-C Depleted	U-C SAP	AS-Invasion	0.0050	No	
Wet Meadow-Montane	U-C Desertified	A All	Floodplain-Restoration	0.0000	Yes	
Wet Meadow-Montane	U-C Desertified	U-A Bare Ground	Early-Spring-Cattle-Grazing-byYr	0.0472	0.0005	No
Wet Meadow-Montane	U-C Desertified	U-A Bare Ground	Fall-Cattle-Grazing-byYr	0.0540	0.0005	No

Wet Meadow-Montane	U-CSHAS	U-CSHAS	Floodplain-Restoration	0.0000	0.1000		Yes	
Wet Meadow-Montane	U-CSHAS	U-CSHAS	Late-Spring-Cattle-Grazing-byYr	0.0472		1	No	20
Wet Meadow-Montane	U-CSHAS	U-CSHAS	Summer-Cattle-Grazing-byYr	0.0540			No	20
Wet Meadow-Montane	U-CSHAS	U-CSHAS	Weed-Inventories/Spot-Treat	0.0100			No	3
Wet Meadow-Montane	U-CSHAS	U-CSHAS	Wild-Horse-Grazing	0.0675			No	20
Wet Meadow-Montane	U-CSHAS	U-CSHAS	Wild-Horse-Grazing	0.0280		2	No	20
Wetland	A.All	A.All	Early-Spring-Cattle-Grazing-byYr	0.0590	0.9995		No	
Wetland	A.All	A.All	Fall-Cattle-Grazing-byYr	0.0675	0.9995		No	
Wetland	A.All	A.All	FeralHorse-Grazing	0.0420	0.9990		-1	No
Wetland	A.All	A.All	Flooding-100Yr	0.0100			Yes	
Wetland	A.All	A.All	Flooding-20Yr	0.0500			5	No
Wetland	A.All	A.All	Late-Spring-Cattle-Grazing-byYr	0.0590	0.9990		-1	No
Wetland	A.All	A.All	Summer-Cattle-Grazing-byYr	0.0675	0.9995		Yes	
Wetland	A.All	A.All	Weed-Inventories/Spot-Treat	0.0100			No	3
Wetland	A.All	A.All	Wild-Horse-Grazing	0.0420	0.9990		-1	No
Wetland	A.All	U-A Exotic Forb&Tree	Exotic-Invasion	0.0010			No	5
Wetland	A.All	U-A Hummocked	Early-Spring-Cattle-Grazing-byYr	0.0590	0.0005		Yes	
Wetland	A.All	U-A Hummocked	Fall-Cattle-Grazing-byYr	0.0675	0.0005		Yes	
Wetland	A.All	U-A Hummocked	FeralHorse-Grazing	0.0420	0.0005		Yes	
Wetland	A.All	U-A Hummocked	Late-Spring-Cattle-Grazing-byYr	0.0590	0.0010		Yes	
Wetland	A.All	U-A Hummocked	Summer-Cattle-Grazing-byYr	0.0675	0.0005		Yes	
Wetland	A.All	U-A Hummocked	Wild-Horse-Grazing	0.0420	0.9990		Yes	
Wetland	A.Water	A.Water	Early-Spring-Cattle-Grazing-byYr	0.0590			Yes	
Wetland	A.Water	A.Water	Fall-Cattle-Grazing-byYr	0.0675			Yes	
Wetland	A.Water	A.Water	FeralHorse-Grazing	0.0420			Yes	
Wetland	A.Water	A.Water	Flooding-100Yr	0.0100			Yes	
Wetland	A.Water	A.Water	Flooding-20Yr	0.0500			5	No
Wetland	A.Water	A.Water	Late-Spring-Cattle-Grazing-byYr	0.0590			Yes	
Wetland	A.Water	A.Water	Summer-Cattle-Grazing-byYr	0.0675			Yes	
Wetland	A.Water	A.Water	Wild-Horse-Grazing	0.0420			Yes	
Wetland	B.All	B.All	Early-Spring-Cattle-Grazing-byYr	0.0590	0.9995		No	
Wetland	B.All	B.All	Fall-Cattle-Grazing-byYr	0.0675	0.9995		No	
Wetland	B.All	B.All	FeralHorse-Grazing	0.0420	0.9990		No	
Wetland	B.All	B.All	Flooding-100Yr	0.0100			Yes	
Wetland	B.All	B.All	Flooding-20Yr	0.0500			5	No
Wetland	B.All	B.All	Late-Spring-Cattle-Grazing-byYr	0.0590	0.9990		-1	No
Wetland	B.All	B.All	Summer-Cattle-Grazing-byYr	0.0675	0.9995		No	
Wetland	B.All	B.All	Weed-Inventories/Spot-Treat	0.0100			No	3
Wetland	B.All	B.All	Wild-Horse-Grazing	0.0420	0.9990		No	
Wetland	B.All	U-A Hummocked	Early-Spring-Cattle-Grazing-byYr	0.0590	0.0005		Yes	
Wetland	B.All	U-A Hummocked	Fall-Cattle-Grazing-byYr	0.0675	0.0005		Yes	
Wetland	B.All	U-A Hummocked	FeralHorse-Grazing	0.0420	0.0010		Yes	
Wetland	B.All	U-A Hummocked	Late-Spring-Cattle-Grazing-byYr	0.0590	0.0010		Yes	
Wetland	B.All	U-A Hummocked	Summer-Cattle-Grazing-byYr	0.0675	0.0005		Yes	
Wetland	B.All	U-A Hummocked	Wild-Horse-Grazing	0.0420	0.0010		Yes	
Wetland	B.All	U-B Exotic Forb&Tree	Exotic-Invasion	0.0010			No	5
Wetland	B.All	Moist Floodplain	Alternate-Succession	0.0001		150	Yes	
Wetland	U-A Exotic Forb&Tree	A.All	Exotic-Control	0.0100	0.6000		Yes	20
Wetland	U-A Exotic Forb&Tree	U-A Exotic Forb&Tree	Early-Spring-Cattle-Grazing-byYr	0.0590			Yes	
Wetland	U-A Exotic Forb&Tree	U-A Exotic Forb&Tree	Exotic-Control	0.0100	0.4000		Yes	20
Wetland	U-A Exotic Forb&Tree	U-A Exotic Forb&Tree	Fall-Cattle-Grazing-byYr	0.0675			Yes	
Wetland	U-A Exotic Forb&Tree	U-A Exotic Forb&Tree	FeralHorse-Grazing	0.0420			Yes	
Wetland	U-A Exotic Forb&Tree	U-A Exotic Forb&Tree	Flooding-100Yr	0.0100			Yes	
Wetland	U-A Exotic Forb&Tree	U-A Exotic Forb&Tree	Flooding-20Yr	0.0500			5	No
Wetland	U-A Exotic Forb&Tree	U-A Exotic Forb&Tree	Late-Spring-Cattle-Grazing-byYr	0.0590			Yes	
Wetland	U-A Exotic Forb&Tree	U-A Exotic Forb&Tree	Summer-Cattle-Grazing-byYr	0.0675			Yes	
Wetland	U-A Exotic Forb&Tree	U-A Exotic Forb&Tree	Wild-Horse-Grazing	0.0420			Yes	
Wetland	U-A Hummocked	U-A Exotic Forb&Tree	Exotic-Invasion	0.0010			Yes	5
Wetland	U-A Hummocked	U-A Hummocked	Early-Spring-Cattle-Grazing-byYr	0.0590			Yes	
Wetland	U-A Hummocked	U-A Hummocked	Fall-Cattle-Grazing-byYr	0.0675			Yes	
Wetland	U-A Hummocked	U-A Hummocked	FeralHorse-Grazing	0.0420			Yes	
Wetland	U-A Hummocked	U-A Hummocked	Flooding-100Yr	0.0100			Yes	
Wetland	U-A Hummocked	U-A Hummocked	Flooding-20Yr	0.0500			5	No
Wetland	U-A Hummocked	U-A Hummocked	Late-Spring-Cattle-Grazing-byYr	0.0590			Yes	
Wetland	U-A Hummocked	U-A Hummocked	Summer-Cattle-Grazing-byYr	0.0675			Yes	
Wetland	U-A Hummocked	U-A Hummocked	Weed-Inventories/Spot-Treat	0.0100			Yes	3
Wetland	U-A Hummocked	U-A Hummocked	Wild-Horse-Grazing	0.0420			Yes	
Wetland	U-B Exotic Forb&Tree	A.All	Exotic-Control	0.0100	0.6000		Yes	20
Wetland	U-B Exotic Forb&Tree	U-A Exotic Forb&Tree	Exotic-Control	0.0100	0.4000		Yes	20
Wetland	U-B Exotic Forb&Tree	U-A Exotic Forb&Tree	Flooding-20Yr	0.0500			5	No
Wetland	U-B Exotic Forb&Tree	U-B Exotic Forb&Tree	Early-Spring-Cattle-Grazing-byYr	0.0590			Yes	
Wetland	U-B Exotic Forb&Tree	U-B Exotic Forb&Tree	Fall-Cattle-Grazing-byYr	0.0675			Yes	
Wetland	U-B Exotic Forb&Tree	U-B Exotic Forb&Tree	FeralHorse-Grazing	0.0420			Yes	
Wetland	U-B Exotic Forb&Tree	U-B Exotic Forb&Tree	Flooding-100Yr	0.0100			Yes	
Wetland	U-B Exotic Forb&Tree	U-B Exotic Forb&Tree	Late-Spring-Cattle-Grazing-byYr	0.0590			Yes	
Wetland	U-B Exotic Forb&Tree	U-B Exotic Forb&Tree	Summer-Cattle-Grazing-byYr	0.0675			Yes	
Wetland	U-B Exotic Forb&Tree	U-B Exotic Forb&Tree	Wild-Horse-Grazing	0.0420			Yes	
Wetland	U-B Exotic Forb&Tree	Moist Floodplain	Alternate-Succession	0.0001		150	Yes	
Winterfat	A.All	A.All	Early-Spring-Cattle-Grazing-byYr	0.0277	0.0005		No	
Winterfat	A.All	A.All	Fall-Cattle-Grazing-byYr	0.0035	0.9990		No	
Winterfat	A.All	A.All	FeralHorse-Grazing	0.0060	0.9990		2	No
Winterfat	A.All	A.All	Late-Spring-Cattle-Grazing-byYr	0.0277	0.0005		1	No
Winterfat	A.All	A.All	Summer-Cattle-Grazing-byYr	0.0035	0.9990		No	
Winterfat	A.All	A.All	Wild-Horse-Grazing	0.0060	0.0005		2	No
Winterfat	A.All	U-A Bare Ground	Early-Spring-Cattle-Grazing-byYr	0.0277	0.9990		Yes	
Winterfat	A.All	U-A Bare Ground	Fall-Cattle-Grazing-byYr	0.0035	0.0005		Yes	
Winterfat	A.All	U-A Bare Ground	FeralHorse-Grazing	0.0060	0.9990		Yes	
Winterfat	A.All	U-A Bare Ground	Late-Spring-Cattle-Grazing-byYr	0.0277	0.0005		Yes	
Winterfat	A.All	U-A Bare Ground	Summer-Cattle-Grazing-byYr	0.0035	0.9990		Yes	
Winterfat	A.All	U-A Bare Ground	Wild-Horse-Grazing	0.0060	0.0005		Yes	
Winterfat	A.All	U-A SAR	AB-Invasion	0.0025			No	
Winterfat	B.Open	A.All	ReplacementFire	0.0010			Yes	
Winterfat	B.Open	A.All	Very-Web-Year	0.0181	0.2000		Yes	
Winterfat	B.Open	B.Open	Early-Spring-Cattle-Grazing-byYr	0.0277	0.0005		No	
Winterfat	B.Open	B.Open	Fall-Cattle-Grazing-byYr	0.0035	0.9990		No	
Winterfat	B.Open	B.Open	FeralHorse-Grazing	0.0060	0.0005		-2	No
Winterfat	B.Open	B.Open	Late-Spring-Cattle-Grazing-byYr	0.0277	0.9990		-1	No
Winterfat	B.Open	B.Open	Summer-Cattle-Grazing-byYr	0.0035	0.0005		No	
Winterfat	B.Open	B.Open	Very-Web-Year	0.0181	0.8000		Yes	
Winterfat	B.Open	B.Open	Wild-Horse-Grazing	0.0060	0.0005		-2	No
Winterfat	B.Open	U-A Bare Ground	Early-Spring-Cattle-Grazing-byYr	0.0277	0.9990		Yes	
Winterfat	B.Open	U-A Bare Ground	Fall-Cattle-Grazing-byYr	0.0035	0.0005		Yes	
Winterfat	B.Open	U-A Bare Ground	FeralHorse-Grazing	0.0060	0.9990		Yes	
Winterfat	B.Open	U-A Bare Ground	Late-Spring-Cattle-Grazing-byYr	0.0277	0.0005		Yes	
Winterfat	B.Open	U-A Bare Ground	Summer-Cattle-Grazing-byYr	0.0035	0.9990		Yes	
Winterfat	B.Open	U-A Bare Ground	Wild-Horse-Grazing	0.0060	0.0005		Yes	
Winterfat	B.Open	U-B SAR	AB-Invasion	0.0025			Yes	
Winterfat	C.Closed	A.All	ReplacementFire	0.0010			Yes	
Winterfat	C.Closed	A.All	Very-Web-Year	0.0181	0.0500		Yes	
Winterfat	C.Closed	B.Open	Very-Web-Year	0.0181	0.1500		Yes	
Winterfat	C.Closed	C.Closed	Early-Spring-Cattle-Grazing-byYr	0.0277	0.9990		No	
Winterfat	C.Closed	C.Closed	Fall-Cattle-Grazing-byYr	0.0035	0.0005		No	
Winterfat	C.Closed	C.Closed	FeralHorse-Grazing	0.0060	0.9990		2	No
Winterfat	C.Closed	C.Closed	Late-Spring-Cattle-Grazing-byYr	0.0277	0.0005		-1	No
Winterfat	C.Closed	C.Closed	Summer-Cattle-Grazing-byYr	0.0035	0.9990		No	
Winterfat	C.Closed	C.Closed	Very-Web-Year	0.0181	0.8000		Yes	
Winterfat	C.Closed	C.Closed	Wild-Horse-Grazing	0.0060	0.9990		2	No
Winterfat	C.Closed	U-A Bare Ground	Early-Spring-Cattle-Grazing-byYr	0.0277	0.0005		Yes	

Winterfat	C:Closed	U-A: Bare Ground	Fall-Cattle-Grazing-byYr	0.0035	0.9990				Yes	
Winterfat	C:Closed	U-A: Bare Ground	FeralHorse-Grazing	0.0060	0.0005				Yes	
Winterfat	C:Closed	U-A: Bare Ground	Late-Spring-Cattle-Grazing-byYr	0.0277	0.9990				Yes	
Winterfat	C:Closed	U-A: Bare Ground	Summer-Cattle-Grazing-byYr	0.0035	0.0005				Yes	
Winterfat	C:Closed	U-A: Bare Ground	Wild-Horse-Grazing	0.0060	0.9990				Yes	
Winterfat	C:Closed	U-B: Depleted	FeralHorse-Grazing	0.0060	0.0005				Yes	
Winterfat	C:Closed	U-B: Depleted	Late-Spring-Cattle-Grazing-byYr	0.0277	0.9990				Yes	
Winterfat	C:Closed	U-B: Depleted	Wild-Horse-Grazing	0.0060	0.0005				Yes	
Winterfat	C:Closed	U-C: SAP	AS-Invasion	0.0025	0.0000				No	
Winterfat	U-A: Annual Spp	U-A: Annual Spp	Early-Spring-Cattle-Grazing-byYr	0.0277	0.0005	3			Yes	
Winterfat	U-A: Annual Spp	U-A: Annual Spp	Fall-Cattle-Grazing-byYr	0.0035	0.9990	3			Yes	
Winterfat	U-A: Annual Spp	U-A: Annual Spp	FeralHorse-Grazing	0.0060	0.0005			2	No	
Winterfat	U-A: Annual Spp	U-A: Annual Spp	Herbicide-PlateauSeed	0.0000	0.5000				Yes	
Winterfat	U-A: Annual Spp	U-A: Annual Spp	ReplacementFire	0.1000	0.0000				Yes	
Winterfat	U-A: Annual Spp	U-A: Annual Spp	Wild-Horse-Grazing	0.0060	0.0005			2	No	
Winterfat	U-A: Annual Spp	U-A: Seeded Native	Herbicide-PlateauSeed	0.0000	0.5000				Yes	
Winterfat	U-A: Bare Ground	U-A: Annual Spp	AS-Invasion	0.0050	0.0000				Yes	
Winterfat	U-A: Bare Ground	U-A: Exotic Forbs	Exotic-Invasion	0.0005	0.0000				No	
Winterfat	U-A: Exotic Forbs	U-A: Exotic Forbs	Seed	0.0000	0.5000			20	Yes	
Winterfat	U-A: Exotic Forbs	U-A: SI	Seed	0.0000	0.5000			20	Yes	
Winterfat	U-A: SAP	U-A: Annual Spp	Early-Spring-Cattle-Grazing-byYr	0.0277	0.5000	3			Yes	
Winterfat	U-A: SAP	U-A: Annual Spp	Fall-Cattle-Grazing-byYr	0.0035	0.5000	3			Yes	
Winterfat	U-A: SAP	U-A: Annual Spp	FeralHorse-Grazing	0.0060	0.5000				Yes	
Winterfat	U-A: SAP	U-A: Annual Spp	Late-Spring-Cattle-Grazing-byYr	0.0277	0.5000	3			Yes	
Winterfat	U-A: SAP	U-A: Annual Spp	ReplacementFire	0.1000	0.5000				Yes	
Winterfat	U-A: SAP	U-A: Annual Spp	Summer-Cattle-Grazing-byYr	0.0277	0.5000	3			Yes	
Winterfat	U-A: SAP	U-A: Annual Spp	Wild-Horse-Grazing	0.0060	0.5000				Yes	
Winterfat	U-A: SAP	U-A: Exotic Forbs	Exotic-Invasion	0.0005	0.5000				No	
Winterfat	U-A: SAP	U-A: SAP	Early-Spring-Cattle-Grazing-byYr	0.0277	0.5000	3			No	
Winterfat	U-A: SAP	U-A: SAP	Fall-Cattle-Grazing-byYr	0.0035	0.5000	3			No	
Winterfat	U-A: SAP	U-A: SAP	FeralHorse-Grazing	0.0060	0.5000				2	No
Winterfat	U-A: SAP	U-A: SAP	Late-Spring-Cattle-Grazing-byYr	0.0277	0.5000	3			-1	No
Winterfat	U-A: SAP	U-A: SAP	ReplacementFire	0.1000	0.5000				No	
Winterfat	U-A: SAP	U-A: SAP	Summer-Cattle-Grazing-byYr	0.0035	0.5000	3			No	
Winterfat	U-A: SAP	U-A: SAP	Wild-Horse-Grazing	0.0060	0.5000				2	No
Winterfat	U-A: Seeded Native	A: All	Natural-Recovery	0.3300	0.5000			49	No	
Winterfat	U-A: Seeded Native	U-A: Bare Ground	Early-Spring-Cattle-Grazing-byYr	0.0277	0.5000	3		5	Yes	
Winterfat	U-A: Seeded Native	U-A: Bare Ground	Fall-Cattle-Grazing-byYr	0.0035	0.5000	3			Yes	
Winterfat	U-A: Seeded Native	U-A: Bare Ground	Fall-Cattle-Grazing-byYr	0.0035	0.5000	3		5	Yes	
Winterfat	U-A: Seeded Native	U-A: Bare Ground	Fall-Cattle-Grazing-byYr	0.0035	0.5000	6			Yes	
Winterfat	U-A: Seeded Native	U-A: Bare Ground	FeralHorse-Grazing	0.0060	0.5000			5	Yes	
Winterfat	U-A: Seeded Native	U-A: Bare Ground	FeralHorse-Grazing	0.0060	0.5000	6			Yes	
Winterfat	U-A: Seeded Native	U-A: Bare Ground	Late-Spring-Cattle-Grazing-byYr	0.0277	0.5000	3		5	Yes	
Winterfat	U-A: Seeded Native	U-A: Bare Ground	Late-Spring-Cattle-Grazing-byYr	0.0277	0.5000	6			Yes	
Winterfat	U-A: Seeded Native	U-A: Bare Ground	Severe-Drought	0.0070	0.5000			2	Yes	
Winterfat	U-A: Seeded Native	U-A: Bare Ground	Summer-Cattle-Grazing-byYr	0.0035	0.5000	3			Yes	
Winterfat	U-A: Seeded Native	U-A: Bare Ground	Wild-Horse-Grazing	0.0060	0.5000	3		5	Yes	
Winterfat	U-A: Seeded Native	U-A: Bare Ground	Wild-Horse-Grazing	0.0060	0.5000				Yes	
Winterfat	U-A: Seeded Native	U-A: Exotic Forbs	Exotic-Invasion	0.0005	0.5000				Yes	
Winterfat	U-A: Seeded Native	U-A: SAP	AS-Invasion	0.0050	0.5000				No	
Winterfat	U-A: Seeded Native	U-A: Seeded Native	Early-Spring-Cattle-Grazing-byYr	0.0277	0.5000	6			No	
Winterfat	U-A: Seeded Native	U-A: Seeded Native	Fall-Cattle-Grazing-byYr	0.0035	0.5000	6			No	
Winterfat	U-A: Seeded Native	U-A: Seeded Native	FeralHorse-Grazing	0.0060	0.5000	6			No	
Winterfat	U-A: Seeded Native	U-A: Seeded Native	Early-Spring-Cattle-Grazing-byYr	0.0277	0.5000	6			No	
Winterfat	U-A: Seeded Native	U-A: Seeded Native	Summer-Cattle-Grazing-byYr	0.0035	0.5000	6			No	
Winterfat	U-A: Seeded Native	U-A: Seeded Native	Summer-Cattle-Grazing-byYr	0.0035	0.5000	6			Yes	
Winterfat	U-A: Seeded Native	U-A: Seeded Native	Very-Web-Year	0.0181	0.5000				Yes	
Winterfat	U-A: Seeded Native	U-A: Seeded Native	Wild-Horse-Grazing	0.0060	0.5000	6			No	
Winterfat	U-A: SI	U-A: Bare Ground	Severe-Drought	0.0070	0.5000			2	Yes	
Winterfat	U-A: SI	U-A: SI	Early-Spring-Cattle-Grazing-byYr	0.0277	0.5000	3			No	
Winterfat	U-A: SI	U-A: SI	Fall-Cattle-Grazing-byYr	0.0035	0.5000	3			No	
Winterfat	U-A: SI	U-A: SI	FeralHorse-Grazing	0.0060	0.5000				2	No
Winterfat	U-A: SI	U-A: SI	Late-Spring-Cattle-Grazing-byYr	0.0277	0.5000	3			1	No
Winterfat	U-A: SI	U-A: SI	Summer-Cattle-Grazing-byYr	0.0035	0.5000	3			No	
Winterfat	U-A: SI	U-A: SI	Wild-Horse-Grazing	0.0060	0.5000				2	No
Winterfat	U-A: SI	U-A: SHAS	AS-Invasion	0.0010	0.5000				No	
Winterfat	U-A: SHAS	U-A: Annual Spp	Severe-Drought	0.0070	0.5000			2	Yes	
Winterfat	U-A: SHAS	U-A: SI	Competition	0.3300	0.5000				3	No
Winterfat	U-A: SHAS	U-A: SHAS	Early-Spring-Cattle-Grazing-byYr	0.0277	0.5000	3			No	
Winterfat	U-A: SHAS	U-A: SHAS	Fall-Cattle-Grazing-byYr	0.0035	0.5000	3			No	
Winterfat	U-A: SHAS	U-A: SHAS	FeralHorse-Grazing	0.0060	0.5000				2	No
Winterfat	U-A: SHAS	U-A: SHAS	Late-Spring-Cattle-Grazing-byYr	0.0277	0.5000	3			1	No
Winterfat	U-A: SHAS	U-A: SHAS	ReplacementFire	0.1000	0.5000				Yes	
Winterfat	U-A: SHAS	U-A: SHAS	Summer-Cattle-Grazing-byYr	0.0035	0.5000	3			No	
Winterfat	U-A: SHAS	U-A: SHAS	Web-Year	0.0670	0.5000				No	
Winterfat	U-A: SHAS	U-A: SHAS	Wild-Horse-Grazing	0.0060	0.5000				2	No
Winterfat	U-B: Depleted	U-A: Bare Ground	Early-Spring-Cattle-Grazing-byYr	0.0277	0.5000				Yes	
Winterfat	U-B: Depleted	U-A: Bare Ground	Fall-Cattle-Grazing-byYr	0.0035	0.5000				Yes	
Winterfat	U-B: Depleted	U-A: Bare Ground	FeralHorse-Grazing	0.0060	0.5000				Yes	
Winterfat	U-B: Depleted	U-A: Bare Ground	FeralHorse-Grazing	0.0060	0.5000				-2	No
Winterfat	U-B: Depleted	U-A: Bare Ground	Late-Spring-Cattle-Grazing-byYr	0.0277	0.5000				Yes	
Winterfat	U-B: Depleted	U-A: Bare Ground	Summer-Cattle-Grazing-byYr	0.0035	0.5000				Yes	
Winterfat	U-B: Depleted	U-A: Bare Ground	Very-Web-Year	0.0181	0.5000				Yes	
Winterfat	U-B: Depleted	U-A: Bare Ground	Wild-Horse-Grazing	0.0060	0.5000				Yes	
Winterfat	U-B: Depleted	U-B: Depleted	Early-Spring-Cattle-Grazing-byYr	0.0277	0.5000				No	
Winterfat	U-B: Depleted	U-B: Depleted	Fall-Cattle-Grazing-byYr	0.0035	0.5000				No	
Winterfat	U-B: Depleted	U-B: Depleted	Late-Spring-Cattle-Grazing-byYr	0.0277	0.5000				-1	No
Winterfat	U-B: Depleted	U-B: Depleted	Summer-Cattle-Grazing-byYr	0.0035	0.5000				No	
Winterfat	U-B: Depleted	U-B: Depleted	Very-Web-Year	0.0181	0.5000				Yes	
Winterfat	U-B: Depleted	U-B: Depleted	Wild-Horse-Grazing	0.0060	0.5000				-2	No
Winterfat	U-B: Depleted	U-B: Exotic Forbs	Exotic-Invasion	0.0005	0.5000				No	
Winterfat	U-B: Depleted	U-B: SA	AS-Invasion	0.0050	0.5000				Yes	
Winterfat	U-B: Exotic Forbs	U-A: Exotic Forbs	Seed	0.0000	0.5000			20	Yes	
Winterfat	U-B: Exotic Forbs	U-A: SI	Seed	0.0000	0.5000			20	Yes	
Winterfat	U-B: SA	B: Open	Herbicide-PlateauSeed	0.0000	0.5000				No	
Winterfat	U-B: SA	U-A: Annual Spp	Early-Spring-Cattle-Grazing-byYr	0.0277	0.0005				Yes	
Winterfat	U-B: SA	U-A: Annual Spp	Fall-Cattle-Grazing-byYr	0.0035	0.9990				Yes	
Winterfat	U-B: SA	U-A: Annual Spp	FeralHorse-Grazing	0.0060	0.0005				Yes	
Winterfat	U-B: SA	U-A: Annual Spp	Late-Spring-Cattle-Grazing-byYr	0.0277	0.9990				Yes	
Winterfat	U-B: SA	U-A: Annual Spp	ReplacementFire	0.1000	0.0000				Yes	
Winterfat	U-B: SA	U-A: Annual Spp	Very-Web-Year	0.0181	0.2000				Yes	
Winterfat	U-B: SA	U-A: Annual Spp	Wild-Horse-Grazing	0.0060	0.0005				Yes	
Winterfat	U-B: SA	U-B: Exotic Forbs	Exotic-Invasion	0.0005	0.0000				Yes	
Winterfat	U-B: SA	U-B: SA	Early-Spring-Cattle-Grazing-byYr	0.0277	0.0005				No	
Winterfat	U-B: SA	U-B: SA	Fall-Cattle-Grazing-byYr	0.0035	0.9990				No	
Winterfat	U-B: SA	U-B: SA	FeralHorse-Grazing	0.0060	0.0005				-1	No
Winterfat	U-B: SA	U-B: SA	Herbicide-PlateauSeed	0.0000	0.5000				Yes	
Winterfat	U-B: SA	U-B: SA	Late-Spring-Cattle-Grazing-byYr	0.0277	0.0005				-1	No
Winterfat	U-B: SA	U-B: SA	Very-Web-Year	0.0181	0.8000				Yes	
Winterfat	U-B: SA	U-B: SA	Wild-Horse-Grazing	0.0060	0.0005				-1	No
Winterfat	U-B: SAP	B: Open	Herbicide-Plateau	0.0000	0.0000				No	
Winterfat	U-B: SAP	U-A: Annual Spp	Early-Spring-Cattle-Grazing-byYr	0.0277	0.0005				Yes	
Winterfat	U-B: SAP	U-A: Annual Spp	Fall-Cattle-Grazing-byYr	0.0035	0.9990				Yes	
Winterfat	U-B: SAP	U-A: Annual Spp	FeralHorse-Grazing	0.0060	0.0005				Yes	
Winterfat	U-B: SAP	U-A: Annual Spp	Late-Spring-Cattle-Grazing-byYr	0.0277	0.9990				Yes	
Winterfat	U-B: SAP	U-A: Annual Spp	ReplacementFire	0.1000	0.5000				Yes	
Winterfat	U-B: SAP	U-A: Annual Spp	Summer-Cattle-Grazing-byYr	0.0035	0.9990				Yes	
Winterfat	U-B: SAP	U-A: Annual Spp	Very-Web-Year	0.0181	0.1000				Yes	

Winterfat	U-B-SAP	U-A Annual Spp	Wild-Horse-Grazing	0.0060	0.9990	Yes	
Winterfat	U-B-SAP	U-A-SAP	ReplacementFire	0.0250	0.5000	Yes	
Winterfat	U-B-SAP	U-A-SAP	Very-Web-Year	0.0181	0.1000	Yes	
Winterfat	U-B-SAP	U-B Exotic Forbs	Exotic-Invasion	0.0005	0.0005	No	
Winterfat	U-B-SAP	U-B-SA	FeralHorse-Grazing	0.0060	0.9990	Yes	
Winterfat	U-B-SAP	U-B-SA	Late-Spring-Cattle-Grazing-byYr	0.0277	0.0005	Yes	
Winterfat	U-B-SAP	U-B-SA	Wild-Horse-Grazing	0.0060	0.9990	Yes	
Winterfat	U-B-SAP	U-B-SAP	Early-Spring-Cattle-Grazing-byYr	0.0277	0.0005	No	
Winterfat	U-B-SAP	U-B-SAP	Fall-Cattle-Grazing-byYr	0.0035	0.9990	No	
Winterfat	U-B-SAP	U-B-SAP	FeralHorse-Grazing	0.0060	0.0005	-2 No	
Winterfat	U-B-SAP	U-B-SAP	Herbicide-Plateau	0.0000	0.0000	No	
Winterfat	U-B-SAP	U-B-SAP	Late-Spring-Cattle-Grazing-byYr	0.0277	0.0005	-1 No	
Winterfat	U-B-SAP	U-B-SAP	Summer-Cattle-Grazing-byYr	0.0035	0.9990	No	
Winterfat	U-B-SAP	U-B-SAP	Very-Web-Year	0.0181	0.8000	Yes	
Winterfat	U-B-SAP	U-B-SAP	Wild-Horse-Grazing	0.0060	0.9990	-2 No	
Winterfat	U-B Seeded Native	B-Open	Natural-Recovery	0.3300	0.0000	No	5
Winterfat	U-B Seeded Native	U-A Bare Ground	Early-Spring-Cattle-Grazing-byYr	0.0277	0.9990	Yes	
Winterfat	U-B Seeded Native	U-A Bare Ground	Fall-Cattle-Grazing-byYr	0.0035	0.0005	Yes	
Winterfat	U-B Seeded Native	U-A Bare Ground	FeralHorse-Grazing	0.0060	0.9990	Yes	
Winterfat	U-B Seeded Native	U-A Bare Ground	Late-Spring-Cattle-Grazing-byYr	0.0277	0.0005	Yes	
Winterfat	U-B Seeded Native	U-A Bare Ground	Summer-Cattle-Grazing-byYr	0.0035	0.9990	Yes	
Winterfat	U-B Seeded Native	U-A Bare Ground	Wild-Horse-Grazing	0.0060	0.0005	Yes	
Winterfat	U-B Seeded Native	U-A Seeded Native	Very-Web-Year	0.0181	0.2000	Yes	
Winterfat	U-B Seeded Native	U-B Depleted	FeralHorse-Grazing	0.0060	0.0005	No	
Winterfat	U-B Seeded Native	U-B Depleted	Late-Spring-Cattle-Grazing-byYr	0.0277	0.9990	No	
Winterfat	U-B Seeded Native	U-B Depleted	Wild-Horse-Grazing	0.0060	0.0005	Yes	
Winterfat	U-B Seeded Native	U-B Exotic Forbs	Exotic-Invasion	0.0005	0.0005	Yes	
Winterfat	U-B Seeded Native	U-B-SAP	AS-Invasion	0.0050	0.0000	No	50
Winterfat	U-B Seeded Native	U-B Seeded Native	Early-Spring-Cattle-Grazing-byYr	0.0277	0.9990	Yes	
Winterfat	U-B Seeded Native	U-B Seeded Native	Fall-Cattle-Grazing-byYr	0.0035	0.0005	No	
Winterfat	U-B Seeded Native	U-B Seeded Native	FeralHorse-Grazing	0.0060	0.9990	-2 No	
Winterfat	U-B Seeded Native	U-B Seeded Native	Late-Spring-Cattle-Grazing-byYr	0.0277	0.0005	-1 No	
Winterfat	U-B Seeded Native	U-B Seeded Native	Summer-Cattle-Grazing-byYr	0.0035	0.9990	No	
Winterfat	U-B Seeded Native	U-B Seeded Native	Very-Web-Year	0.0181	0.8000	No	
Winterfat	U-B Seeded Native	U-B Seeded Native	Wild-Horse-Grazing	0.0060	0.9990	-2 No	
Winterfat	U-B-SI	B-Open	Natural-Recovery	0.0010	0.0000	No	10
Winterfat	U-B-SI	U-A-SI	Very-Web-Year	0.0181	0.2000	Yes	
Winterfat	U-B-SI	U-B-SI	Early-Spring-Cattle-Grazing-byYr	0.0277	0.0005	Yes	
Winterfat	U-B-SI	U-B-SI	Fall-Cattle-Grazing-byYr	0.0035	0.9990	No	
Winterfat	U-B-SI	U-B-SI	FeralHorse-Grazing	0.0060	0.0005	No	
Winterfat	U-B-SI	U-B-SI	Late-Spring-Cattle-Grazing-byYr	0.0277	0.9990	No	
Winterfat	U-B-SI	U-B-SI	Summer-Cattle-Grazing-byYr	0.0035	0.0005	Yes	
Winterfat	U-B-SI	U-B-SI	Very-Web-Year	0.0181	0.8000	Yes	
Winterfat	U-B-SI	U-B-SI	Wild-Horse-Grazing	0.0060	0.0005	No	
Winterfat	U-B-SI	U-B-SI	AS-Invasion	0.0010	0.0000	No	
Winterfat	U-B-SHAS	U-A-SHAS	ReplacementFire	0.0010	0.0000	Yes	
Winterfat	U-B-SHAS	U-A-SHAS	Very-Web-Year	0.0180	0.2000	Yes	
Winterfat	U-B-SHAS	U-B-SI	Competition	0.3300	0.0000	No	3
Winterfat	U-B-SHAS	U-B-SHAS	Early-Spring-Cattle-Grazing-byYr	0.0277	0.9990	No	
Winterfat	U-B-SHAS	U-B-SHAS	Fall-Cattle-Grazing-byYr	0.0035	0.0005	Yes	
Winterfat	U-B-SHAS	U-B-SHAS	FeralHorse-Grazing	0.0060	0.9990	No	
Winterfat	U-B-SHAS	U-B-SHAS	Late-Spring-Cattle-Grazing-byYr	0.0277	0.0005	No	
Winterfat	U-B-SHAS	U-B-SHAS	Summer-Cattle-Grazing-byYr	0.0035	0.9990	No	
Winterfat	U-B-SHAS	U-B-SHAS	Very-Web-Year	0.0180	0.8000	Yes	
Winterfat	U-B-SHAS	U-B-SHAS	Web-Year	0.0670	0.0000	No	
Winterfat	U-B-SHAS	U-B-SHAS	Wild-Horse-Grazing	0.0060	0.0005	No	
Winterfat	U-C Depleted	U-A Bare Ground	Early-Spring-Cattle-Grazing-byYr	0.0277	0.9990	Yes	
Winterfat	U-C Depleted	U-A Bare Ground	Fall-Cattle-Grazing-byYr	0.0035	0.0005	Yes	
Winterfat	U-C Depleted	U-A Bare Ground	FeralHorse-Grazing	0.0060	0.9990	Yes	
Winterfat	U-C Depleted	U-A Bare Ground	Late-Spring-Cattle-Grazing-byYr	0.0277	0.9990	Yes	
Winterfat	U-C Depleted	U-A Bare Ground	Summer-Cattle-Grazing-byYr	0.0035	0.9990	Yes	
Winterfat	U-C Depleted	U-A Bare Ground	Very-Web-Year	0.0181	0.5000	Yes	
Winterfat	U-C Depleted	U-A Bare Ground	Wild-Horse-Grazing	0.0060	0.9990	Yes	
Winterfat	U-C Depleted	U-B Depleted	Very-Web-Year	0.0181	0.1500	Yes	
Winterfat	U-C Depleted	U-B Exotic Forbs	Exotic-Invasion	0.0005	0.0005	No	
Winterfat	U-C Depleted	U-C Depleted	Early-Spring-Cattle-Grazing-byYr	0.0277	0.0005	Yes	
Winterfat	U-C Depleted	U-C Depleted	Fall-Cattle-Grazing-byYr	0.0035	0.9990	No	
Winterfat	U-C Depleted	U-C Depleted	FeralHorse-Grazing	0.0060	0.0005	-2 No	
Winterfat	U-C Depleted	U-C Depleted	Late-Spring-Cattle-Grazing-byYr	0.0277	0.0005	-1 No	
Winterfat	U-C Depleted	U-C Depleted	Summer-Cattle-Grazing-byYr	0.0035	0.0005	No	
Winterfat	U-C Depleted	U-C Depleted	Very-Web-Year	0.0181	0.8000	Yes	
Winterfat	U-C Depleted	U-C Depleted	Wild-Horse-Grazing	0.0060	0.0005	-2 No	
Winterfat	U-C Depleted	U-C-SA	AS-Invasion	0.0050	0.0000	No	
Winterfat	U-C Exotic Forbs	U-A Exotic Forbs	Seed	0.0000	0.5000	Yes	20
Winterfat	U-C Exotic Forbs	U-A-SI	Seed	0.0000	0.5000	Yes	20
Winterfat	U-CSA	C-Closed	Herbicide-PlateauSeed	0.0000	0.5000	No	
Winterfat	U-CSA	U-A Annual Spp	Early-Spring-Cattle-Grazing-byYr	0.0277	0.9990	Yes	
Winterfat	U-CSA	U-A Annual Spp	Fall-Cattle-Grazing-byYr	0.0035	0.0005	Yes	
Winterfat	U-CSA	U-A Annual Spp	FeralHorse-Grazing	0.0060	0.9990	Yes	
Winterfat	U-CSA	U-A Annual Spp	Late-Spring-Cattle-Grazing-byYr	0.0277	0.5000	Yes	
Winterfat	U-CSA	U-A Annual Spp	ReplacementFire	0.0250	0.5000	Yes	
Winterfat	U-CSA	U-A Annual Spp	Summer-Cattle-Grazing-byYr	0.0035	0.5000	Yes	
Winterfat	U-CSA	U-A Annual Spp	Very-Web-Year	0.0181	0.5000	Yes	
Winterfat	U-CSA	U-A Annual Spp	Wild-Horse-Grazing	0.0060	0.5000	Yes	
Winterfat	U-CSA	U-B-SA	Very-Web-Year	0.0181	0.5000	Yes	
Winterfat	U-CSA	U-C Exotic Forbs	Exotic-Invasion	0.0005	0.0005	Yes	
Winterfat	U-CSA	U-CSA	Early-Spring-Cattle-Grazing-byYr	0.0277	0.9990	No	
Winterfat	U-CSA	U-CSA	Fall-Cattle-Grazing-byYr	0.0035	0.0005	No	
Winterfat	U-CSA	U-CSA	FeralHorse-Grazing	0.0060	0.9990	-1 No	
Winterfat	U-CSA	U-CSA	Herbicide-PlateauSeed	0.0000	0.5000	Yes	
Winterfat	U-CSA	U-CSA	Late-Spring-Cattle-Grazing-byYr	0.0277	0.5000	-1 No	
Winterfat	U-CSA	U-CSA	Summer-Cattle-Grazing-byYr	0.0035	0.5000	No	
Winterfat	U-CSA	U-CSA	Very-Web-Year	0.0181	0.5000	Yes	
Winterfat	U-CSA	U-CSA	Wild-Horse-Grazing	0.0060	0.5000	-1 No	
Winterfat	U-CSAP	C-Closed	Herbicide-Plateau	0.0000	0.5000	No	
Winterfat	U-CSAP	U-A Annual Spp	Early-Spring-Cattle-Grazing-byYr	0.0277	0.5000	Yes	
Winterfat	U-CSAP	U-A Annual Spp	Fall-Cattle-Grazing-byYr	0.0035	0.5000	Yes	
Winterfat	U-CSAP	U-A Annual Spp	FeralHorse-Grazing	0.0060	0.5000	Yes	
Winterfat	U-CSAP	U-A Annual Spp	Late-Spring-Cattle-Grazing-byYr	0.0277	0.9990	Yes	
Winterfat	U-CSAP	U-A Annual Spp	ReplacementFire	0.0250	0.5000	Yes	
Winterfat	U-CSAP	U-A Annual Spp	Summer-Cattle-Grazing-byYr	0.0035	0.9990	Yes	
Winterfat	U-CSAP	U-A Annual Spp	Very-Web-Year	0.0181	0.0250	Yes	
Winterfat	U-CSAP	U-A Annual Spp	Wild-Horse-Grazing	0.0060	0.9990	Yes	
Winterfat	U-CSAP	U-A-SAP	ReplacementFire	0.0250	0.5000	Yes	
Winterfat	U-CSAP	U-A-SAP	Very-Web-Year	0.0181	0.0250	Yes	
Winterfat	U-CSAP	U-B-SA	FeralHorse-Grazing	0.0060	0.5000	Yes	
Winterfat	U-CSAP	U-B-SA	Late-Spring-Cattle-Grazing-byYr	0.0277	0.9990	Yes	
Winterfat	U-CSAP	U-B-SA	Wild-Horse-Grazing	0.0060	0.0005	Yes	
Winterfat	U-CSAP	U-B-SAP	Very-Web-Year	0.0181	0.1500	Yes	
Winterfat	U-CSAP	U-C Exotic Forbs	Exotic-Invasion	0.0005	0.5000	No	
Winterfat	U-CSAP	U-CSAP	Early-Spring-Cattle-Grazing-byYr	0.0277	0.5000	No	
Winterfat	U-CSAP	U-CSAP	Fall-Cattle-Grazing-byYr	0.0035	0.5000	No	
Winterfat	U-CSAP	U-CSAP	FeralHorse-Grazing	0.0060	0.5000	-2 No	
Winterfat	U-CSAP	U-CSAP	Herbicide-Plateau	0.0000	0.5000	No	
Winterfat	U-CSAP	U-CSAP	Late-Spring-Cattle-Grazing-byYr	0.0277	0.9990	-1 No	
Winterfat	U-CSAP	U-CSAP	Summer-Cattle-Grazing-byYr	0.0035	0.0005	No	
Winterfat	U-CSAP	U-CSAP	Very-Web-Year	0.0181	0.8000	Yes	
Winterfat	U-CSAP	U-CSAP	Wild-Horse-Grazing	0.0060	0.0005	-2 No	

Winterfat	U-CSI	C-Closed	Natural-Recovery	0.0100		No	10
Winterfat	U-CSI	U-ASI	Very-Web-Year	0.0181	0.0500	Yes	
Winterfat	U-CSI	U-BSI	Very-Web-Year	0.0181	0.1500	Yes	
Winterfat	U-CSI	U-CSI	Early-Spring-Cattle-Grazing-byYr	0.0277	0.0005	No	
Winterfat	U-CSI	U-CSI	Fall-Cattle-Grazing-byYr	0.0035	0.9990	No	
Winterfat	U-CSI	U-CSI	FeralHorse-Grazing	0.0060	0.0005	No	
Winterfat	U-CSI	U-CSI	Late-Spring-Cattle-Grazing-byYr	0.0277	0.9990	No	
Winterfat	U-CSI	U-CSI	Summer-Cattle-Grazing-byYr	0.0035	0.0005	No	
Winterfat	U-CSI	U-CSI	Very-Web-Year	0.0181	0.8000	Yes	
Winterfat	U-CSI	U-CSI	Wild-Horse-Grazing	0.0060	0.0005	No	
Winterfat	U-CSI	U-CSHAS	AS-Invasion	0.0010		No	
Winterfat	U-CSHAS	U-ASHAS	ReplacementFire	0.0010		Yes	
Winterfat	U-CSHAS	U-ASHAS	Very-Web-Year	0.0180	0.0500	Yes	
Winterfat	U-CSHAS	U-BSHAS	Very-Web-Year	0.0180	0.1500	Yes	
Winterfat	U-CSHAS	U-CSI	Competition	0.3300		No	3
Winterfat	U-CSHAS	U-CSHAS	Early-Spring-Cattle-Grazing-byYr	0.0277	0.0005	No	
Winterfat	U-CSHAS	U-CSHAS	Fall-Cattle-Grazing-byYr	0.0035	0.9990	No	
Winterfat	U-CSHAS	U-CSHAS	FeralHorse-Grazing	0.0060	0.0005	No	
Winterfat	U-CSHAS	U-CSHAS	Late-Spring-Cattle-Grazing-byYr	0.0277	0.9990	No	
Winterfat	U-CSHAS	U-CSHAS	Summer-Cattle-Grazing-byYr	0.0035	0.0005	No	
Winterfat	U-CSHAS	U-CSHAS	Very-Web-Year	0.0180	0.8000	Yes	
Winterfat	U-CSHAS	U-CSHAS	Web-Year	0.0670		No	
Winterfat	U-CSHAS	U-CSHAS	Wild-Horse-Grazing	0.0060	0.9990	No	

APPENDIX 5: Temporal Multipliers

Fire Activity Variability

Federal data were available for fire activity from 1981 to 2014 for the Bank Study Area. Data from the federal Monitoring Trends in Burn Severity (MTBS) were downloaded for the whole western U.S.A. and time series of fire size from 1981 to 2014 were extracted by “clipping” to the project areas (all ownerships) with ARC GIS 10 (Figure A5-1). These geodata were also supplemented with data from the Federal Fire Occurrence Data.

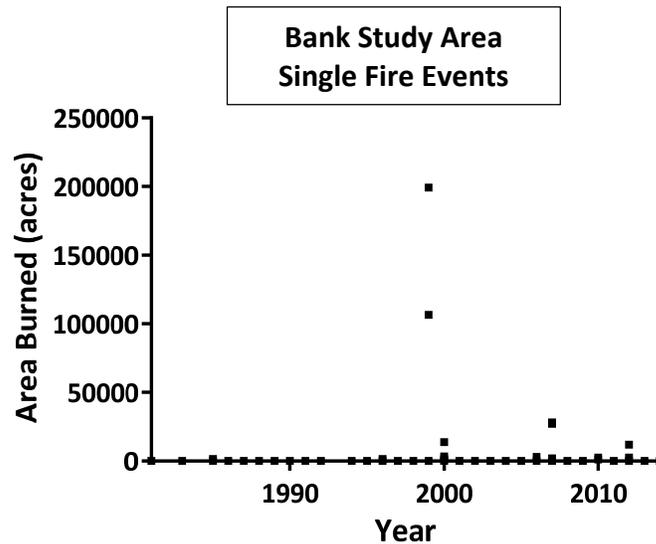


Figure A5-1. Area burned (acres) for single events from 1981 to 2014 for the Bank Study Area based on downloaded geodata from MTBS. Maximum fire size recorded was 199,181 acres in 1999.

To introduce future fire variability into simulations, we used properties of previous fires and past precipitation time series to calculate time series of future burn area. These time series were used as replicates in the simulations.

First, maximum fire size was obtained from past fire data. The maximum fire size was 199,181 acres for the Bank Study Area. Maximum fire size determined the upper limit of future fires because the rest of the calculation of area burned was a non-dimensional function of fire variability between zero and one based on current and past drought levels. To capture drought variability we used the Standard Precipitation Index (SPI), which was first published in 1993 as a drought index based only on precipitation (McKee, Doesken, and Kleist 1993). SPI describes the precipitation for a given timeframe compared to the average for site. One advantage of SPI is that it can be calculated for a variety of time scales. Different time scales reflect the fact that some ecological and physical processes operate at different time scales.

Second, ten 35-year time series of SPI (1895-2014) ending in August for cumulative 8-month and 24-month (from the previous year for the latter) periods for the climatic region containing the project areas were extracted by copying 35-year partial time series starting at 10 randomly selected years: 1969 for replicate #1, 1965 for replicate #2, 1957 for replicate #3, 1944 for replicate #4, 1963 for replicate #5, 1948 for replicate #6, 1962 for replicate #7, 1973 for replicate #8, 1979 for replicate #9, and 1978 for replicate #10. These starts dates were used in other temporal multipliers (described later). The 8-month SPI estimates relative precipitation during the current year (proximating fuel moisture), whereas the 24-month SPI estimates the relative precipitation from the two previous years. We assumed that fire activity increases with decreased 8-month SPI in the current year. We assumed increased fuel build up with increasing the 24-month. Shrublands that first experience consecutive years of above average precipitation, where fine fuels accumulate, followed by below average precipitation are more likely burn (Westerling and Bryant 2008; Westerling 2009). We used two Gompertz equations to represent this differential effect of years:

$$\begin{aligned} \text{Yearly shrubland-woodland area burned variability} = \\ = \text{MaxFire} \times e^{-1.1 \times \exp[-2 \times 0.01 \times \text{SPI}\{24\text{-mo}, t-1\}]} \times (1 - e^{-2.5 \times \exp[-50 \times 0.01 \times \text{SPI}\{8\text{-mo}, t\}]}) \end{aligned} \quad (\text{Eq. A5-1})$$

where MaxFire = maximum fire area, which 199,181 acres. Equation A5-1 combines two Gompertz functions to accommodate negative and positive values of SPI (tables of SPI are always multiplied by 100 that we converted back to a probability by multiplying by 0.01). The second term of equation A5-1 represents fine fuels production over two year ending in the previous year ($t-1$). Wetter years ($\text{SPI} > 0$) increase the value of this function (i.e. greater fine fuels accumulation) to a maximum of one. The third term represents the effect of the current year on fire activity. Increasingly drier soil moisture ($\text{SPI} < 0$) causes to increase to a maximum of one (e.g. maximum ignition probability). Finally, in order to create a temporal multiplier for ST-Sim, yearly values from Eq. A5-1 where divided by their temporal average over 35 years (Figure A5-2).

On the landscape, fire activity is governed by climatic conditions (modeled in Eq. A5-1) but also fire management actions, such as fire suppression. However, reference classes in the models are assigned reference fire return intervals, which do not reflect the current era of fire suppression efforts. It was assumed that the fire return intervals for uncharacteristic classes do include the impacts of current fire suppression policies. In order to account for current fire management, the effect of fire suppression was obtained by multiplying each yearly fire return interval for reference classes by 0.1. This represents a 90% success rate of fire suppression on all ignitions. We determined that fire suppression was about 90% successful as that is the approximate ratio of MTBS area burn or number of fires, respectively, and the predicted area burned or number of fires under reference conditions as simulated with the models. The 10 time-series (i.e., 10 replicates) were uploaded into ST-Sim such that each yearly value in a replicate temporal multiplier multiplied the average wildfire rate in the models for a specific time step.

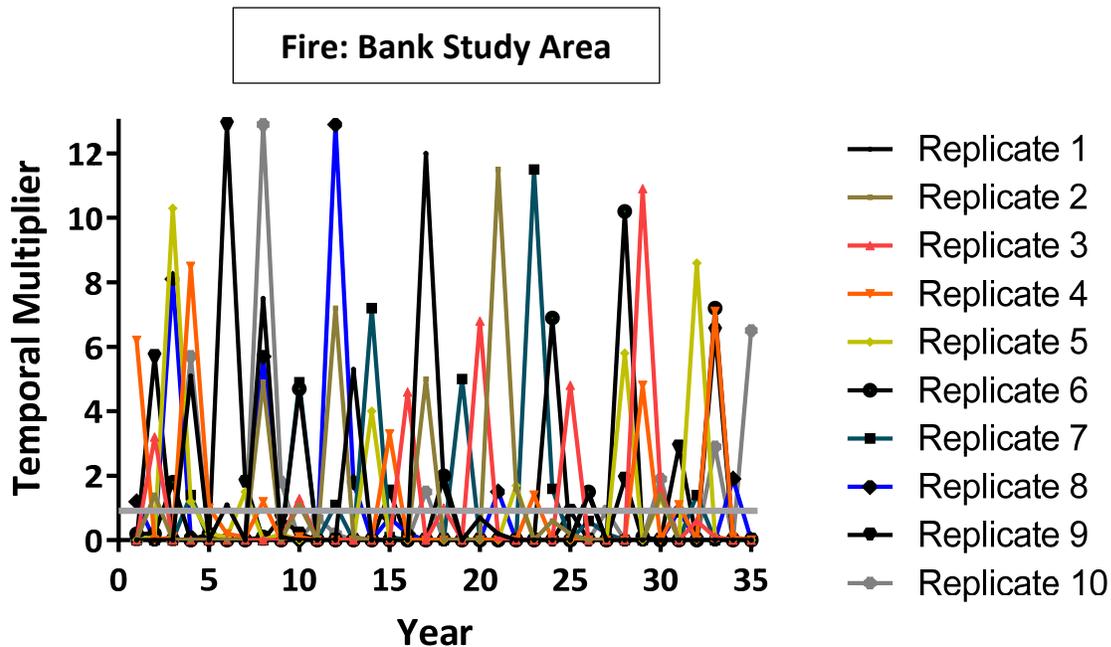


Figure A5-2. Ten replicates of temporal multipliers for fire variability used on the Bank Study Area and also applicable to the Plan of Operations. Each replicate is color-coded and represented by a 35-year period. A temporal multiplier of “1” (horizontal gray line) means no change to the rate in the ST-Sim models, whereas temporal multipliers <0 and >0, respectively, represent suppression and enhancement of a disturbance’s modeled rate.

Upland Variability

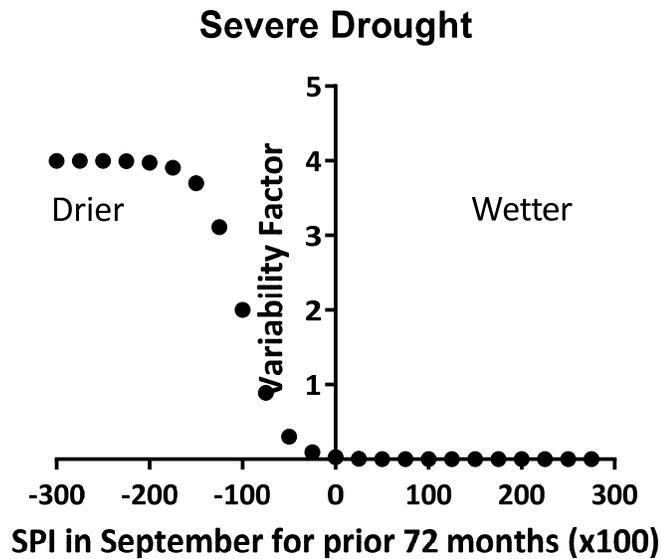
Remaining upland temporal multipliers were climate related: annual grass invasion rate, Aroga moth outbreak, drought-induced mortality, insect and disease mortality, tree invasion rate, tree encroachment, very-wet-year mortality, and wet year non-native species fertilization and shrub drowning in wet systems. The SPI was used for many of these temporal multipliers, except exotic forb/tree invasion and flooding.

We assumed that more severe droughts cause increased plant mortality, whereas wetter conditions suppress mortality. We also assumed that insect/disease mortality variability and tree encroachment were also caused by severe drought. Tree encroachment is the process by which mature conifers (i.e. juniper, pinyon, or white fir) suppress and ultimately eliminate other vegetation, generally shrubs.

We used the 72-month (five years) SPI of the current year to evaluate if the project area had experienced a severe drought in the last consecutive 72 months (Biondi et al. 2007). Because

SPI can be negative, therefore incompatible with ST-Sim as a temporal multiplier, we chose a sigmoid function (SPI = -100 is the inflection point) with negative exponentials to create positive values that increased exponentially with smaller (more negative) SPI values. Note that SPI is multiplied 100:

$$\begin{aligned} &\text{Drought, insect-disease mortality, or tree encroachment} \\ &= 4 \times e^{5 \times (-0.01 \times \text{SPI} - 1)} / (1 + e^{5 \times (-0.01 \times \text{SPI} - 1)}) \end{aligned} \tag{Eq. A5-2}$$



Function parameters were chosen such that the time series were close to zero for SPI ≥ 0 (i.e., wet), between zero and one for values of the time series ≥ -80 (i.e., a weak to moderate drought), and an enhanced drought (function >1) for SPI values < -80 (moderate to severe drought). The maximum values is four. The wettest observed SPI was 232 and the driest one was -196. To obtain the temporal multiplier time series, each value of equation A5-2 was divided by the time series' average over 35 years. Figure A5-3 shows the temporal multipliers.

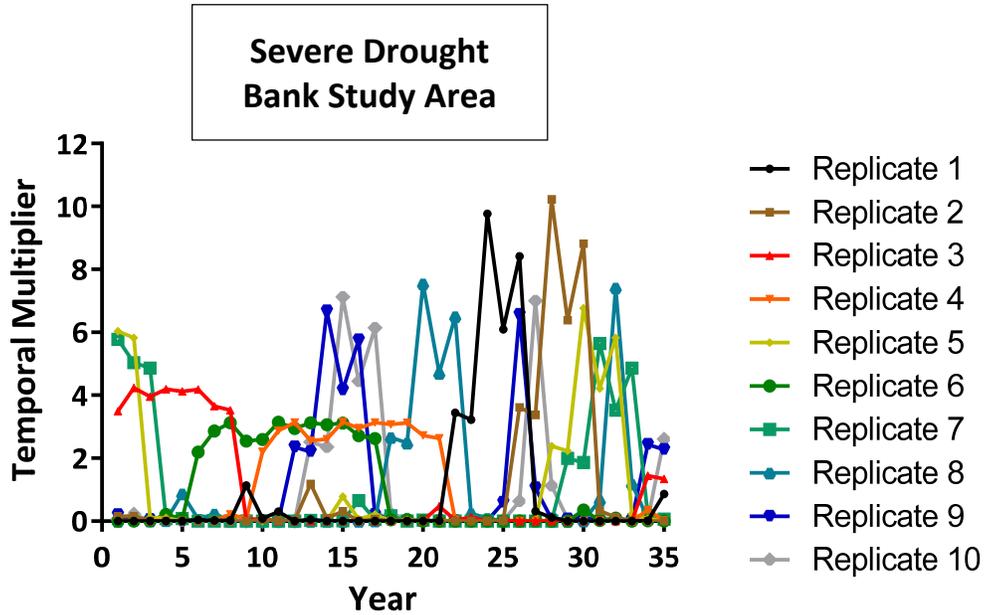
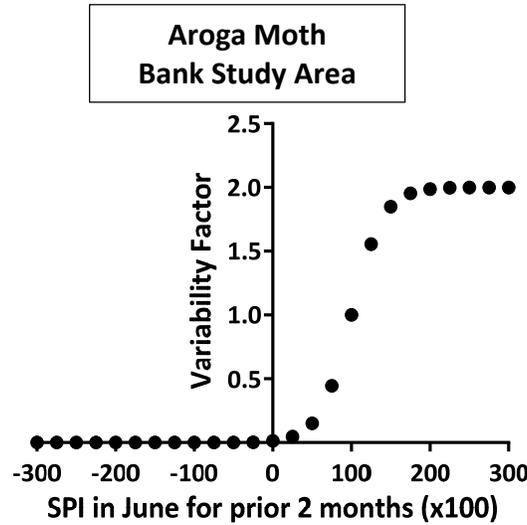


Figure A5-3. Ten replicates of temporal probability multipliers for severe drought variability. Each replicate is color-coded and represented by a 35-year period. A temporal multiplier of “1” (horizontal gray line) means no change to the rate in the ST-Sim models, whereas temporal multipliers <0 and >0, respectively, represent suppression and enhancement of a disturbance’s modeled rate.

The variability of Aroga moth outbreaks was determined by above average precipitation in May and June causing a higher likelihood of outbreaks; therefore, we used the June SPI lagged for the two prior months. We again used a sigmoid function with an inflection point of 1 where the variability factor was greater:

$$\begin{aligned}
 &\text{Aroga moth outbreak variability factor} \\
 &= 2 \times e^{5 \times (0.01 \times \text{SPI} - 1)} / (1 + e^{5 \times (0.01 \times \text{SPI} - 1)})
 \end{aligned}
 \tag{Eq. A5-3}$$



Function parameters were chosen such that the time series were close to zero for $SPI \leq 0$ (i.e., dry), between zero and one for values of the time series between zero and 100 (i.e., a weak to moderate wet period), and an enhanced outbreak (function >1) for SPI values >100 (moderate to strong wet period). The parameter “2” allowed the function to reach a maximum value of two. To obtain the temporal multiplier time series, each value of equation A5-3 was divided by the time series’ average over 30 years. Figure A5-4 shows the temporal multipliers.

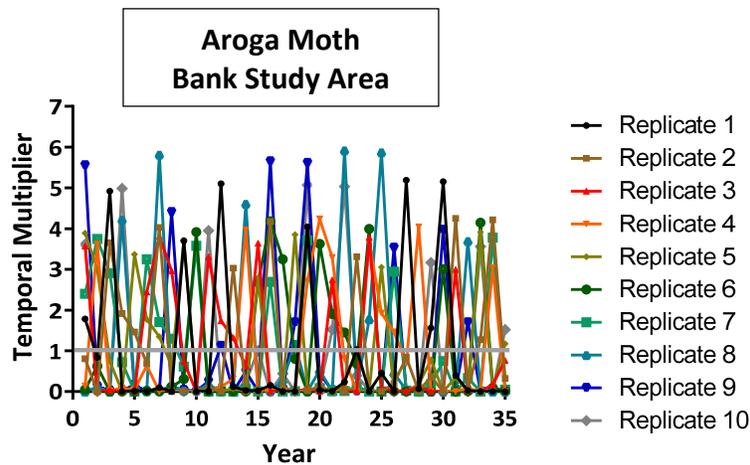
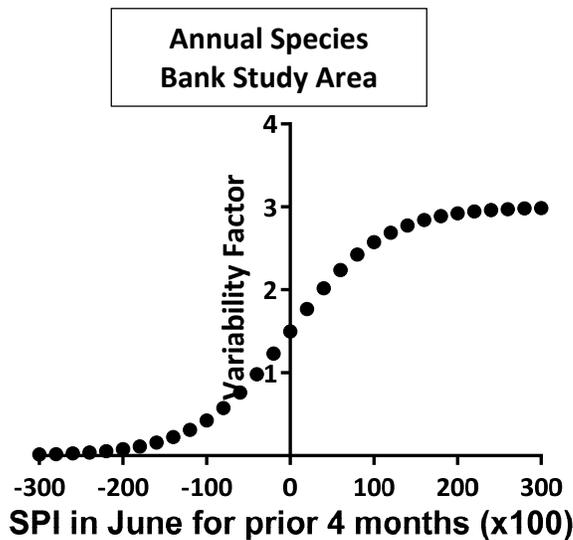


Figure A5-4. Ten replicates of temporal probability multipliers for Aroga moth outbreak variability. Each replicate is color-coded and represented by a 35-year period. A temporal multiplier of “1” (horizontal gray line) means no change to the rate in the ST-Sim models, whereas temporal multipliers <0 and >0 , respectively, represent suppression and enhancement of a disturbance’s modeled rate.

Temporal variability for non-native annual grass and forb invasion, and native tree (mostly pinyon and juniper) invasion rates were dependent on drought levels: greater drought severity, therefore lower soil moisture, was detrimental to recruitment and growth and, conversely,

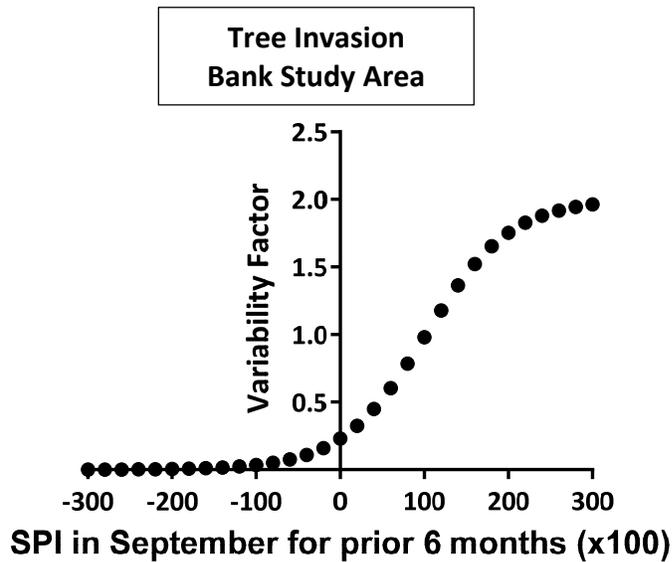
greater soil moisture favored the spread of annual grasses and trees (Bradley 2009; Brown et al. 2004; Smith et al. 2000). For simplicity, the variability of exotic forb invasion in upland systems (dry or moist that do not flood) was assumed to follow that of annual species. We assumed that tree invasion was a much slower process than annual grass invasion. SPI values from the 4-month period finishing in June (end of annual grass germination) were chosen for annual grass invasion, whereas SPI time series of 6-month period finishing in September (end of primary period of tree growth) were used for tree (white fir for higher elevations as pinyon and juniper are nearly absent from both landscapes) invasion. We used a sigmoid function with for each of annual grasses and tree invasion to represent the contribution of negative and positive SPI values expressed as positive values of invasion variability. We assumed that non-native annual species invasion can occur during droughts, but at a suppressed rate (variability factor < 1). Tree invasion variability mostly occurred during wet years. This implies that SPI was directly related to the variability of these invasion rates:

$$\text{Annual grass variability factor} = 3 \times e^{1.8 \times \exp(0.01 \times \text{SPI})} / (1 + e^{1.8 \times \exp(0.01 \times \text{SPI})}) \quad (\text{Eq. A5-4})$$



Tree invasion variability factor (below)

$$= 2 \times e^{2 \times \exp(0.01 \times [\text{SPI} + 288] - 3.9)} / (1 + e^{2 \times \exp(0.01 \times [\text{SPI} + 288] - 3.9)}) \quad (\text{Eq. A5-5})$$



Parameters values were chosen to reflect that both annual grass invasion and tree invasion happens even during moderately dry conditions and the rate is one (i.e., not different from neutral). The yearly invasion values calculated with these sigmoid functions were transformed into temporal multipliers by dividing each year's value by the temporal average of the time series (Figs. A5-5 and A5-6).

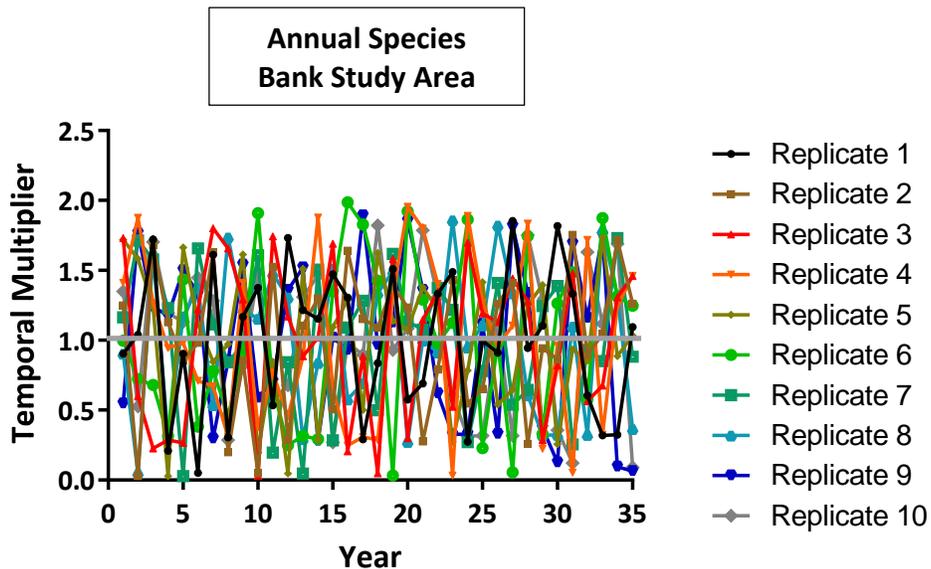


Figure A5-5. Ten replicates of temporal multipliers for non-native annual species invasion variability. Each replicate is color-coded and represented by a 35-year period. A temporal multiplier of “1”

(horizontal gray line) means no change to the rate in the ST-Sim models, whereas temporal multipliers <0 and >0, respectively, represent suppression and enhancement of a disturbance’s modeled rate.

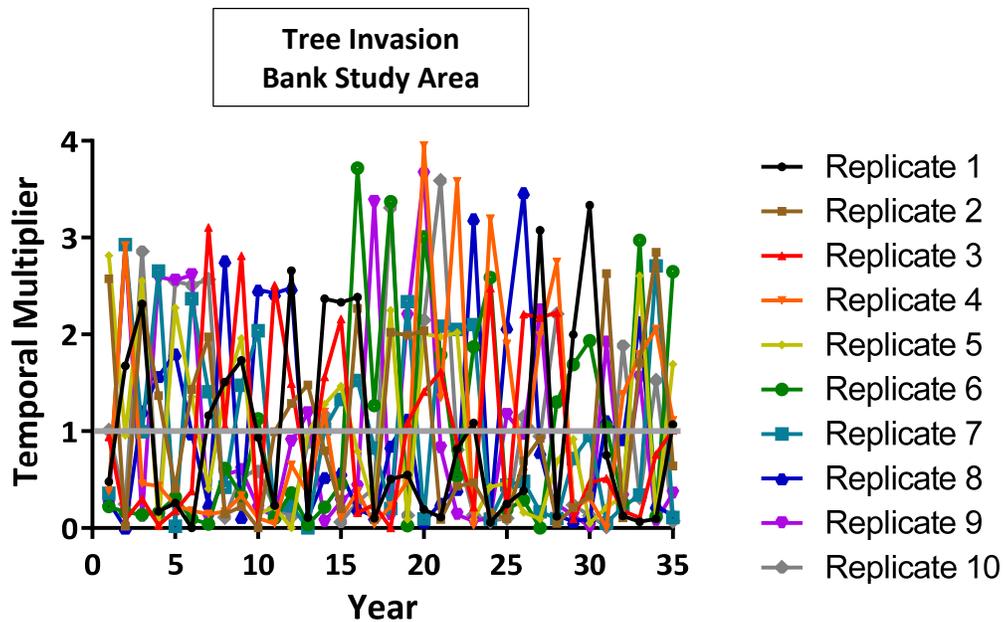
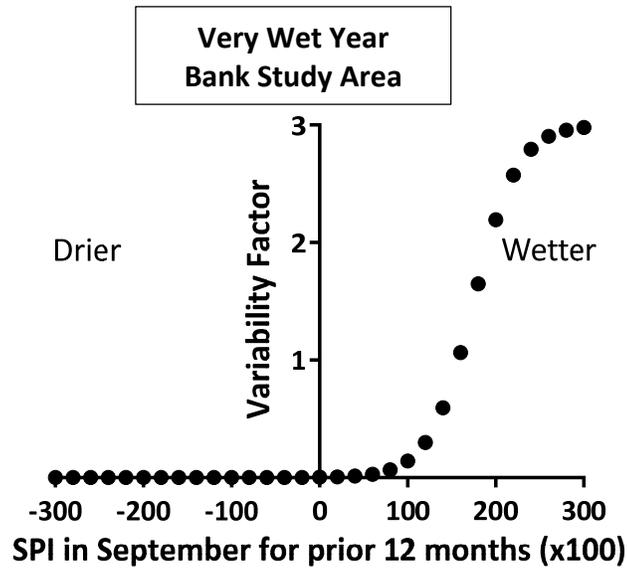


Figure A5-6. Ten replicates of temporal multipliers for tree invasion variability. Each replicate is color-coded and represented by a 35-year period. A temporal multiplier of “1” (horizontal gray line) means no change to the rate in the ST-Sim models, whereas temporal multipliers <0 and >0, respectively, represent suppression and enhancement of a disturbance’s modeled rate.

The very-wet year temporal multiplier calculation used the SPI for 12-month ending in September (end of the hydrologic year). The wet side of the SPI spectrum caused larger values. The very-wet year temporal multiplier introduced variability to mortality caused by shrub root rot or attack of roots by rootworms in salt desert communities. This factor was enhanced (>1) for SPI >180:

$$\text{Very-wet year} = 3 \times e^{3 \times (0.01 \times [\text{SPI} + 225] - 4)} / (1 + e^{3 \times (0.01 \times [\text{SPI} - 225] - 4)}) \quad (\text{Eq. A5-6})$$



The temporal multipliers were obtained by dividing each yearly value by the temporal average over 35 years (Fig. A5-7).

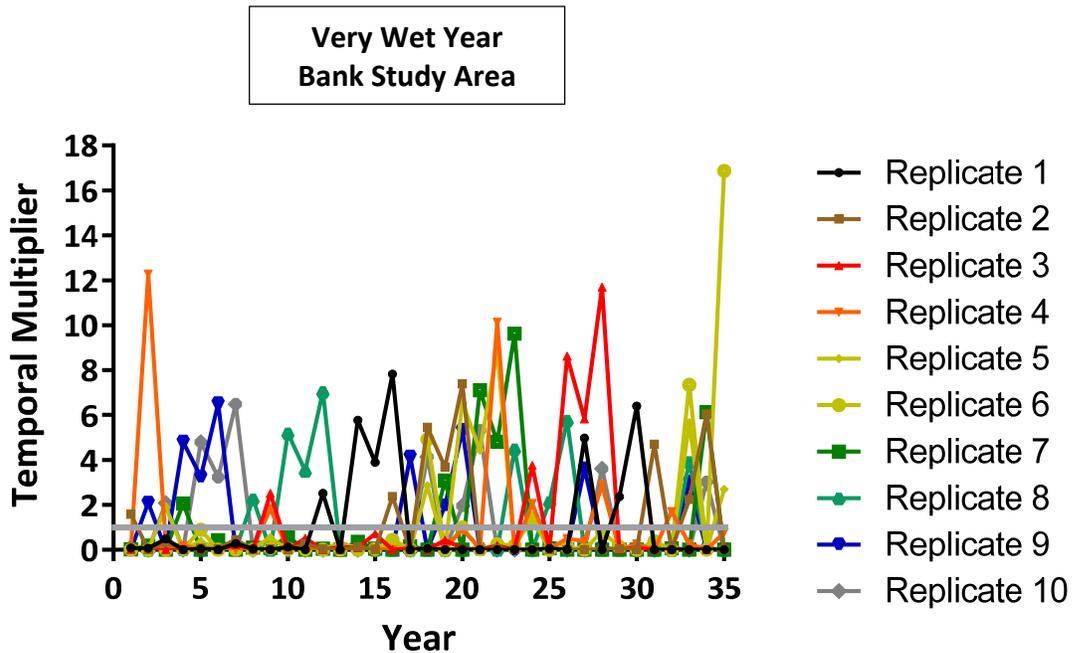
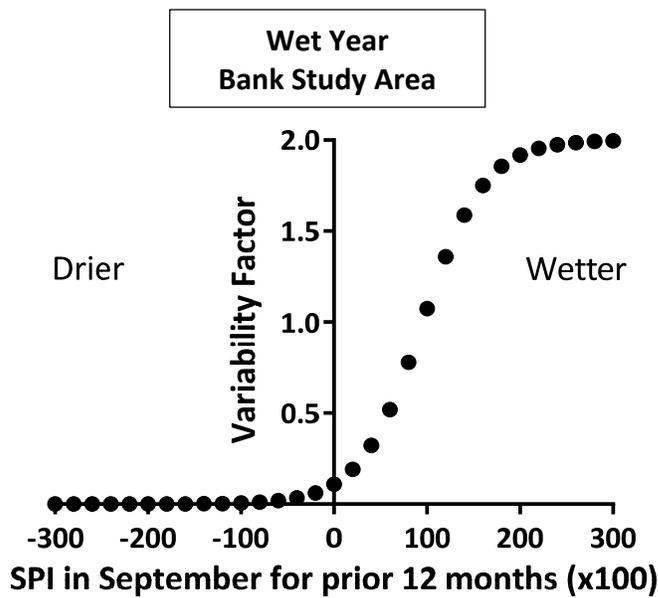


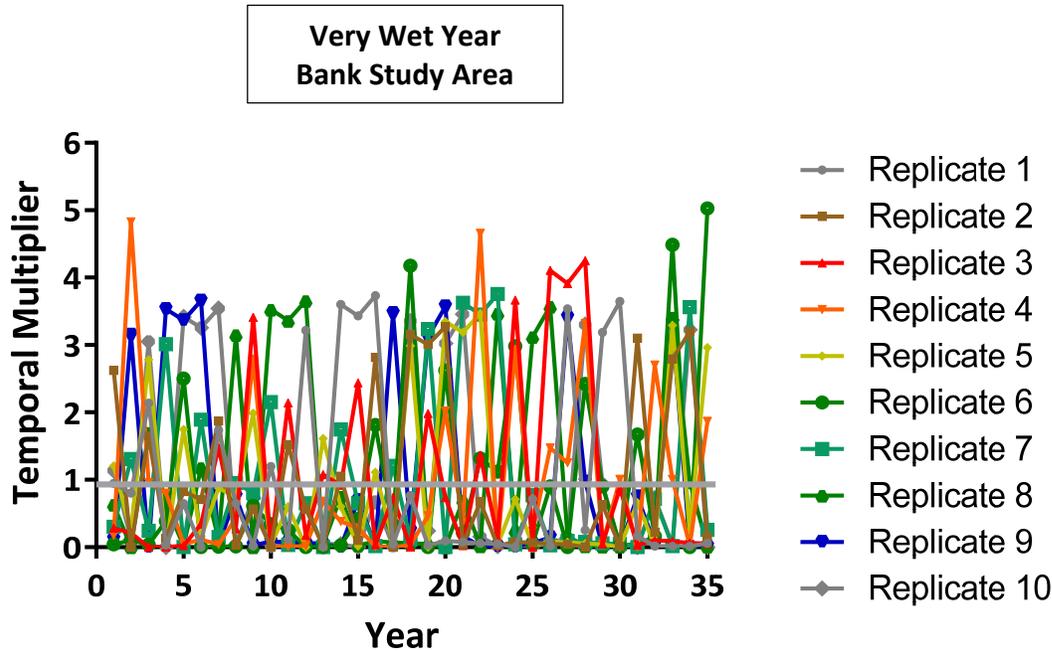
Figure A5-7. Ten temporal multipliers for very-wet years. Each replicate is color-coded and represented by a 35-year period. A temporal multiplier of “1” (horizontal gray line) means no change to the rate in the ST-Sim models, whereas temporal multipliers <0 and >0, respectively, represent suppression and enhancement of a disturbance’s modeled rate.

The wet year temporal multiplier calculation used the SPI for 12-month ending in September (end of the hydrologic year). The wet year temporal multiplier introduced variability to the process of non-native annual species foliar cover increase (soil moisture fertilization) and drowning of shrubs in wet systems such as wet meadows and saline meadows. This factor was enhanced (>1) for SPI >100:

$$\text{Very-wet year} = 2 \times e^{3 \times (0.01 \times [\text{SPI} + 225] - 3.2)} / (1 + e^{3 \times (0.01 \times [\text{SPI} - 225] - 3.2)}) \quad (\text{Eq. A5-6})$$



The temporal multipliers were obtained by dividing each yearly value by the temporal average over 35 years (Fig. A5-8).



Riparian Variability

Montane riparian and desert washes systems were strongly dependent on flood events and their discharge variation (Rood et al. 2003; McBride and Strahan 1984). We matched streams with the longest USGS gauge time series closest to the Bank Study Area and Plan of Operations for the different riparian systems. We used flow data from Lamoille Canyon in the Ruby Mountains (1944 to 2014). We created ten replicates of 35 years each by resampling the original time series using random start years before 1979 to start the time series (1948, 1965, 1957, 1944, 1963, 1948, 1962, 1973, 1977, and 1978).

Peak yearly flow data were used to calculate temporal variability for the 7-year, 20-year, and 100-year flood events, whereas annual flow data were used to derived exotic species invasion variability for wet and moist systems. Seven-year, 20-year, 30-year, and 100-year flood events were all based on filtering for increasingly higher values of annual peak flow. These flood levels were chosen based on impacts to vegetation: 7-year events kill or remove only herbaceous vegetation; 20-year events kill or remove shrubs and young trees; 30-year events cause slumping of incised banks in inset floodplains (Dr. Tamzen Stringham, University of Nevada, Reno, 2015); and 100-year events top-kill larger trees. The 30-year events were only used for bank slumping during inset floodplain formation. We used a crude recurrence analysis to obtain flow thresholds for 7-, 20-, 30- (not shown), and 100-year flood events (Fig. A5-10).

Lamoille Creek Peak Flow

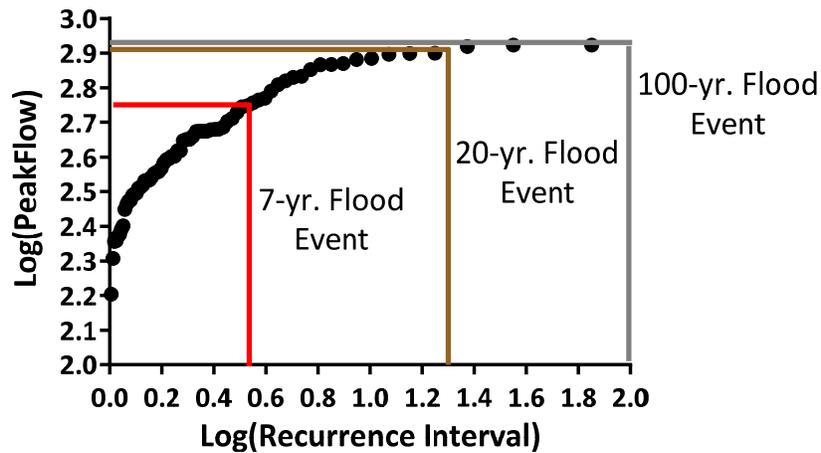


Figure A5-10. Recurrence analysis to obtain flow thresholds for 7- (red lines), 20- (brown lines), and 100-year (black lines) flood events for Lamoille Creek. Equation: Peak Flood Event = $10^{[.0.1415*\log(\text{Recurrence})+2.8386]}$.

The 7-, 20-, 30-, and 100-year flood time series, respectively, encompassed yearly flood events greater than 653, 751, 783, and 864 cfs for Lamoille Creek; otherwise, flood events were zero. Each yearly value of each time series was divided by the temporal average to obtain the temporal multipliers (Figure A5-11).

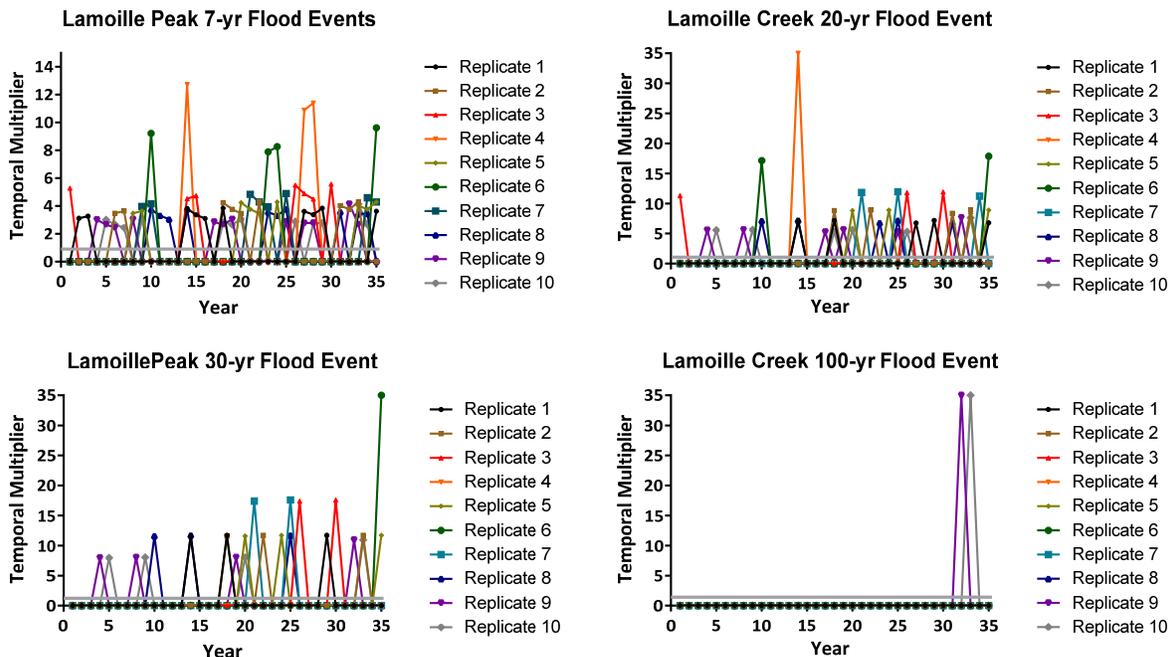


Figure A5-11. Temporal multipliers for 7-, 20-, 30-, and 100-year flood events based on peak flows from the Lamoille Creek in Nevada’s Ruby Mountains. The 10 replicates are color-coded and shown each per 35-year period. A temporal multiplier of “1” means no change (horizontal gray lines) to the rate in the ST-Sim models, whereas temporal multipliers <0 and >0, respectively, represent suppression and enhancement of a disturbance’s modeled rate.

Annual discharge from Lamoille Creek were used to determine exotic forb and exotic tree invasion rates in areas that flood and water and exotic species propagules accumulates: greasewood, moist floodplain, riparian systems, saline meadows, and wetlands. We assumed that the variability of exotic species invasion was entirely dependent on average annual discharge (annual discharge is the average discharge among months, whereas peak discharge is the maximum discharge recorded). Years of greater than average annual discharge would favor the invasion of exotic forbs and trees. The number of upland acres affected by the variability factor was very small. The rate of exotic forb invasion in ST-Sim models was, therefore, multiplied by the annual flow temporal multiplier. The temporal multipliers were obtained by using the annual flow time series without filtering and divided by the time series temporal average. Data are shown in Figure A5-12.

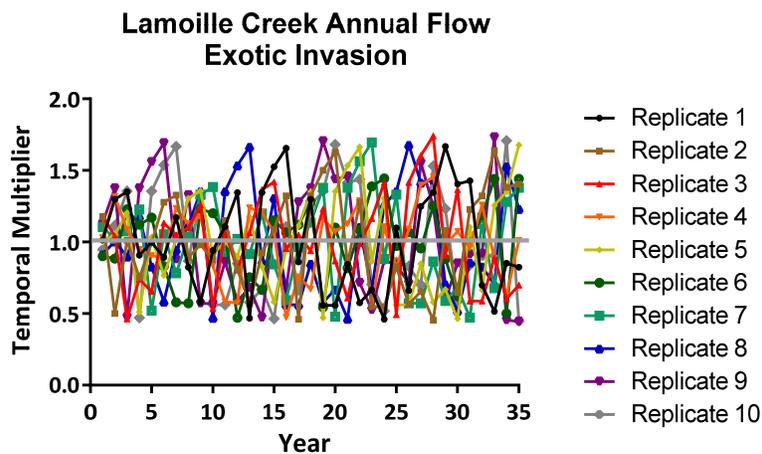


Figure A5-12. Riparian temporal multipliers for exotic species invasion calculated from annual discharge data from annual yearly flows recorded from Martin Creek, Lamoille Creek, and Humboldt River. The ten replicates are color-coded and shown each per 30-year period. A temporal multiplier of “1” means (horizontal gray line) no change to the rate in the ST-Sim models, whereas temporal multipliers <0 and >0, respectively, represent suppression and enhancement of a disturbance’s modeled rate.

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APPENDIX 6: Cost and Success Rate of Management Actions

A. Cost per area

Action	Ecological System	Cost per acre (\$)
AerialSeed+Masticate+Plateau	Sagebrush systems with trees	600
BLM-Fire-Rehab	Burned systems with annual species	0
Chainsaw-Thinning	Aspen Woodland	800
Chainsaw-Thinning	Black Sagebrush	300
Chainsaw-Thinning	Low Sagebrush	300
Exotic-Control	All moist systems	260
Fence&Water-Delivery	Aspen Woodland	400
Fence&Water-Delivery	Wet Meadow-Montane	1,900
Fence-Inspect&Maintain	Wet Meadow-Montane	22
Herbicide-Plateau+Seed+Shrub-Planting	Burned sagebrush systems dominated by annual species	280
Herbicide-Shrubs+Mow	Wet Meadow-Montane	125
Irrigation	Greasewood	1,000
Small-Tree-Lopping	Sagebrush systems with young trees	200
Weed-Inventory+Spot-Treat	All moist systems	50

B. Action success/failure rates

Action	Ecological System	Originating class	Success / Failure Proportions	Recipient classes, respectively
Aerial-Seed + Masticate + Plateau				
	Big Sagebrush-upland+trees	U-E:TEA	0.8; 0.1; 0.1	UA:SI, U-A:SI+AS, U-A:AS
	Black Sagebrush	U-D:TEA	0.6; 0.2; 0.2	UA:SI, U-A:SI+AS, U-A:AS
	Low Sagebrush	U-D:TEA	0.7; 0.15; 0.15	UA:SI, U-A:SI+AS, U-A:AS
	Montane Sagebrush Steppe-Upland	U-E:TEA	0.8; 0.1; 0.1	UA:SI, U-A:SI+AS, U-A:AS
Chainsaw-Thinning				
	Black Sagebrush	D:Open	0.9; 0.1	A:All, B:Open
	Black Sagebrush	U-D:TEA	0.05; 0.05; 0.3; 0.3; 0.3	U-A:Annual Spp, U-A:Early-Shrub, U-B:Depleted, U-B:SA, U-B:SAP
	Low Sagebrush	D:Open	0.9; 0.1	A:All, B:Open
	Low Sagebrush	U-D:TEA	0.05; 0.05; 0.3; 0.3; 0.3	U-A:Annual Spp, U-A:Early-Shrub,

Action	Ecological System	Originating class	Success / Failure Proportions	Recipient classes, respectively
				U-B:Depleted; U-B:SA, U-B:SAP
Exotic-Control				
	Montane Riparian	U-A:Exotic Forb&Tree	0.6; 0.4	A-Willow:Closed, U-A:Exotic Forb&Tree
	Montane Riparian	U-A:Incised-EFT	0.6; 0.4	U-A:Desertified, U-A:Incised-EFT
	Montane Riparian	U-A:Inset-EFT	0.6; 0.4	U-A:Inset, U-A:Inset-EFT
	Montane Riparian	U-B:Exotic Forb&Tree	0.6; 0.4	B-Willow:Closed, U-A:Exotic Forb&Tree
	Montane Riparian	U-B:Incised-EFT	0.6; 0.4	U-B:Desertified, U-A:Incised-EFT
	Montane Riparian	U-B:Inset-EFT	0.6; 0.4	U-B:Inset, U-A:Inset-EFT
	Montane Riparian	U-C:Exotic Forb&Tree	0.6; 0.4	C-Cottonwood:Closed, U-C:Exotic Forb&Tree
	Montane Riparian	U-C:Incised-EFT	0.6; 0.4	U-C:Desertified, U-A:Incised-EFT
	Wet Meadow-Montane	U-A:Exotic Forbs	0.6; 0.4	A:All, U-A:Exotic Forbs
	Wet Meadow-Montane	U-A:Incised-EFT	0.6; 0.4	U-A:Dense, U-A:Incised-EFT
	Wet Meadow-Montane	U-B:Exotic Forbs	0.6; 0.4	U-A:Incised-EFT, B:Closed
	Wet Meadow-Montane	U-B:Incised-EFT	0.6; 0.4	U-B:Desertified, U-A:Incised-EFT
	Wet Meadow-Montane	U-C:Exotic Forbs	0.6; 0.4	C:Open, U-A:Exotic Forbs
	Wet Meadow-Montane	U-C:Incised-EFT	0.6; 0.4	U-C:Desertified, U-A:Incised-EFT
Fence & Water-Delivery				
	Wet Meadow-Montane	All Classes	1.0; 0.0	All Classes
Fence-Inspect & Maintain				
	Wet Meadow-Montane	All Fenced Classes	1.0; 0.0	All Fenced Classes
Herbicide-Plateau + Seed + Shrub-Planting				
	Big Sagebrush-upland+trees	U-A:Annual Spp	0.7; 0.15; 0.15	U-A:SI; U-A:SI+AS; U-A:Annual Spp
	Black Sagebrush	U-A:Annual Spp	0.7; 0.15; 0.15	U-A:SI; U-A:SI+AS; U-A:Annual Spp
	Low Sagebrush	U-A:Annual Spp	0.7; 0.15; 0.15	U-A:SI; U-A:SI+AS; U-A:Annual Spp

Action	Ecological System	Originating class	Success / Failure Proportions	Recipient classes, respectively
	Montane Sagebrush Steppe-Upland	U-A:Annual Spp	0.8; 0.1; 0.1	U-A:SI; U-A:SI+AS; U-A:Annual Spp
Herbicide-Shrubs + Mow				
	Wet Meadow-Montane	U-A:Shrb-Frb Encr	0.8; 0.2	A:All; U-A:Shrb-Frb Encr
	Wet Meadow-Montane	U-B:Shrb-Frb Encr	0.8; 0.1; 0.1	A:All; U-A:Shrb-Frb Encr; U-B:Shrb-Frb Encr
	Wet Meadow-Montane	U-C:Shrb-Frb Encr	0.8; 0.1; 0.1	A:All; U-A:Shrb-Frb Encr; U-C:Shrb-Frb Encr
Irrigation				
	Greasewood	All Classes	1.0; 0.0	Basin Wildry-bottomland: U-A:Pasture
Small-Tree-Lopping				
	Big Sagebrush-upland+trees	D:Dense	1.0; 0.0	C:Dense
	Big Sagebrush-upland+trees	D:Open	1.0; 0.0	C:Closed
	Big Sagebrush-upland+trees	U-D:SA	1.0; 0.0	U-C:SA
	Big Sagebrush-upland+trees	U-D:SAP	1.0; 0.0	U-C:SAP
	Big Sagebrush-upland+trees	U-D:SAP-Dense	1.0; 0.0	U-C:SAP-Dense
	Low Sagebrush	C:Closed	1.0; 0.0	C:Closed
	Montane Sagebrush Steppe-Upland	D:Dense	1.0; 0.0	C:Dense
	Montane Sagebrush Steppe-Upland	D:Open	1.0; 0.0	C:Closed
	Montane Sagebrush Steppe-Upland	U-D:Depleted	1.0; 0.0	U-C:Depleted
	Montane Sagebrush Steppe-Upland	U-D:SA	1.0; 0.0	U-C:SA
	Montane Sagebrush Steppe-Upland	U-D:SA-Dense	1.0; 0.0	U-C:SA-Dense
	Montane Sagebrush Steppe-Upland	U-D:SAP	1.0; 0.0	U-C:SAP
	Montane Sagebrush Steppe-Upland	U-D:SAP-Dense	1.0; 0.0	U-C:SAP-Dense

Action	Ecological System	Originating class	Success / Failure Proportions	Recipient classes, respectively
Weed-Inventory+Spot-Treat				
	Montane Riparian	All Classes	1.0; 0.0	To Same Classes
	Wet Meadow-Montane	All Classes	1.0; 0.0	To Same Classes

APPENDIX 7: Unified Ecological Departure

For ecological systems, the primary metric used to report current ecological condition is known as Unified Ecological Departure (UED). UED is a single, integrated measure that combines concepts of: (1) ecological departure in the traditional sense, (2) uncharacteristic vegetation classes that are particularly undesirable, and (3) allowable amounts of certain uncharacteristic vegetation classes that are not harmful or benign. Each of these three concepts will be described in turn below, followed by how they are merged into the metric of unified ecological departure.

Traditional Ecological Departure

In its traditional sense, ecological departure is a broad-scale measure of the condition or “health” of each ecological system. It was originally developed under the national LANDFIRE program as the concept of Fire Regime Condition (Rollins 2009), and has been used as the main measure of condition for ecological systems in many previous LCF™ projects in California, Nevada, and Utah. Ecological departure integrates species composition, vegetation structure, and disturbance regimes to estimate an ecological system’s *departure* from its natural range of variability. Technically, an ecological departure value calculates the dissimilarity between:

- (1) The percentage of each vegetation classes expected under reference conditions (NRV, Table A7-1); and
- (2) The percentage of each vegetation classes that is currently present on the landscape.

Traditional ecological departure thus summarizes, in a single number, how out-of-balance each ecological system is in terms of dissimilarity between the current amounts of vegetation classes present in an area, and the amounts of those classes that would be expected to occur under a reference baseline of natural disturbance regimes and current climate (NRV).

Traditional ecological departure is scored on a scale of 0% to 100% departure from NRV: Zero percent represents NRV itself (no departure), while 100% represents total departure. In other words, a higher number indicates increasingly departure. These scores are further classified into “Ecological Departure Class” where: Class 1 represents low departure ($\leq 33\%$); Class 2 represents moderate departure (34 - 66%); and Class 3 represents high departure ($\geq 67\%$) (Hann et al. 2004; Rollins 2009). An example of the calculation of traditional ecological departure, and assignment to the corresponding ecological departure class, is shown in Table A7-2.

Table A7-1. Natural Range of Variability (%) for ecological systems of the Bank Study Area and Plan of Operations Study Area. Letters A to E indicate the succession position of a reference class. The terms All, Closed, and Open, respectively, refer to canopy closure of upper-layer life form relative to canopy closure potential of ecological system: variable, closed, and open canopy closure.

Vegetation Type	State Class	NRV (%)
Aspen Woodland	A:All	8
	B:Closed	26
	C:Closed	39
	D:Open	27
Basin Wildrye-bottomland	A:All	23
	B:Closed	70
	C:Open	7
Basin Wildrye-montane	A:All	21
	B:Closed	62
	C:Open	17
Big Sagebrush-semidesert	A:All	16
	B:Open	22
	C:Closed	62
	C:Dense	0+
Big Sagebrush-upland+trees	A:All	17
	B:Open	22
	C:Closed	48
	C:Dense	0+
	D:Dense	0+
	D:Open	7
	E:Closed	6
Black Sagebrush	A:All	16
	B:Open	50
	C:Closed	18
	D:Open	16
Curl-leaf Mountain Mahogany	A:All	6
	B:Open	10
	C:Closed	20
	D:Closed	1
	D:Open	63
Desert Wash	A:All	7
	B:Closed	93
Four-Wing Saltbush	A:All	7
	B:Open	29
	C:Closed	64
Greasewood	A:All	1
	B:Closed	99

Vegetation Type	State Class	NRV (%)
Limber Pine Woodland	A:All	10
	B:Open	13
	C:Open	77
Low Sagebrush	A:All	9
	B:Open	37
	C:Closed	46
	D:Open	8
Low Sagebrush Steppe	A:All	22
	B:Open	57
	C:Closed	21
Mixed Salt Desert	A:All	9
	B:Open	75
	C:Open	16
Moist Floodplain	A:Cottonwood	0+
	A:Willow	7
	B:Cottonwood	0+
	B:Willow	36
	C:Cottonwood	0+
	C:Willow	57
Montane Riparian	A:Cottonwood	1
	A:Willow	5
	B:Cottonwood	3
	B:Willow	17
	C:Cottonwood	8
	C:Willow	66
Montane Sagebrush Steppe-Subalpine	A:All	22
	B:Open	25
	C:Closed	48
	C:Dense	1
	D:Dense	0
	D:Open	3
	E:Closed	1
Montane Sagebrush Steppe-upland	A:All	23
	B:Open	29
	C:Closed	44
	C:Dense	1
	D:Dense	0
	D:Open	2
Mountain Shrub	A:All	8
	B:Closed	29

Vegetation Type	State Class	NRV (%)
	C:Open	59
	D:Open	3
Pickleweed	A:All	100
Pinyon-Juniper Woodland	A:All	3
	B:Open	7
	C:Open	26
	D:Open	64
Saline Meadow	A:Open	1
	B:Closed	91
	C:Open	8
Subalpine-Upper Montane Grassland	A:All	31
	B:Closed	37
	C:Open	32
Wet Meadow-bottomland	A:All	2
	B:Closed	95
	C:Open	3
Wet Meadow-Montane	A:All	7
	B:Closed	92
	C:Open	1
Wetland	A:Water	1
	A:All	1
	B:All	98
Winterfat	A:All	8
	B:Open	44
	C:Closed	48

Table A7-2. Example of calculation of traditional Ecological Departure and assignment to Ecological Departure Class.

	Vegetation Class ¹						Sum
	A	B	C	D	E	U	
Natural range of variability (%)	20	50	15	10	5	0	100%
Current acres by class in project area	182	7,950	58,718	6,659	264	46,123	119,896 ac
Current % by class in project area	0.1	6.6	49.0	5.6	0.2	38.5	100%
Minimum of NRV % or Current %	0.1	6.6	15.0	5.6	0.2	0	27.5%
Ecological Departure (%) ²							72.5%
Ecological Departure Class ³							3

1. Standard LANDFIRE coding: A = early-development; B = mid-development, closed; C = mid-development, open; D = late-development, open; E = late-development, closed; and U = uncharacteristic.
2. Ecological Departure (ED) = $100\% - \sum_{i=1}^n \min\{Current_i, NRV_i\}$
3. Ecological Departure Class: 1 for $0\% \leq ED \leq 33\%$; 2 for $34\% \leq ED \leq 66\%$; 3 for $67\% \leq ED \leq 100\%$.

Undesirability of Certain Uncharacteristic Classes

Not all uncharacteristic (non-reference) vegetation classes are equal: Some uncharacteristic classes create heightened challenges because their presence represents significant ecological degradation or unacceptably high levels of hazard to public safety, and their restoration is either very difficult (ecologically) or very expensive, or both. Such classes are particularly undesirable, and in this LCF™ project they are identified with the label “high risk vegetation classes” (HRVC). HRVCs are defined as uncharacteristic vegetation classes that meet at least one of the three following criteria:

- (1) $\geq 5\%$ cover of invasive non-native species,
- (2) very expensive to restore, or
- (3) a direct pathway to one of the aforementioned classes (invaded or very expensive to restore).

In past LCF™ projects, TNC and partners used percent-area of HRVCs as a second measure of current condition for ecological systems, alongside traditional ecological departure. This project does not report amounts of HRVCs separately, though these undesirable classes do figure prominently into the measure of unified ecological departure, explained below. In ST-Sim’s Ecological Departure menu, the value of HRVC is termed “Undesirability” and recommended to range from 0 (neutral uncharacteristic class, such as dominated by rabbitbrush) to 2 (very bad such as invaded by Russian knapweed) (Table A7-3).

Table A7-3. Level of undesirability (0 to 2) of uncharacteristic classes. If an uncharacteristic class is not listed, it is assumed that its undesirability level is zero. For full description of classes, see Appendix 1-A.

Ecological System	Undesirability Level
Aspen Woodland	
U:ASP->MSS	2
U:Depleted	1
Aspen-Mixed Conifer	
U:ASM->SF	2
Basin Wildrye-bottomland	
U:Annual Spp	1
U:Depleted	1
U:Exotic Forbs	2
Basin Wildrye-montane	
U:Annual Spp	1
U:Depleted	1
U:Exotic Forbs	2
Big Sagebrush-semidesert	
U:Annual Spp	1
U:Depleted	1
U:Exotic Forbs	2
U:SA-Closed	1
U:SA-Dense	1
Big Sagebrush-upland no trees	
U:Annual Spp	1
U:Depleted	1
U:Exotic Forbs	2
U:SA-Closed	1
U:SA-Dense	1
Big Sagebrush-upland+trees	
U:Annual Spp	1
U:Depleted	1
U:Exotic Forbs	2
U:SA-Closed	1
U:SA-Dense	1
U:TEA	1
Channel	
Channel:Exotic Forb&Tree	2
Curl-leaf Mountain Mahogany	
U:Annual Spp	1
Desert Wash	
U:Bare Ground	1
U:Exotic Forb&Tree	2
U:SA	1
Four-Wing Saltbush	
U:Annual Spp	1
U:Exotic Forbs	2
Greasewood	
U:Annual Spp	1
U:Exotic Forbs	2
U:SA	1
Juniper Woodland	
U:Annual Spp	1
U:Exotic Forbs	2
U:Tree Ann Spp	1
Low Sagebrush	
U:Annual Spp	1
U:Depleted	1

Ecological System	Undesirability Level
Aspen Woodland	
U:ASP->MSS	2
U:Depleted	1
Aspen-Mixed Conifer	
U:ASM->SF	2
Basin Wildrye-bottomland	
U:Annual Spp	1
U:Depleted	1
U:Exotic Forbs	2
Basin Wildrye-montane	
U:Annual Spp	1
U:Depleted	1
U:Exotic Forbs	2
Big Sagebrush-semidesert	
U:Annual Spp	1
U:Depleted	1
U:Exotic Forbs	2
U:SA-Closed	1
U:SA-Dense	1
Big Sagebrush-upland no trees	
U:Annual Spp	1
U:Depleted	1
U:Exotic Forbs	2
U:Exotic Forbs	2
U:SA	1
Lower Montane-Valley Grassland	
U:ASPG	1
U:Bare Ground	1
U:Depleted	1
U:Exotic Forb-ARCA	2
U:Exotic Forbs	2
U:SA	1
U:SE-Early	1
U:SE-Late	1
Mixed Salt Desert	
U:Annual Spp	1
U:Exotic Forbs	2
U:SA	1
Moist Floodplain	
U:Annual Spp	1
U:Desertified	1
U:Exotic Forb&Tree	2
U:Incised-EFT	2
U:SAP	1
Montane Riparian	
U:Annual Spp	1
U:Desertified	1
U:Exotic Forb&Tree	2
U:Incised-EFT	2
U:Inset-EFT	2
U:Inset-HU	1
U:Inset-SFE	1
U:Pasture	1
U:SAP	1
Montane Sagebrush Steppe	
U:Annual Spp	1
U:Depleted	1

Ecological System	Undesirability Level
Aspen Woodland	
U:ASP->MSS	2
U:Depleted	1
Aspen-Mixed Conifer	
U:ASM->SF	2
Basin Wildrye-bottomland	
U:Annual Spp	1
U:Depleted	1
U:Exotic Forbs	2
Basin Wildrye-montane	
U:Annual Spp	1
U:Depleted	1
U:Exotic Forbs	2
Big Sagebrush-semidesert	
U:Annual Spp	1
U:Depleted	1
U:Exotic Forbs	2
U:SA-Closed	1
U:SA-Dense	1
Big Sagebrush-upland no trees	
U:Annual Spp	1
U:Depleted	1
U:Exotic Forbs	2
U:Exotic Forbs	2
U:SA-Closed	1
U:SA-Dense	1
U:SAP-Closed	1
Montane Sagebrush Steppe-Subalpine	
U:Annual Spp	1
U:ASPG	0
U:Depleted	1
U:Exotic Forbs	2
U:TEA	1
Mountain Shrub	
U:Depleted	1
U:SAP	1
U:TEA	1
Owyhee River Riparian	
U:Annual Spp	1
U:Desertified	1
U:Exotic Forb&Tree	2
U:Incised-EFT	2
U:Inset-A	1
U:Inset-B	1
U:Inset-EFT	2
U:Inset-HU	1
U:Inset-SFE	1
U:SAP	1
Saline Meadow	
U:Annual Spp	1
U:Exotic Forbs	1
Wet Meadow-bottomland	
U:Annual Spp	1
U:Desertified	1
U:Exotic Forbs	2
U:Hummocked	1
U:Incised-EFT	2

Ecological System	Undesirability Level
Aspen Woodland	
U:ASP->MSS	2
U:Depleted	1
Aspen-Mixed Conifer	
U:ASM->SF	2
Basin Wildrye-bottomland	
U:Annual Spp	1
U:Depleted	1
U:Exotic Forbs	2
Basin Wildrye-montane	
U:Annual Spp	1
U:Depleted	1
U:Exotic Forbs	2
Big Sagebrush-semidesert	
U:Annual Spp	1
U:Depleted	1
U:Exotic Forbs	2
U:SA-Closed	1
U:SA-Dense	1
Big Sagebrush-upland no trees	
U:Annual Spp	1
U:Depleted	1
U:Exotic Forbs	2
U:SA	1
U:Shrb-Frb Encr	1
Wet Meadow-Montane	
U:Annual Spp	1
U:Desertified	1
U:Exotic Forbs	2
U:Hummocked	1
U:Incised-EFT	2
U:Pasture	1
U:SAP	1
U:Shrb-Frb Encr	1
U:Unpalat. Forb	1
Wetland	
U:Exotic Forb&Tree	2
U:Hummocked	1

Allowable Thresholds of Certain Uncharacteristic Classes

Some uncharacteristic classes have been expressly created by managers toward the meeting of management objectives. Classes of this type do not represent significant ecological degradation (e.g. severe soil loss) or high levels of public-safety hazard (e.g. copious fuel buildups). Moreover, they often benefit wildlife. Classic examples of such classes are seedings with non-native introduced species such as crested wheatgrass, where a complement of native shrubs, forbs and grasses is still present. These classes are acceptable or “allowable” in moderation – i.e., in amounts up to an agreed-upon threshold for each one. Allowable classes included irrigated pastures in wetter systems, native species seedings, and seeding containing in whole or part introduced species (e.g., crested wheatgrass and forage kochia). Barrick managers and experts defined the threshold of allowable uncharacteristic classes at 10% for

non-native seeded classes within each ecological system. Devotion of scarce management/restoration funds to “fixing” sub-threshold amounts of these allowable (but still uncharacteristic) classes has minimal priority – far lower than projects that focus on treating highly undesirable vegetation classes.

The identification of these harmless or benign uncharacteristic classes is relatively new to the LCF™ process. They are formally labeled by “Threshold Percent” in the ST-Sim Ecological Departure menu and could be called Allowable Uncharacteristic Classes (Table A7-3). Their presence contributes to the new integrated measure of condition known as unified ecological departure, described in the following section.

Table A7- 1. Percent threshold of class area per ecological system below which no ecological departure accumulates and above which ecological departure accrues normally. Among seeded classes, the total threshold of 10% is distributed following the same distribution as in the NRV of reference classes.

Ecological System/Class	Threshold Percent
Basin Wildrye-bottomland	
U:Pasture	1
U:SDI	10
U:Seeded Native	10
Basin Wildrye-montane	
U:Pasture	50
U:Seeded Native	30
Big Sagebrush-semidesert	
U:SDI-A	2.9
U:SDI-B	4.5
U:SDI-C	2.5
U:SDI-D	0.1
Big Sagebrush-upland no trees	
U:SDI-A	3.1
U:SDI-B	4.4
U:SDI-C	2.4
U:SDI-D	0.1
Big Sagebrush-upland+trees	
U:SDI-A	3
U:SDI-B	4.6
U:SDI-C	2.3
U:SDI-D	0.1
Four-Wing Saltbush	
U:Seeded Native	10
Greasewood	
U:Pasture	2
U:SDI	10
Low Sagebrush	
U:SDI-A	1
U:SDI-B	3.7
U:SDI-C	5.3
Mixed Salt Desert	

U:SDI	10
U:Seeded Native	10
Montane Sagebrush Steppe	
U:SDI-A	4.4
U:SDI-B	2.3
U:SDI-C	0.2
Wet Meadow-Montane	
U:Pasture	4

Unified Ecological Departure

Unified ecological departure gives a more realistic accounting of ecological condition or health than traditional ecological departure as it incorporates ecological departure, high risk vegetation classes, and threshold percentage of allowable classes. Importantly, the concept of UED also solves a double-counting problem where the same class was counted twice in ED and again under HRVC when incorporated in the calculation of Return On Investment measure for ecological systems.

Unified Ecological Departure for Custodial and Final scenarios, with (Table A7-4) and without (Table A7-5) fire, at year 0 and year 35 are presented below. As management actions did not attempt to lower UED, little change is seen between Custodial and Final scenarios. Systems with very small areas of occurrence, such as wetlands, are not reliably predicted by UED.

Table A7-4. UED for Custodial and Final scenarios with fire at year 0 and year 35 for the Bank Study Area.

Ecological System	Custodial+Fire		Final+Fire	
	Year 0	Year 35	Year 0	Year 35
Agriculture	50	50	50	50
Aspen Woodland	33	43	33	41
Badland	28	28	28	28
Barren-Rock-Mud	50	50	50	50
Basin Wildrye-bottomland	72	94	72	84
Basin Wildrye-montane	100	100	100	100
Big Sagebrush-upland+trees	100	100	100	100
Black Sagebrush	97	93	97	88
Curl-leaf Mountain Mahogany	41	46	41	46
Desert Wash	93	74	93	73
Four-Wing Saltbush	100	100	100	100
Greasewood	16	30	16	26
Limber Pine Woodland	86	63	86	68
Low Sagebrush	63	74	63	72
Mine-Inactive	50	50	50	50
Mixed Salt Desert	100	100	100	100
Moist Floodplain	65	36	65	36
Montane Riparian	85	96	85	86
Montane Sagebrush Steppe-Subalpine	42	36	42	36
Montane Sagebrush Steppe-Upland	95	100	95	93
Mountain Shrub	71	100	71	100
Pinyon-Juniper Woodland	34	31	34	31
Saline Meadow	58	91	58	91
Subalpine-Upper Montane Grassland	41	70	41	70
Water	50	50	50	50
Wet Meadow-Montane	62	75	62	59
Wetland	2	17	2	51
Winterfat	100	100	100	100

Table A7-5. UED for Custodial and Final scenarios with fire at year 0 and year 35.

Ecological System	Custodial+Fire		Final+Fire	
	Year 0	Year 35	Year 0	Year 35
Agriculture	50	50	50	50
Aspen Woodland	33	38	33	41
Badland	28	28	28	28
Barren-Rock-Mud	50	50	50	50
Basin Wildrye-bottomland	72	87	72	83
Basin Wildrye-montane	100	100	100	100
Big Sagebrush-upland+trees	100	100	100	100
Black Sagebrush	97	85	97	84
Curl-leaf Mountain Mahogany	41	58	41	57
Desert Wash	93	73	93	72
Four-Wing Saltbush	100	100	100	100
Greasewood	16	31	16	26
Limber Pine Woodland	86	62	86	62
Low Sagebrush	63	71	63	72
Mine-Inactive	50	50	50	50
Mixed Salt Desert	100	100	100	100
Moist Floodplain	65	34	65	34
Montane Riparian	85	99	85	91
Montane Sagebrush Steppe-Subalpine	42	29	42	32
Montane Sagebrush Steppe-Upland	95	92	95	92
Mountain Shrub	71	100	71	100
Pinyon-Juniper Woodland	34	27	34	27
Saline Meadow	58	95	58	92
Subalpine-Upper Montane Grassland	41	70	41	70
Water	50	50	50	50
Wet Meadow-Montane	62	75	62	59
Wetland	2	36	2	46
Winterfat	100	100	100	100

APPENDIX 8: Greater Sage-Grouse Habitat Suitability

Data were collected on habitats and Greater sage-grouse (sage-grouse) demography as part of a long-term research program on sage-grouse ecology from 2003-2012, in Eureka County, Nevada (Falcon-to-Gondor study area; see Gibson et al. 2013). We used covariates that were identified as important from that field project to build spatial models of four demographic parameters (i.e. life history stages): nest site selection (NSS), nest success (NS), and chick survival (CS), and female (Appendix 8 Tables 1 and 2; Kane et al. *in review*). These parameters were used to model the per capita population growth rate (λ) as a function of the spatial variation in sage-grouse demographic parameters to predict contributions of specific habitat characteristics to regional population dynamics. This process, coupled with the ST-Sim results, allows for spatially explicit interpretation of how management actions impact sage-grouse demography on the current landscape and into the future.

Indirect impacts from infrastructure (e.g. power lines and roads) was modeled as a post-hoc analysis for two of the vital rates, NSS and NS (see below for details). Impacts from noise production from the proposed mine expansion was for not considered in the habitat suitability for several reasons. Increased anthropogenic noise has been shown to negatively impact sage-grouse (Holloran 2005, Blickey et al. 2012) First, a report prepared by Environmental Resource Management for Barrick modeled production of noise due to proposed activities in the Proposed Plan of Operation Study Area. This analysis indicated that, due to topography and existing noise, proposed actions are unlikely to increase noise above 10 dBA currently ambient levels (10 dBA is the recommended as threshold for negative impact in Patricelli et al. 2013 for sage-grouse). Secondly, while negative impacts of noise on lekking behavior is well documented (Holloran 2005, Blickey et al. 2012), to our knowledge no data exist on the impact of noise to other aspects of sage-grouse life history.

In order to build the spatial models, rasters for environmental variables were gathered and analyzed in the software R (R Core Team, 2014). All rasters were at a 60 x 60 m resolution. Rasters from ST-Sim that included both ecological system and vegetation class were imported. Elevation and slope were obtained from the USGS National Elevation Dataset Digital Elevation Model (i.e. DEM). Lek locations were made available by the Nevada Department of Wildlife (NDOW). All leks labeled as “Active” or “Pending” within 15 km of either the Bank Study Area or the Proposed Plan of Operation Study Area were considered. All rasters were standardized to obtain a “standard normal” raster with mean 0 and a standard deviation 1, unless otherwise noted. Rasters were standardized as a way of transforming the data to comparable scales and also to equalize the range and data variability. For calculation of the four demographic parameters the following general form of logistic regression equation was used (Hosmer and Lemeshow 1989):

$$S = \frac{e^{(\beta_0 + \beta_1 X_1 + \beta_2 X_2 + \dots + \beta_n X_n)}}{1 + e^{(\beta_0 + \beta_1 X_1 + \beta_2 X_2 + \dots + \beta_n X_n)}} \quad (\text{Eq. A8-1})$$

where β_0 is the model intercept, β_i are the logistic regression coefficients (Appendix 8 Table 4), and X_i are the measured covariates.

1. Nest Site Selection (NSS)

Nest locations were not available for either the Bank Study Area or Plan of Operation Areas. So every pixel in the study region was considered as a potential nest point. Since nesting locations and associated vegetation do not occur at roads, roads were excluded as nesting habitat. Distance to lek was previously found to have a negative influence on NSS (Gibson et al. 2015). It is calculated as the distance from every pixel in the study region to the nearest lek. Sage-grouse are dependent on sagebrush and other native shrubs for nesting (Braun et al. 1977, Connelly et al. 2004); the amount of sagebrush present around a nest within a 1000m radius circle was calculated. This variable was the proportion of pixels within the moving window designated as nesting habitat. Appendix 8 Table 1 shows the ecological systems and vegetation class codes classified as nesting habitat. Additionally, elevation and slope were included in the NSS calculation. It has been previously shown that sage-grouse prefer to use habitats at moderate slopes and elevations (Gibson et al. 2015):

$$NSS = (1 - (1 / (1 + e^{(\beta_0 + (\beta_{NSS1} * elev.) + (\beta_{NSS2} * slope) + (\beta_{NSS3} * dist. \text{ to lek}) + (\beta_{NSS4} * \text{ amount of sagebrush} + (\beta_{NSS5} * slope * elev.) + (\beta_{NSS6} * dist. \text{ to lek} * \text{ amount of sagebrush})))))) \tag{Eq. A8-2}$$

Appendix 8 Table 1. State and associated classes within those states that were categorized as nesting habitat. Italics indicate ecological systems and classes that were only considered available habitat above 6,890 ft. (2,100m).

Ecological System	Vegetation Class	Ecological System	Vegetation Class	
Big Sagebrush-semidesert	2-Mid:Open	Black Sagebrush	Mid-open	
	3-Late:Closed		Late-closed	
	4-Late:Dense		U:Depleted	
	U:Depleted		U:SA	
	U:SA-Closed		U:SAP	
	U:SA-Dense		U:SDI-B	
	U:SAP-Closed		U:SDI-C	
	U:SAP-Dense		U:SI-B+AS	
	U:SDI-B		U:SI-C+AS	
	U:SDI-C			
	U:SDI-D		Juniper Woodland	U:SAP
	U:SI-B+AS		Low Sagebrush	3-Late:Closed
	U:SI-C+AS			U:Depleted
	U:SI-D+AS			U:SA
	U:SAP			
Big Sagebrush-upland no trees	2-Mid:Open		U:SDI-B	
	3-Late:Closed		U:SDI-C	
	4-Late:Dense		U:SI-B+AS	
	U:Depleted		U:SI-C+AS	
	U:SA-Closed	Low Sagebrush Steppe	3-Late:Closed	
	U:SA-Dense		U:Depleted	
U:SAP-Closed	Moist Floodplain	U:Desertified		

	U:SAP-Dense		U:SAP
	U:SDI-B	Montane Riparian	U:Desertified
	U:SDI-C		U:SAP
	U:SDI-D	Montane Sagebrush Steppe	2-Mid:Open
	U:SI-B+AS		3-Late:Closed
	U:SI-C+AS		4-Late:Dense
	U:SI-D+AS		U:Depleted
Big Sagebrush-upland+trees	2-Mid:Open		U:SA-Closed
	3-Late:Closed		U:SA-Dense
	4-Late:Dense		U:SAP-Closed
	5-Late:Open		U:SAP-Dense
	U:Depleted		U:SDI-B
	U:SA-Closed		U:SDI-C
	U:SA-Dense		U:SDI-D
	U:SAP-Closed		U:SI-B+AS
	U:SAP-Dense		U:SI-C+AS
	U:SDI-B		U:SI-D+AS
	U:SDI-C	Montane Sagebrush Steppe-Subalpine	2-Mid:Open
	U:SDI-D		3-Late:Closed
	U:SDI-E		4-Late:Dense
	U:SI-B+AS		U:Depleted
	U:SI-C+AS		U:SAP-Closed
	U:SI-D+AS		U:SAP-Dense
	U:SI-E+AS	Mountain Shrub	2-Mid:Open
			U:Depleted
			U:SAP
	Owyhee River Riparian	U:SAP	

2. Nest success (NS)

Nest success is derived from daily nest survival and the exposure time of the nest to predation. To calculate the probability of daily nest survival, the proportion of grass-dominated vegetation or grasslands classes around each pixel within a 2000m radius was measured. Grass-dominated classes include those dominated by non-native annuals, non-native seeded species (e.g. crested wheatgrass (*Agropyron cristatum*)), and native grass species, excluding Basin Wildrye systems (*Leymus cinereus*). Fire was previously identified as having a negative association with NS as burned sites tend to convert to non-native annual grasslands (e.g. cheatgrass (*Bromus tectorum*)) following wildfire (Blomberg et al. 2012). Additionally, non-native species seedings, forage kochia (*Kochia prostrata*), and/or early seral native grasses appear to have negative impacts on NS (J. Sedinger, pers. comm.). Daily nest survival is also influenced by the cover of non-sagebrush shrub species at a nest site. Greater shrub cover is associated with enhanced predation protection for pre-nesting females and supply a relatively high protein food for chicks immediately after hatching. Estimates of non-sagebrush shrub cover for the two areas were

Appendix 8 Table 2. Variables and beta coefficients used calculate the infrastructure effect at the TS-Horseshoe Ranch. The infrastructure buffer was added to the unadjusted Nest-Site Selection and Nest Success.

Model	Variable	Beta coefficient
Nest Site Selection	Intercept	-2.01765
	Dist. to infrastructure	0.3453
	Dist. to infrastructure ²	-0.18176
Nest Success	Intercept	3.0928324
	Dist. to infrastructure	0.1405036
	Dist. to infrastructure ²	-0.1195951

extrapolated from field data from Eureka Co. A statistical relationship was found between sagebrush cover and total non-sagebrush cover. To calculate the non-sagebrush shrub cover, the low range of sagebrush for nesting habitat was multiplied by a constant, approximately 0.1976. These variables, proportion of grasslands and non-sagebrush shrub cover, were used in a logistic regression to estimate daily nest survival. Nest success was then estimated by using the exposure period for sage- grouse (9 egg laying days + 28 incubation days = 37 days exposed) as an exponent of daily nest survival. Finally, NS is influenced by factors such as visitation and overall nest quality. Gibson et al. 2015 found that observer-related abandonment introduced a negative bias (0.068) into estimates of overall NS by reducing the average timing of nest fate and thereby lowering daily nest survival. This bias was added to daily nest survival model:

$$\text{Daily nest survival} = \frac{1}{1 + e^{(\beta_{NS0}) + (\beta_{NS1} * \text{amount of grasslands}) + (\beta_{NS2} * \text{non-sagebrush shrub cover})}} \quad (\text{Eq. A8-3})$$

$$NS_1 = \text{daily nest survival}^{37} + 0.068 \quad (\text{Eq. A8-4})$$

In many instances females whose nest fails (likely due to predation) will initial a second nest attempt. Data from the Eureka Co. dataset suggest the re-nesting propensity is 85%. In order to account for re-nesting the following equation is used to correct daily nest survival:

$$NS = NS_1 + (1 - NS_1) * (\text{re-nesting probability}) * NS_1 \quad (\text{Eq. A8-5})$$

3. Infrastructure Impacts (I)

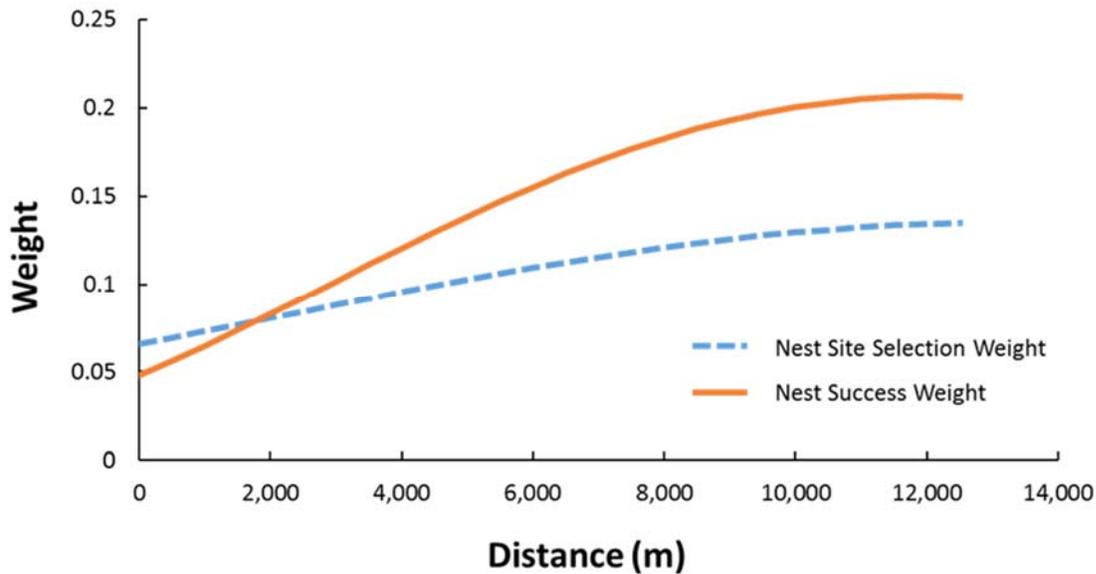
In order to assess impacts from infrastructure (e.g. to busy roads, transmission lines, and buildings), we used empirical relationships that were derived from the Eureka Co. dataset. Research from the Sedinger lab found that the presence of the Falcon-to-Gondor Transmission Line impacted two reproductive demographic rates: NSS and NS, generally reflecting the impact of increased perch availability for corvids and raptors (Gibson et al. 2013). Additionally, they found that the impact differed between the two demographic parameters, with the effect being more mild for NS (Appendix 8 Figure 1)

The process of calculating the effect of infrastructure, involved the calculation of the unweighted demographic rate raster, calculation of the distance from infrastructure weight,

and the application of the weight to the raw raster. Once the unweighted NSS and NS were estimated, distance from each pixel to all infrastructure was measured and then standardized using the mean and standard deviation from the Eureka Co. dataset. Next, the distance weight was calculated using same general equation for both NSS and NS, though intercepts and beta coefficients varied):

$$I = (1 - (1 / (1 + e^{(\beta_0 + (\beta_1 * \text{dist. to infrastructure}) + (\beta_2 * \text{dist. to infrastructure}^2))}))) \quad (\text{Eq. A8-6})$$

Once calculated, the infrastructure impact weight was added to respective vital rate. Finally, vital rates were rescaled so that NSS and NS values were between 0 and 1. In effect, pixels closer to infrastructure are less valuable than those further away.



Appendix 8 Figure 1. The relationship between distance from infrastructure and estimated weight, which was applied to Nest Site Selection and Nest Success, respectively. Infrastructure included power lines, transmission lines, high use roads, and structures which may act as perches for corvids and/or raptors.

4. Chick Survival (CS)

Daily chick survival was calculated as a function of daily distance moved between nests and late- brood habitat (LBH). All pixels were reclassified based on their availability as LBH (Appendix 8 Table 3). In wet meadows, the presence of exotic forb classes may impede the ability of sage-grouse to locate and use otherwise good LBH. A 180m moving window was applied to the wet meadows. If more than two of the surrounding pixels was an exotic forb or annual grass class, then the pixel was designated as non-LBH regardless of the pixel vegetation. The distance was measured between each pixel to the closest pixel of LBH. From the Eureka Co. data, it takes roughly 6 weeks (42 days) for chicks to travel from a nest to LBH. Chick survival varied among weeks so the probabilities of chicks surviving was estimated for each week based on daily survival for that week and distance moved. This variable was then divided by 35 (representing 35 days of exposure). Finally, distance moved was standardized using the

average and standard deviation of distance moved from the Eureka Co. data. The final chick survival was the sum of the weekly survival rates:

$$\text{Weekly survival (WS)} = (1 - (1 / (1 + e^{(\beta_{CS0} + (\beta_{CS1} * \text{daily dist.}) + \beta_{CS2})))) \quad (\text{Eq. A8-7})$$

where β_0 is the intercept, β_{CS1} is the coefficient for average daily distances moved by a brood, and β_{CS2} is the coefficient for each week.

$$CS = WS_1 * WS_2 * WS_3 * WS_4 * WS_5 * WS_6 \quad (\text{Eq. A8-8})$$

Appendix 8 Table 3. State and associated classes within those states that were categorized as nesting habitat. Italics indicate ecological systems and classes that were only considered available habitat above 6,000 ft. (1,829m).

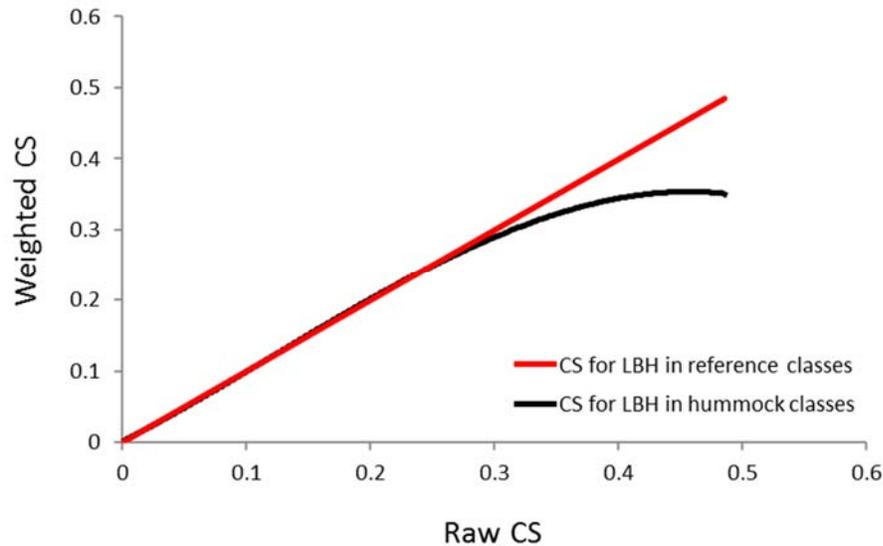
Ecological System	Vegetation Class	Ecological System	Vegetation Class
Basin Wildrye-bottomland	U:Pasture	Montane Sagebrush Steppe	1-Early:All
Basin Wildrye-montane	U:Pasture		2-Mid:Open
<i>Low Sagebrush</i>	<i>1-Early:All</i>		U:ASPG
	<i>2-Mid:Open</i>		U:SDI-A
	<i>3-Late:Closed</i>		U:SDI-B
	U:ASPG		U:Seeded Native
	U:SDI-A		U:SI-A+AS
	U:SDI-B		U:SI-B+AS
	U:SDI-C		
	U:Seeded Native		
	U:SI-A+AS		
	U:SI-B+AS		
U:SI-C+AS			
<i>Low Sagebrush Steppe</i>	<i>1-Early:All</i>	Montane Sagebrush Steppe-Subalpine	1-Early:All
	<i>2-Mid:Open</i>		2-Mid:Open
	<i>3-Late:Closed</i>		U:ASPG
<i>Lower Montane-Valley Grassland</i>	1-Early:All	<i>Mountain Shrub</i>	<i>1-Early:All</i>
	2-Mid:Open		<i>2-Mid:Open</i>
	4-Late:Closed	Owyhee River Riparian	1-Early:Willow
	U:ASPG		U:Early Shrub
	U:Increaser Grass		U:Pasture
Moist Floodplain	1-Early:Cottonwood	Subalpine-Upper Montane Grassland	U:SDI
			U:SDI+AS
			1-Early:All
			2-Mid:Closed
			3-Late:Open
			U:Unpalat. Shrub

	1-Early:Willow	Wet Meadow-Montane	1-Early:Open
	2-Mid:Willow		2-Mid:Closed
	3-Late:Willow		3-Late:Open
	U:Pasture		U:Hummocked
Montane Riparian	1-Early:Cottonwood		U:Pasture
	1-Early:Willow	Wallow	
	U:Pasture		
	U:SDI		
Montane Riparian	U:SDI+AS		

In the current CS equation, only distance from a pixel to the nearest LBH pixel is measured. However, not all LBH may equally contribute to CS. This is most apparent when comparing hummocked classes with reference classes in wet meadow systems. In order to account for the difference between hummocked and other LBH, two separate distance were measured: distance to the nearest hummocked class and distance to the nearest reference LBH classes. For pixels nearer to hummocked classes, CS was recalculated using the previously described methods. Then a weight was applied to the new CS, which represents a 30% reduction of CS for pixels with the highest unweighted CS (Appendix 8 Figure 2). The equation for the weight is:

$$CS_w = -3.3761 * CS_{hum}^3 + 1.2479 * CS_{hum}^2 + 0.887 * CS_{hum} + 0.0011 \quad (\text{Eq. A8-9})$$

Where CS_w is weighted CS and CS_{hum} is the unweighted CS for areas closest to hummocked classes. Once the original CS raster and weighted CS raster were then merged so that weighted CS values were retained in areas closest to hummocked classes.



Appendix 8 Figure 2. The relationship between raw chick survival (CS) and weighted CS. Weighted CS was applied to pixels that were nearest hummocked classes compared to other late-brood habitat

5. Female Survival (FS)

There is a trade-off between the reproductive success of an individual female and that female's survival (i.e. females who successfully raise a brood have a lower annual survival rate; Blomberg et al. 2013). In order to calculate female survival, first the probability that a female will successfully hatch a nest and that nest will survive is calculated (termed nest survival (N_S) here. N_S is a function of nest site selection and nest success:

$$N_S = NSS * \text{re nesting propensity} * NS + (1 - NS) + NSS * 0.385 * NS \quad (\text{Eq. A8-11})$$

We then calculated the probability that at least one chick hatches and survives through late brood-rearing (BS). BS is a function of N_S , CS, mean clutch size (females only) across all age classes (3.6), and mean hatchability of the clutch (0.92). Estimates of hatchability of clutch comes from Taylor et al. (2012). BS is calculated as:

$$BS = NS * (1 - (1 - CS)^{\text{mean clutch size} * \text{mean hatchability of the clutch}}) \quad (\text{Eq. A8-12})$$

Both BS and N_S are standardized along with spring, summer, and fall survival, and then used to calculate female survival:

$$FS = \text{Spring Survival} * \left(1 - \frac{1}{1 + e^{3.009277 + \beta \text{Summer Survival} + \beta N_S * NS}}\right)^2 * \left(1 - \frac{1}{1 + e^{3.009277 + \beta \text{Fall Survival} + \beta BS * BS}}\right)^3 * 0.99 \quad (\text{Eq. A8-13})$$

Spring survival represented monthly nesting survival rates in April and May (0.93), and winter survival represented monthly winter survival during November-March (0.99) (Blomberg et al.

2013b). β Summer Survival and β Fall Survival are season-specific effects for summer and fall, respectively. β NS was the negative effect of successfully hatching a nest on summer survival, and β BS was the negative effect of successfully raising a brood on fall survival.

6. Per-Capita Population Growth Rate (λ)

We used the life table response experiment (LTRE) (Caswell 1989, Cooch et al. 2001) as a tool to understand the contribution of specific seasonal habitats to regional population dynamics of the sage-grouse. LTRE is a retrospective analysis which expresses λ as a function of observed variation in the demographic parameters. We use this approach to understand how much of the change in population growth rate can be attributed to the changes in four demographic parameters. Additionally, this allows us to estimate λ at each pixel so that spatial and temporal patterns of change can be identified.

First, fecundity was calculated for adults (F_1) and juveniles (F_2). Due to a lack of data, fecundity was assumed to be the same for adults and juveniles. F_i is the value of nest site selection, nest success, chick survival, and female survival at a given pixel multiplied by the half of the mean clutch size (3.6) and the mean post-fledging survival (0.528):

$$F_i = NSS * NS * CS * (\text{mean clutch size} / 2) * \text{post-fledging survival} \quad (\text{Eq. A8-14})$$

Once fecundity is calculated, a matrix is created with mean female survival, S_1 and S_2 , respectively (though as with fecundity a single survival rate is used for juveniles and adults). The most positive eigenvalue from these matrix products is the per-capita growth. This matrix is then used to calculate the λ at each pixel. Finally, the difference between lambda at current conditions and the average λ from the Eureka Co. data was added to the raw λ raster (for the Bank Study Area the value was 0.191 and for the Plan of Operation Study Area the value was 0.175) This is done to normalize the results to the Eureka Co. dataset.

Appendix 8 Table 5. Variables and beta coefficients used for the three life history stages used to estimate lambda. Note that Nest Success is estimated from the Daily Nest Survival. See Gibson et al. 2015 for description of how equations were derived.

Model	Variable	Beta coefficient
Nest Site Selection	Intercept	-2.34506
	Elevation	0.59617
	Slope	0.50795
	Dist. to Lek	-0.64372
	Amount of Sagebrush	1.43117
	Slope*Elevation	-0.331
	Dist. to Lek*Amount of Sagebrush	-0.62407
Daily Nest Survival	Intercept	2.9816303

	Non-sagebrush shrub cover	0.2958471
	Amount of grasslands	-0.1170051
Chick Survival	Intercept	1.6472797
	Dist. moved	-1.3712585
	Week 1	-1.3781732
	Week 2	-0.6970342
	Week 3	0.0549484
	Week 4	-0.0973284
	Week 5	0.1817422
	Week 6	1.647279

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APPENDIX 9: Assessment of Loss of Secondary Productivity of Hummocked Wet Meadows

The goal of this assessment was to quantify the loss of primary productivity between hummocked and reference classes of wet meadows in the study area using the Normalized Difference Vegetation Index (NDVI). A greater amount of mineral soil and mud in hummocked meadows would correspond to the loss of vegetation, which we hypothesized would result in loss of production of invertebrates that GSG chicks depend on during brood-rearing (Gregg and Crawford 2009, Blomberg et al. 2013). Our initial estimate was that hummocking resulted in the average loss of 30% of vegetation based on observations made in Google Earth.

NDVI is a standard metric to assess vegetation productivity. NDVI is calculated using the following formula:

$$\text{NDVI} = \text{NIR} - \text{Red} / \text{NIR} + \text{Red}$$

The "raw" data range for this calculation is between -1 to 1. Using an illustrative example, pretend the imagery data range is between 1 and 20. Mud would have low reflectance in the NIR and Red (1 and 3 respectively, for example). This will result in a NDVI of -0.500. Dry bare ground would be highly reflective in both the NIR and Red (18 and 16 respectively, for example). This would result in an NDVI of 0.0588. Healthy vegetation would be highly reflective in the NIR and relatively low reflecting in the Red (16 and 6 respectively, for example). This would result in an NDVI of 0.4545. Very lush, healthy vegetation (riparian shrubs, alfalfa fields, lush wet meadows that are not too wet - any water greatly impacts/reduces the NIR) would be very high in the NIR and quite low in the Red (19 and 3 respectively, for example). This would result in an NDVI of 0.7273. In summary:

Mud: -0.5000

Dry Bare Ground: 0.0588

Healthy Veg: 0.4545

Lush Veg: 0.7273

Spatial Solutions Inc. was tasked to estimate plant productivity based the NDVI for all wet meadows from the original imagery in the Bank and Plan of Operation Study Areas. We used the average difference between known reference and hummocked vegetation classes to estimate loss of productivity.

Spatial Solutions used the following process:

- a. Isolated montane wet meadow classes identified by TNC as important for this analysis.
- b. Using the 1.5m PanSharpened SPOT6 imagery, calculate NDVI individually for each meadow.
- c. Worked with TNC to assess results of the NDVI to assess how results will be level-sliced to indicate the bare-ground dominated montane wet meadow sites versus those with appreciable vegetation.

- d. Used the level-slice assessment to remap the NDVI results to specific montane wet meadow classes with new discriminators indicating bare-ground dominated and vegetation dominated montane wet meadows (i.e., establish correlation to discriminators). Original succession labels can be maintained and supplemented with new bare-ground dominated labels.
- e. Some data clean-up was required after analysis. The montane wet meadow polygons that had a "0" value in the indices statistics are all polygons that have 0 pixels. This was likely due to the raster to vector conversion process. Effectively, these are the scattered individual pixels that are isolated from adjacent montane wet meadow classes of other labels or just stray pixels that are surrounded by non- montane wet meadow classes. They should be ignored for the purposes of the study. Statistically they would be of little or no value based on their single pixel composition and how that relates to a reliable spectral signature from which to extract any meaningful index value.
- f. The original shape files of NDVI were transformed from integer values to floating point NDVI statistics (i.e. not rescaled to 16-bit data) for a more tractable analysis.

TNC performed one-way ANOVA using NDVI as the dependent variable and classes A, B, C, U-A HU and U-B HU as independent categorical variables and estimated the size of the difference using contrasts (= planned comparisons) between (1) A and B vs. U-A HU and U-B HU; (2) A vs. U-A HU; and (3) B vs. U-B HU. TNC also performed the ANOVA with the Coefficient of variation (STD/mean of polygon) as a covariate to factor out variation, but it made no difference.

Results:

- a. Difference effect (i.e., between the estimated means) of reference classes A (early-succession) and B (mid-succession) vs. U-A HU (early-succession hummocked) and U-B HU (mid-succession hummocked) = 0.055; therefore, $0.055 / (\text{average of A and B}) = 0.055 / .1984 = 0.277$ (very close to the 30% estimated from Google Earth observations).
- b. Difference effect of A vs. A HU = 0.007 (non-significant contrast)
- c. Difference effect of B vs. B HU = 0.0778, so $0.0778 / (\text{average of B}) = 0.0778 / 0.02027 = 0.38$.

TNC examined NDVI (floating point values) values for some known meadows: Shipley 0.68, Lone Tree Spring 0.31 to 0.45, Cherry Springs 0.28 to 0.45 and Indian Creek 0.55. The percent decrease in NDVI is larger than 30% among those examples.

TNC recommended that the value for decreasing CS due to HU be 0.277.

APPENDIX 10: Management Workshop Agendas and Participant Lists

November 2015 Workshop Participants	March 2016 Workshop Participants
Bill Upton	Bob Brock
Bob Brock	Bob Ingersol
Bob Ingersoll	Brian Taylor
Brian Taylor (Cortez)	Doug Groves
Doug Furtado	Gail Ross
Doug Groves	Gary McCuin
Gail Ross	Genevieve Skora
Gary McCuin	Greg Low
Genevieve Skora	Jeff Dickey
Greg Low	Jim Sedinger
Hanes Holmon	John Wilson
Jeff Dickie	Joshua Robbins
Jim Sedinger	Kenneth Wilkinson
John Wilson	Kevin Badik
Josh Robbins	Kim Wolf
Ken Wilkinson	Kristin Kane
Kent Bloomer	Liz Munn
Kevin Badik	Louis Provencher
Kim Wolf	Michael Cameron
Kristin Kane	Mike Podborney
Lindsey Leismeister	Sam Ault
Liz Munn	Sam Cisney
Louis Provencher	Sam Kaster
Melissa Faigeles	Shawn Servoss
Michael Cameron	Steve Foree
Michael Vermeys	Steve Shoen
Mike Podborny	Tanya Anderson
Rich Adams	Todd Erdody
Sam Ault	
Sam Kaster	
Sam Cisney	
Scott Roberts	
Stephanye Cox	
Steve Abele	
Steve Schoen	
Tanya Anderson	
Todd Erdody	
Tyson Gripp	

Sage-grouse Conservation Forecasting Management Workshop

Barrick’s Hay, Dean, and JD Ranches

November 17th, 2015, 8:30 a.m. – November 19th, 2015, noon

Elko, NV

OBJECTIVES

Tuesday	<ul style="list-style-type: none"> • Participants gain basic understanding of Sage-grouse Conservation Forecasting (SCF) – including models, maps and metrics • Review preliminary model run outcomes/ SCF metrics for Current Condition
Wednesday	<ul style="list-style-type: none"> • Review vegetation maps • Review and discuss potential management treatments for all focal systems (includes treatments, ecological effects, failure rates, and costs)
Thursday	<ul style="list-style-type: none"> • Review overall management objectives for Barrick ranches and associated public lands • Discuss opportunities of joint private and public restoration and management

AGENDA

Tuesday, November 17th (Western Folklife Center, 501 Railroad Street)

BREAKFAST: 8:00 – 8:30 am

Morning: 8:30 am – 12:00 pm (includes mid-morning break)

- Welcome, introductions, overview, logistics, etc.
- Review daily outcomes
- The Bank Enabling Agreement and timeline
- Introduction to Landscape Conservation Forecasting
 - Group exercise
 - Benefits to managers; applications
- Sage-grouse Conservation Forecasting (SCF): Maps, models and metrics
 - Spatial modeling
 - Unified ecological departure metric
 - Habitat suitability and functional area metrics

LUNCH: 12:00 – 1:00 pm

Afternoon: 1:00 pm – 4:30 pm (includes mid-afternoon break)

- Discuss other important parameters of SCF

- Public vs. private lands restoration
- Grazing management in the models
- Planning time horizon – 35 years?
- Review Current Condition of Mitigation Lands
 - Vegetation maps overview
 - Unified ecological departure
 - Habitat suitability maps and metrics
- Review daily accomplishments

Wednesday, November 18th (Ruby Hill Room, Barrick Shared Business Center, 905 W. Main Street)

BREAKFAST: 8:00 – 8:30 am

Morning: 8:30 am – 12:00 pm (includes mid-morning break)

- Review daily outcomes
- Review project area vegetation maps: Ecological systems and selected vegetation classes (large maps to be presented at workshop along with GIS display as needed)

LUNCH: 12:00 – 1:00 pm

Afternoon: 1:00 pm – 4:30 pm (includes d-afternoon break)

- Discuss/determine focal ecological systems and vegetation classes for management
- Review potential management treatments and costs for focal ecological systems and vegetation classes
- Discuss potential overarching management objectives (e.g. private/public lands; ROI)
- Review daily accomplishments

Thursday, November 19th (Ruby Hill Room, Barrick Shared Business Center, 905 W. Main Street)

BREAKFAST: 8:00 – 8:30 am

Morning: 8:30 am – noon (includes mid-morning break)

- Review daily outcomes
- Continue discussion of management objectives
- Test selected management treatments and review outcomes using ST-SIM (non-spatial; unified ecological departure – time permitting)
- Next steps
- Next workshop – desired outcomes and potential dates
- Adjourn

**Barrick Gold Company
Sage Grouse Conservation Forecasting Management Workshop #2
March 22-24, 2016**

OBJECTIVES

- Brief review conservation forecasting methodology.
- Review and discuss the key findings from simulations.
- Revise potential management treatments for focal systems to reach management objectives.
- Discuss sequencing of management actions and geographies.
- Provide input for developing final scenario(s).

AGENDA

March 22nd

BREAKFAST: 8:00 – 8:30 am

Morning: 8:30 am – 12:00 pm (includes mid-morning break)

- Welcome, introductions, logistics, ground rules, etc.
- Review of project and accomplishments to date.
- Review of key model assumptions
- Review habitat suitability metrics.

LUNCH: 12:00 – 1:00 pm

Afternoon: 1:00 pm – 4:30 pm (includes mid-afternoon break)

- Begin review of Active Management scenario model results and metrics.

March 23rd

BREAKFAST: 8:00 – 8:30 am

Morning: 8:30 am – 12:00 pm (includes mid-morning break)

- Continue review of Active Management scenario model results and metrics.

LUNCH: 12:00 – 1:00 pm

Afternoon: 1:00 pm – 4:30 pm (includes mid-afternoon break)

- Continue review of Active Management scenario model results and metrics.

March 24th

BREAKFAST: 8:00 – 8:30 am

Morning: 8:30 am – 12 pm (includes mid-morning break)

- Finish review of Active Management scenario model results and metrics.
- Review suggestions created throughout meeting for, revising management treatments, sequencing and geography of treatments, and final scenario(s).
- Look ahead to preparation of the final report and its delivery to Barrick with spatial data and other ancillary materials.
- Wrap up and adjourn.

APPENDIX 11: Barrick Bank Study Area Accuracy Assessment Report
The Nature Conservancy
January 2017

Map Production

The Nature Conservancy (TNC) conducted remote sensing analysis to map the ecological systems and current vegetation classes for the Barrick Bank Study Area (a.k.a., mitigation area). Spatial Solutions, Inc. was contracted by TNC to interpret Spot6 multispectral satellite imagery (1.5m spatial resolution) of the study area which was captured June 8, 2014 for the Bank Study Area and on June 14, 2015 (new imagery), May 30, 2016 (archival imagery), and June 25, 2016 (new imagery) for the Plan of Operations Study Area (a.k.a., Plan of Operations Study Area). The imagery was clipped to the boundary specified by Barrick and was not buffered outward. Properties not owned or managed by Barrick were part of the imagery, but these areas were excluded from field surveys and mapping (i.e. removed from imagery used in the field).

TNC provided descriptions of ecological systems and classes to Spatial Solutions that possibly could be encountered in a study area, which were used to develop an unsupervised vegetation classification for the appropriate study area. The objective of this visit was to visit all unique vegetation systems and retain their spectral signatures and document their vegetation and general site features. TNC and Spatial Solutions conducted an initial field visit to the study area June 26-July 23, 2014, and October 13-18, 2014, to ground truth vegetation systems and classes in the Bank Study Area. The original Plan of Operations Study Area was visited June 23-July 11 and October 19-23, 2015. The expansion areas of Plan of Operations Study Area were field surveyed during June 23-29, 2016. A chartered helicopter was used to interpret vegetation of the Bank Study Area on June 30, July 1, July 21, October 15-19, 2014, and the original service area was interpreted July 2-9, and June 27, 2016 for the expanded Plan of Operations Study Area. Most of the landscape was explored using designated paved and dirt roads with a 4WD vehicle with the contractor collecting signatures through rapid observations. Inaccessible locations were visited via hiking, in addition to the helicopter surveys. The rapid observations allowed +7,800 spectral signatures to be collected for the Bank Study Area and +9,300 observations for the Plan of Operations Study Area in the timeframe described.

The first field visit allowed the contractor to take the large amount of spectral signatures collected and create a draft classification of ecological systems and vegetation classes. This preliminary geospatial raster layer was spot-checked during a second field visit October 13-18, 2014, as well as identify areas which were lacking spectral signatures and collect additional rapid road and hiking observations. Some pre-selected point locations were chosen by the contractor to verify ecological system and classes for a refined final geospatial classification. The final product was delivered March 3, 2015 for the Bank Study Area, and January 18, 2016, for the Plan of Operations Study Area.

The final vegetation ecological system and current class geospatial layers for the Bank Study Area were reviewed by the client and workshop partners in March 2015, and March 2016 for the Plan of Operations Study Area, which were both held in Elko, Nevada.

Accuracy Assessment

Spatial Solutions, Inc. generated a set of stratified random sample points per ecological system based on the 1.5m resolution map. Only 16 ecological systems that were considered pertinent to the life history of Greater Sage grouse were assessed for accuracy (Table 1). A four-step process was used to generate a balanced selection of sample points that didn't favor any one class, while only the ecological systems were sampled in the field. First, all vegetation patches defined by a combination of ecological system and vegetation classes were uniquely mapped (i.e., the patch of that combination was unique, and not the combination). Although this assessment was not at the class level, the combination of system and class was used to reduce variation due the class ecotones within a scenario. Second, only patches of sagebrush systems greater than 5 acres were retained for point placement. Basin Wildrye-montane and -bottomland, saline meadow and montane riparian utilized a 3-acre minimum patch size. For wet meadows, the threshold for retention was 1/2 acre. Third, a high diversity of vegetation classes per ecological system was selected so that no class dominated point selection. Burned areas, which are difficult to classify, were included but minimized to an appropriate level. Fourth, sample point locations were restricted based on being 1.0 km (0.6mile) from known roads and were placed centrally within a vegetation patch.

The Nature Conservancy contracted with the Eastern Nevada Landscape Coalition (ENLC) to visit the generated samples for each landscape (Table 2). ENLC ecologist began work on the study area May 25, 2016, and wrapped up June 29, 2016, and visited 369 point locations out of 551 pre-determined points. Because the ecologist was not able to visit all systems, the following systems were given priority: Big sagebrush semi-desert, big sagebrush shrubland-upland, black sagebrush, low sagebrush, mixed salt desert, montane sagebrush steppe-upland, mountain shrub, and pinyon-juniper woodland. If time allowed, the following systems should be assessed last: basin wildrye-bottomland, basin wildrye-montane, curl-leaf mountain mahogany, greasewood, montane riparian, montane sagebrush steppe subalpine, and saline meadow. ENLC's ecologist used GPS and GIS maps to navigate to selected points and record the dominant vegetation. Photographs documenting the vegetation at each location were taken.

Table 2. Sample points generated and visited per selected ecological systems.

System Code	Ecological System Name	Generated	Visited
1019	Pinyon Juniper Woodland	35	28
1062	Curl-leaf Mountain Mahogany	33	33
1079aa	Low Sagebrush	40	37
1079an	Black Sagebrush	38	26
1080	Big Sagebrush Shrubland-upland with trees	41	30
1080bw	Basin Wildrye-montane	32	19
1080bwb	Basin Wildrye-bottomland	32	8
1080sd	Big Sagebrush-semidesert	36	18
1081	Mixed Salt Desert	36	24
1106	Mountain Shrub	34	29
1126	Montane Sagebrush Steppe-upland	39	36
1126s	Montane Sagebrush Steppe-subalpine	24	19
1145sm	Saline Meadow	37	3
1145wm	Wet Meadow-montane	38	31
1153	Greasewood	35	12
1154	Montane Riparian	21	16
Total		551	369

Table 3. Results and interpretation

Prediction	Reference																User's Accuracy
	PJ	CMM	LS	BS	WS-Up	BW-M	BW-B	WS	MSD	MS	MSS-up	MSS-s	SM	WM	GW	MR	
PJ	27	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	96%
CMM	0	31	1	0	0	0	0	0	0	0	1	0	0	0	0	0	94%
LS	0	0	30	6	0	0	0	1	0	0	0	0	0	0	0	0	81%
BS	1	0	0	21	3	0	0	1	0	0	0	0	0	0	0	0	81%
WS-Up	0	0	0	1	27	0	0	1	1	0	0	0	0	0	0	0	90%
BWM	0	0	0	0	0	17	0	1	0	0	1	0	0	0	0	0	89%
BWB	0	0	0	0	0	0	7	0	0	0	0	0	1	0	0	0	88%
WS	0	0	0	1	0	0	0	17	0	0	0	0	0	0	0	0	94%
MSD	0	0	0	1	0	0	0	1	22	0	0	0	0	0	0	0	92%
MS	0	0	0	0	0	0	0	0	0	21	8	0	0	0	0	0	72%
MSS-up	0	0	0	0	0	0	0	0	0	0	36	0	0	0	0	0	100%
MSS-s	0	0	0	0	0	0	0	0	0	0	0	19	0	0	0	0	100%
SM	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	100%
WM	0	0	0	0	0	1	0	0	0	0	1	0	0	29	0	0	94%
GW	0	0	0	0	0	0	1	0	0	0	0	0	0	0	11	0	92%
MR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	100%
Producer's Accuracy	96%	100%	97%	68%	90%	94%	88%	77%	96%	100%	75%	100%	75%	100%	100%	100%	91%

An R program, Caret, was utilized to derive a confusion matrix (Table 3), and produce accuracy assessment results. Some ecological systems found on the landscape were not visited as they were not deemed central for the purposes of the remote sensing. Overall accuracy was 90.5% (95% CI: 0.87- 0.93, kappa= 90%), which is very good.

The classification of Montane Sagebrush Steppe-upland, Montane Sagebrush Steppe-subalpine, Saline Meadow, and Montane Riparian were ecological systems that had a User’s Accuracy of 100%. User’s accuracy is a metric used to assess whether a pixel on the maps represent the class encountered in the field. The lowest user’s accuracy of 72% was found in Mountain Shrub where it was confused with Montane Sagebrush Steppe-upland. Montane Sagebrush Steppe-upland may have a similar diversity of species, however the key distinction is the percentage of mountain big sagebrush, a true mountain shrub site will have less than 10% of mountain big sagebrush. The next lowest user’s accuracy were Black Sagebrush and Low Sagebrush at 81%. Low Sagebrush was most frequently confused with Black sagebrush, which can happen if the Black Sagebrush is low in stature, and in some places Black and Low Sagebrush can be intermixed making this a reasonable error. Black sagebrush was most often confused with Big Sagebrush Shrubland-upland which is reasonable because they can be intermixed and overlap in elevation. The user’s accuracy of the remaining systems ranged from 88-96%

There were five ecological systems that had 100% producer’s accuracy, which assess how well a system was classified, and these were: Curl-leaf Mountain Mahogany, Mountain Shrub, Montane Sagebrush Steppe-subalpine, Wet Meadow-montane, Greasewood, and Montane Riparian. The lowest producer’s accuracy of 68% was found in Black Sagebrush where it was confused one time each with Pinyon-Juniper Woodland, Big Sagebrush-semidesert, Big Sagebrush Shrubland-upland and Mixed Salt Desert, which are all reasonable classifications. The next lowest producer’s accuracies at 75% was Montane Sagebrush Steppe-upland and Saline Meadow. Montane Sagebrush Steppe-upland was most frequently confused with Mountain Shrub, which is very similar to the user’s accuracy where mountain shrub was most often confused for montane sagebrush steppe-upland. The reasons why mountain shrub was less accurate for montane sagebrush steppe-upland still apply from above. Saline Meadow was less accurate for Basin Wildrye-bottomland one time only because of the low sample size collected (4 samples). It is reasonable that saline meadow could be confused for Basin Wildrye-bottomland as they are found in similar elevations and slope gradients, have identical degraded classes, and the remote sensed data would reflect a lot in the infrared spectrum. The remaining systems producer’s accuracy ranged from 77-97%.

R Script

```
#####
#### Accuracy assessment from Caret package #####
#### https://stat.ethz.ch/pipermail/r-help/2008-September/172537.html #####
#### Note to self: Changed Classified to Predicted, and Interpreted to #####
#### Reference in CSV table #####
#####
library(caret)
```

```
#loads library "caret"

#Sets the working directory for the remainder of the script
#setwd("C:/Users/tanderson/Documents/Barrick/Cort_AccAssessAug16")
setwd("Z:/Projects/Barrick/Accuracy Assessment")
getwd()

##Read in dataset in CSV format of bank study area
MA<- read.csv("BarrickAAData_preppedR_LPRev.csv")
str(MA)

##creates vectors of the interpreted sample locations and the classified imagery sample
locations
pred <- MA$Predicted
ref <- MA$Reference

#levels ensures that we have the same number of classes in the predicted and reference classes
levels(pred)
levels(ref)
#Performs the confusion matrix/accuracy assessment for Barrick Bank Study Area before LP
reviewed photos of errors/conflicts
CM <-confusionMatrix(pred, ref, positive=NULL)
CM
```