

**Biophysical Habitat Units
of the
South Okanagan Study Area**

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ECOREGION UNITS

NOB	Northern Okanogan Basin
NOH	Northern Okanogan Highlands Ecoregion
OKR	Okanogan Range Ecoregion
SOB	Southern Okanogan Basin Ecoregion
SOH	Southern Okanogan Highlands Ecoregion

BIOGEOCLIMATIC UNITS

BGxh1	Okanogan Very Dry Hot Bunchgrass variant
PPxh1	Okanogan Very Dry Hot Ponderosa Pine variant
IDFxh1	Okanogan Very Dry Hot Interior Douglas-fir variant
IDFdk1	Thompson Dry Cool Interior Douglas-fir variant
IDFdm1	Kettle Dry Mild Interior Douglas-fir variant
IDFmw1	Shuswap Moist Warm Interior Douglas-fir variant
MSdm1	Okanogan Dry Mild Montane Spruce variant
MSxk	Very Dry Cool Montane Spruce subzone
ESSFxc	Very Dry Cold Engelmann Spruce - Subalpine Fir subzone

HABITAT CLASSES FOR SOUTH OKANAGAN (those marked with an asterisk (*) are not further described; the rest are fully described)

BGxh1 Okanagan Very Dry Hot Bunchgrass variant

AE	Antelope-brush - evening-primrose southerly aspect, coarse sand
AN	Antelope-brush - needle-and-thread grass coarse-textured soils
ANc	Antelope-brush - needle-and-thread grass coarse-textured soils, cool aspect
ANf	Antelope-brush - needle-and-thread grass coarse-textured soils, fan
ANw	Antelope-brush - needle-and-thread grass coarse-textured soils, warm aspect
ARg	Trembling aspen - Wood's rose moist, gully
ARp	Trembling aspen - Wood's rose moist, floodplain
ASg	Trembling aspen - common snowberry moist, gully
ASp	Trembling aspen - common snowberry moist, floodplain
BA*	Barren
BD	Water birch - red-osier dogwood swamp
BE*	Beach
BS	Paper Birch - common snowberry moist, gully
CA*	Canal
CB	Summer-cypress - bentgrass meadow
CD	Black cottonwood - red-osier dogwood floodplain
CF*	Cultivated field
CLc*	Cliff high, cool aspect
CLw*	Cliff high, warm aspect
CMc*	Cliff moderate, cool aspect
CMw*	Cliff moderate, warm aspect
CO*	Cultivated orchard
CT	Common cattail marsh
CV*	Cultivated vineyard
FL*	Feedlot
GB*	Gravel bar
GC*	Golf Course
GP*	Gravel Pit
HA	Black hawthorn copse
LA*	Large lake
MI*	Mine
OS	Oregon-grape - saskatoon gully
OW	Shallow open water
OWa	Shallow open water, alkaline
PA	Ponderosa pine - antelope-brush coarse-textured soil
PAf	Ponderosa pine - antelope-brush coarse-textured soil, fan
PB	Ponderosa pine - water birch moist fan
PD*	Pasture, dry
PF	Ponderosa Pine - Idaho fescue warm aspect, deep soil
PM*	Pasture, moist
PO*	Pond
PS	Ponderosa pine - selaginella shallow soil
PSc	Ponderosa pine - selaginella shallow soil, cool aspect
PSw	Ponderosa pine - selaginella shallow soil, warm aspect
PW	Ponderosa pine - bluebunch wheatgrass mesic
PWc	Ponderosa pine - bluebunch wheatgrass mesic, cool aspect
PWf	Ponderosa pine - bluebunch wheatgrass mesic, fan
RM	Western redcedar - Douglas maple riparian
RO*	Rock outcrop - lichen
ROc*	Rock outcrop - lichen, cool aspect
ROw*	Rock outcrop - lichen, warm aspect
SB	Silverweed - bulrush meadow
SL*	Sewage lagoon
SN	Big sagebrush - needle-and-thread grass coarse-textured soil
SNf	Big sagebrush - needle-and-thread grass coarse-textured soil, fan
SOc	Saskatoon - mock-orange talus, cool aspect

SOw Saskatoon - mock-orange talus, warm aspect
 SP Common snowberry - pinegrass moist
 SS Big sagebrush - selaginella very shallow soil
 ST Stream (includes seasonal gravel bars)
 SWl Big sagebrush - bluebunch wheatgrass mesic, lacustrine
 SWm Big sagebrush - bluebunch wheatgrass mesic, morainal
 TAc* Talus, cool aspect
 TAw* Talus, warm aspect
 TC* Transportation corridor
 UR* Urban - suburban
 Wbc Bluebunch wheatgrass - Sandberg's bluegrass deep soil, cool aspect
 WBw Bluebunch wheatgrass - Sandberg's bluegrass deep soil, warm aspect
 WJ Bluebunch wheatgrass - junegrass mesic
 WR Woolly sedge - rush marsh
 WSc Bluebunch wheatgrass - selaginella shallow soil, cool aspect
 WSw Bluebunch wheatgrass - selaginella shallow soil, warm aspect
 YS Yellow pine - saskatoon fan

PPxh1 Okanagan Very Dry Hot Ponderosa Pine variant

AN Antelope-brush - needle-and-thread grass coarse-textured soils
 ANc Antelope-brush - needle-and-thread grass coarse-textured soils, cool aspect
 ANf Antelope-brush - needle-and-thread grass coarse-textured soils, fan
 ANw Antelope-brush - needle-and-thread grass coarse-textured soils, warm aspect
 ASg Trembling aspen - common snowberry moist, gully
 ASp Trembling aspen - common snowberry moist, floodplain
 BA Barren
 BD Water birch - red-osier dogwood swamp
 BE Beach
 BS Paper birch - common snowberry moist, gully
 CA Canal
 CD Black cottonwood - red-osier dogwood floodplain
 CF* Cultivated field
 CLc* Cliff high, cool aspect
 CLw* Cliff high, warm aspect
 CMc* Cliff moderate, cool aspect
 CMw* Cliff moderate, warm aspect
 CO* Cultivated orchard
 CT Common cattail marsh
 CV* Cultivated vineyard
 DPc Douglas-fir - pinegrass mesic, cool aspect
 FL* Feed lot
 GB* Gravel bar
 GC* Golf Course
 GP* Gravel Pit
 HA Black hawthorn copse
 MI* Mine
 OW Shallow open water
 OWa Shallow open water, alkaline
 PA Ponderosa pine - antelope-brush coarse-textured soil
 PB Ponderosa pine - water birch moist, fan
 Paf Ponderosa pine - antelope-brush coarse-textured soil, fan
 PD* Pasture, dry
 PF Ponderosa pine - Idaho fescue warm aspect, deep soil
 PM* Pasture, moist
 PO* Pond
 PS Ponderosa pine - selaginella shallow soil
 PSc Ponderosa pine - selaginella shallow soil, cool aspect
 PSw Ponderosa pine - selaginella shallow soil, warm aspect
 PW Ponderosa pine - bluebunch wheatgrass mesic
 PWc Ponderosa pine - bluebunch wheatgrass mesic, cool aspect

PWf	Ponderosa pine - bluebunch wheatgrass mesic, fluvial
RM	Western redcedar - Douglas maple riparian
RO*	Rock outcrop - lichen
ROc*	Rock outcrop - lichen, cool aspect
ROw*	Rock outcrop - lichen, warm aspect
SB	Silverweed - bulrush meadow
SN	Big sagebrush - needle-and-thread grass coarse textured soil
SNf	Big sagebrush - needle-and-thread grass coarse textured soil, fan
SOc	Saskatoon - mock-orange talus, cool aspect
SOw	Saskatoon - mock-orange talus, warm aspect
SP	Common snowberry - pinegrass moist
SS	Big sagebrush - selaginella very shallow soil
SWl	Big sagebrush - bluebunch wheatgrass mesic, lacustrine
TC*	Transportation corridor
TAc*	Talus, cool aspect
TAw*	Talus, warm aspect
SWl	Big sagebrush - bluebunch wheatgrass mesic, lacustrine
UR	Urban
WAc	Bluebunch wheatgrass - arrow-leaved balsamroot deep soil, cool aspect
WAw	Bluebunch wheatgrass - arrow-leaved balsamroot deep soil, warm aspect
WF	Bluebunch wheatgrass - Idaho fescue coarse-textured soil
WFf	Bluebunch wheatgrass - Idaho fescue coarse-textured soil, fan
WJ	Bluebunch wheatgrass - junegrass mesic
WSc	Bluebunch wheatgrass - selaginella shallow soil, cool aspect
WSw	Bluebunch wheatgrass - selaginella shallow soil, warm aspect
YS	Yellow pine - saskatoon fan

IDFdm1 Kettle Dry Mild Interior Douglas-fir variant

CMc*	Cliff moderate, cool aspect
CMw*	Cliff moderate, warm aspect
CT	Common cattail marsh
DT	Douglas-fir - twinflower mesic
DTc	Douglas-fir - twinflower mesic, cool aspect
DTs	Douglas-fir - twinflower mesic, shallow soil
OW	Shallow open water
PO*	Pond
PPd	Ponderosa pine - pinegrass warm aspect, deep soil
PPs	Ponderosa pine - pinegrass warm aspect, shallow soil
PS	Ponderosa pine - selaginella shallow soil
RO*	Rock outcrop - lichen
ROc*	Rock outcrop - lichen, cool aspect
ROw*	Rock outcrop - lichen, warm aspect
SD	Spruce - red-osier dogwood moist gully
SE	Sedge wetland
SOc	Saskatoon - mock-orange talus, cool aspect
SOw	Saskatoon - mock-orange talus, warm aspect
SS	Big sagebrush - selaginella very shallow soil
TAc*	Talus, cool aspect
TAw*	Talus, warm aspect
WAw	bluebunch wheatgrass - arrow-leaved balsamroot deep soil, warm aspect
WSc	Bluebunch wheatgrass - selaginella shallow soil, cool aspect
WSw	Bluebunch wheatgrass - selaginella shallow soil, warm aspect

IDFxl1 Okanagan Very Dry Hot Interior Douglas-fir variant

ASg	Trembling aspen - common snowberry moist, gully
BA	Barren
BD	Water birch - red-osier dogwood swamp
BE*	Beach
BS	Paper birch - common snowberry moist gully
CD	Black cottonwood - red-osier dogwood floodplain
CLc*	Cliff high, cool aspect
CLw*	Cliff high, warm aspect
CMc*	Cliff moderate, cool aspect
CMw*	Cliff moderate, warm aspect
CT	Common cattail marsh
DP	Douglas-fir - pinegrass mesic
DPc	Douglas-fir - pinegrass mesic, cool aspect
DPf	Douglas-fir - pinegrass mesic, fluvial
DPs	Douglas-fir - pinegrass mesic, shallow soil
DW	Douglas-fir - bluebunch wheatgrass warm aspect, deep soil
FW	Idaho fescue - bluebunch wheatgrass steep, warm aspect
GB	Gravel bar
LA	Large lake
OW	Shallow open water
OWa	Shallow open water, alkaline
PD*	Pasture, dry
PM	Pasture moist
PO*	Pond
PS	Ponderosa pine - selaginella shallow soil
PSc	Ponderosa pine - selaginella shallow soil, cool aspect
PSw	Ponderosa pine - selaginella shallow soil, warm aspect
RO*	Rock outcrop - lichen
ROc*	Rock outcrop - lichen, cool aspect
ROw*	Rock outcrop - lichen, warm aspect
SB	Silverweed - bulrush meadow

SE Sedge wetland
 SOc Saskatoon - mock-orange talus, cool aspect
 SOw Saskatoon - mock-orange talus, warm aspect
 SP Common snowberry - pinegrass moist
 SS Big sagebrush - selaginella very shallow soil
 SWl Big sagebrush - bluebunch wheatgrass mesic, lacustrine
 TAc* Talus, cool aspect
 TAw* Talus, warm aspect
 VKc Vasey's big sagebrush - Kentucky bluegrass grassland, cool aspect
 VKw Vasey's big sagebrush - Kentucky bluegrass grassland, warm aspect
 WA Bluebunch wheatgrass - arrow-leaved balsamroot deep soil
 WAc Bluebunch wheatgrass - arrow-leaved balsamroot deep soil, cool aspect
 WAw Bluebunch wheatgrass - arrow-leaved balsamroot deep soil, warm aspect
 Wbc Bluebunch wheatgrass - Sandberg's bluegrass deep soil, cool aspect
 WJ Bluebunch wheatgrass - junegrass mesic
 WSc Bluebunch wheatgrass - selaginella shallow soil, cool aspect
 WSw Bluebunch wheatgrass - selaginella shallow soil, warm aspect
 YS Yellow pine - saskatoon fan

IDFdk1 Thompson Dry Cool Interior Douglas-fir variant

ASg Trembling aspen - common snowberry moist, gully
 BE* Beach
 DYd Douglas-fir - yarrow warm aspect, deep soil
 DYs Douglas-fir - yarrow warm aspect, shallow soil
 LP Lodgepole pine - pinegrass mesic
 LPc Lodgepole pine - pinegrass mesic, cool aspect
 LPf Lodgepole pine - pinegrass mesic fan
 LPs Lodgepole pine - pinegrass mesic shallow soil
 OW Shallow open water
 PSc Ponderosa pine - selaginella shallow soil, cool aspect
 PSw Ponderosa pine - selaginella shallow soil, warm aspect
 RO* Rock outcrop
 ROc* Rock outcrop, cool aspect
 ROw* Rock outcrop, warm aspect
 SE Sedge wetland
 SOc Saskatoon - mock-orange talus, cool aspect
 SOw Saskatoon - mock-orange talus, warm aspect
 SP Common snowberry - pinegrass moist
 SS Big sagebrush - selaginella very shallow soil
 TAc* Talus, cool aspect
 TAw* Talus, warm aspect
 VK Vasey's big sagebrush - Kentucky bluegrass grassland
 VKc Vasey's big sagebrush - Kentucky bluegrass grassland, cool aspect
 VKw Vasey's big sagebrush - Kentucky bluegrass grassland, warm aspect
 WAw Bluebunch wheatgrass - arrow-leaved balsamroot deep soil, warm aspect
 WSc Bluebunch wheatgrass - selaginella shallow soil, cool aspect
 WSw Bluebunch wheatgrass - selaginella shallow soil, warm aspect

MSxk Very Dry Cool Montane Spruce subzone

ASg Trembling aspen - common snowberry moist, gully
 DAd Douglas-fir - heart-leaved arnica warm aspect, deep soil
 DAs Douglas-fir - heart-leaved arnica warm aspect, shallow soil
 LL Lodgepole pine - arctic lupine mesic
 LLc Lodgepole pine - arctic lupine mesic, cool aspect
 LLs Lodgepole pine - arctic lupine mesic, shallow soil
 OW Shallow open water
 RO* Rock outcrop
 ROc* Rock outcrop, cool aspect

ROw* Rock outcrop, warm aspect
SG Spruce - black gooseberry moist
TAc* Talus, cool aspect
TAw* Talus, warm aspect
VK Vasey's big sagebrush - Kentucky bluegrass grassland
VKc Vasey's big sagebrush - Kentucky bluegrass grassland, cool aspect
VKw Vasey's big sagebrush - Kentucky bluegrass grassland, warm aspect
WSw Bluebunch wheatgrass - selaginella shallow soil, warm aspect

ESSFxc Very Dry Cold Engelmann Spruce - Subalpine Fir subzone

FG Subalpine fir - grouseberry mesic
FGc Subalpine fir - grouseberry mesic, cool aspect
OW Shallow open water
PO* Pond
RO* Rock outcrop
ROc* Rock outcrop, cool aspect
ROw* Rock outcrop, warm aspect
SE Sedge wetland
SG Spruce - black gooseberry moist
VK Vasey's big sagebrush - Kentucky bluegrass grassland
VKc Vasey's big sagebrush - Kentucky bluegrass grassland, cool aspect
VKw Vasey's big sagebrush - Kentucky bluegrass grassland, warm aspect
WSw Bluebunch wheatgrass - selaginella shallow soil, warm aspect

Successional Stages

- 1 Shrub-Herb
- 2 Pole-Sapling
- 3 Young Forest
- 4 Mature Forest
- 5 Old-growth Forest

Range Condition Classes

- P Poor
- F Fair
- G Good
- E Excellent

(range condition classes mapped are based on knowledge of the most common range condition in a particular area, not from sampling on each map unit; these ratings need to be checked on the ground)

Shrub Closure (based on the presence of sagebrush or antelope-brush)

- s Sparse (less than 10% crown closure)
- m Moderate (10 to 30% crown closure)
- d Dense (greater than 30% crown closure)
- c Dense (greater than 30% crown closure) cover of snowbrush ceanothus

Tree Crown Closure

- s Sparse (less than 25%)
- m Moderate (25 to 65%)
- d Dense (greater than 65%)

HABITAT CLASSES
OF THE BGxh1

AE	Antelope-brush - evening-primrose warm aspect, coarse sand	Biogeoclimatic Unit BGxh1		
Description: occurs at lower elevations on warm southeast to westerly aspects; deep soils of coarse-textured glaciofluvial materials; very droughty, rapidly drained soil; moderate to steep sloped; greater than 25% slope				
Map Symbol	Stage	Successional Trends		
		Dominants	Associates	Plots
AE: P	Poor	shrub/grassland with sparse herb layer of: antelope-brush cheatgrass evening-primrose	big sagebrush rabbit-brush snow buckwheat prickly-pear cactus	
AE:F	Fair	shrub/grassland of: antelope-brush cheatgrass needle-and-thread grass prickly-pear cactus	big sagebrush rabbit-brush sand dropseed red three-awn snow buckwheat bluebunch wheatgrass evening-primrose	
AE:G	Good	shrub/grassland of: antelope-brush needle-and-thread grass bluebunch wheatgrass	big sagebrush rabbit-brush sand dropseed red three-awn snow buckwheat prickly-pear cactus cheatgrass	
AE:E	Excellent	shrub/grassland of: antelope-brush bluebunch wheatgrass needle-and-thread grass	big sagebrush rabbit-brush sand dropseed red three-awn	
Comments: Aeolian or subject to removal of organic material with heavy use by livestock.				

AN	Antelope-brush - needle-and-thread grass coarse-textured soils	Biogeoclimatic Unit BGxh1		
Description: coarse-textured soils of glaciofluvial materials, often with a capping of aeolian sands; occurs on flat to gently sloping areas; rapidly drained, droughty sites				
Map Symbol	Stage	Successional Trends		
		Dominants	Associates	Plots
AN:P	Poor	shrub/grassland of: antelope-brush cheatgrass needle-and-thread grass	rabbit-brush red three-awn sand dropseed big sagebrush Indian wheat	90031B 91055
AN:F	Fair	shrub/grassland of: antelope-brush needle-and-thread grass cheatgrass sand dropseed	rabbit-brush red three-awn Sandberg's bluegrass big sagebrush prickly pear cactus bluebunch wheatgrass	90031A 90021 91050 92254
AN:G	Good	shrub/grassland of: antelope-brush bluebunch wheatgrass red three-awn compact selaginella needle-and-thread grass	red three-awn sand dropseed Sandberg's bluegrass snow buckwheat prickly-pear cactus cheatgrass arrow-leaved balsam root	91048 91033 91024 91003
AN:E	Excellent	shrub/grassland of: antelope-brush bluebunch wheatgrass compact selaginella red three-awn	sand dropseed Sandberg's bluegrass needle-and thread grass three-leaved sedge cheatgrass	91045 91003
Comments: -litter layers are important for maintaining soil moisture and for humus accumulation; cryptogams are valuable for preventing soil erosion				

ANc	Antelope-brush - needle-and-thread grass coarse-textured soils, cool aspect	Biogeoclimatic Unit BGxh1		
Description: coarse-textured soils of glaciofluvial materials, often with a capping of aeolian sands; occurs on moderate to steeply sloping areas of easterly and northerly aspects greater than 25%; rapidly drained, droughty sites				
Map Symbol	Stage	Successional Trends		
		Dominants	Associates	plots
ANc:P	Poor	shrub/grassland of: antelope-brush cheatgrass needle-and-thread grass	rabbit-brush red three-awn sand dropseed big sagebrush Indian wheat	
ANc:F	Fair	shrub/grassland of: antelope-brush needle-and-thread grass cheatgrass sand dropseed	rabbit-brush red three-awn Sandberg's bluegrass big sagebrush prickly pear cactus bluebunch wheatgrass	
ANc:G	Good	shrub/grassland of: antelope-brush bluebunch wheatgrass red three-awn compact selaginella needle-and-thread grass	red three-awn sand dropseed Sandberg's bluegrass snow buckwheat prickly-pear cactus cheatgrass arrow-leaved balsam root	
ANc:E	Excellent	shrub/grassland of: antelope-brush bluebunch wheatgrass compact selaginella red three-awn	sand dropseed Sandberg's bluegrass needle-and thread grass three-leaved sedge cheatgrass	
Comments: litter layers are important for maintaining soil moisture and for humus accumulation; cryptogams are valuable for preventing soil erosion				

ANf	Antelope-brush - needle-and-thread grass coarse-textured soils, fan		Biogeoclimatic Unit BGxh1	
Description: coarse-textured soils of glaciofluvial fans, often with a capping of aeolian sands; occurs on flat to gently sloping areas; rapidly drained, droughty sites				
Map Symbol	Stage	Successional Trends		
		Dominants	Associates	Plots
ANf:P	Poor	shrub/grassland of: antelope-brush cheatgrass needle-and-thread grass	rabbit-brush red three-awn sand dropseed big sagebrush Indian wheat	
ANf:F	Fair	shrub/grassland of: antelope-brush needle-and-thread grass cheatgrass sand dropseed	rabbit-brush red three-awn Sandberg's bluegrass big sagebrush prickly pear cactus bluebunch wheatgrass	
ANf:G	Good	shrub/grassland of: antelope-brush bluebunch wheatgrass red three-awn compact selaginella needle-and-thread grass	red three-awn sand dropseed Sandberg's bluegrass snow buckwheat prickly-pear cactus cheatgrass arrow-leaved balsam root	
ANf:E	Excellent	shrub/grassland of: antelope-brush bluebunch wheatgrass compact selaginella red three-awn	sand dropseed Sandberg's bluegrass needle-and thread grass three-leaved sedge cheatgrass	
Comments: litter layers are important for maintaining soil moisture and for humus accumulation; cryptogams are valuable for preventing soil erosion; moisture may be available from deep within the soil profile allowing for tree establishment or growth or shrubs, such as saskatoon.				

ANw	Antelope-brush - needle-and-thread grass coarse-textured soils, warm aspect		Biogeoclimatic Unit BGxh1	
Description: coarse-textured soils of glaciofluvial materials, often with a capping of aeolian sands; occurs on moderate to steeply sloping areas of warm southeast to westerly greater than 25% slope; rapidly drained, droughty sites				
Map Symbol	Stage	Successional Trends		
		Dominants	Associates	Plots
ANw:P	Poor	shrub/grassland of: antelope-brush cheatgrass needle-and-thread grass	rabbit-brush red three-awn sand dropseed big sagebrush Indian wheat	
ANw:F	Fair	shrub/grassland of: antelope-brush needle-and-thread grass cheatgrass sand dropseed	rabbit-brush red three-awn Sandberg's bluegrass big sagebrush prickly pear cactus bluebunch wheatgrass	
ANw:G	Good	shrub/grassland of: antelope-brush bluebunch wheatgrass red three-awn compact selaginella needle-and-thread grass	red three-awn sand dropseed Sandberg's bluegrass snow buckwheat prickly-pear cactus cheatgrass arrow-leaved balsam root	
ANw:E	Excellent	shrub/grassland of: antelope-brush bluebunch wheatgrass compact selaginella red three-awn	sand dropseed Sandberg's bluegrass needle-and thread grass three-leaved sedge cheatgrass	
Comments: litter layers are important for maintaining soil moisture and for humus accumulation; cryptogams are valuable for preventing soil erosion				

ASg	Trembling aspen - common snowberry moist, gully		Biogeoclimatic Unit BGxh1
Description: moist gully areas, sometimes with seasonal creeks; often rich soils due to a buildup of broad-leaved litter; may be steep-sided slopes into the gully;			
Map Symbol	Stage	Successional Trends	
		Dominants	Associates
ASg1	Shrub-Herb	shrub/herb dominated cover of: Wood's rose common snowberry trembling aspen Kentucky bluegrass	choke cherry saskatoon poison-ivy white clematis red-osier dogwood common hound's-tongue
ASg2	Pole-Sapling	broad-leaved forest of: trembling aspen Wood's rose poison-ivy common snowberry	choke cherry white clematis common hound's-tongue red-osier dogwood Kentucky bluegrass
ASg3	Young Forests	broad-leaved forest of: trembling aspen Wood's rose poison ivy saskatoon common snowberry	choke cherry white clematis common hound's-tongue common snowberry black cottonwood red-osier dogwood
ASg4	Mature Forests	broad-leaved forest of: trembling aspen Wood's rose common snowberry saskatoon trembling aspen Kentucky bluegrass	choke cherry saskatoon poison-ivy white clematis red-osier dogwood Kentucky bluegrass common hound's-tongue
ASg5	Old-Growth	closed forest of: Douglas-fir Wood's rose common snowberry saskatoon	Kentucky bluegrass trembling aspen choke cherry poison-ivy white clematis red-osier dogwood common hound's-tongue
Comments: the old-growth stage may not occur, however these sites may eventually be dominated by Douglas-fir with no disturbance; rich forest floor material of deciduous leaves			

REDO BASED ON PLOT 90061

(I don't have the info)

ASp	Trembling aspen - common snowberry moist, floodplain		Biogeoclimatic Unit BGxh1	
Description: moist floodplain areas, usually above regularly flooded sites; often rich soils due to a buildup of broad-leaved litter;				
Map Symbol	Stage	Successional Trends		
		Dominants	Associates	Plots
ASp1	Shrub-Herb	shrub/herb dominated cover of: Wood's rose common snowberry trembling aspen Kentucky bluegrass	choke cherry saskatoon poison-ivy white clematis red-osier dogwood common hound's-tongue	
ASp2	Pole-Sapling	broad-leaved forest of: trembling aspen saskatoon mock orange cheatgrass	choke cherry red-osier dogwood wood's rose common snowberry poison ivy red elderberry	
ASp3	Young Forests	broad-leaved forest of: trembling aspen saskatoon mock orange cheatgrass	choke cherry red-osier dogwood wood's rose common snowberry poison ivy red elderberry	90016
ASp4	Mature Forests	broad-leaved forest of: trembling aspen Wood's rose common snowberry poison-ivy Kentucky bluegrass	choke cherry saskatoon white clematis red-osier dogwood common	
ASp5	Old-Growth	closed forest of: Wood's rose common snowberry trembling aspen saskatoon choke cherry	Douglas fir- water birch- Douglas maple common hound's-tongue	90052 90009
Comments: the old-growth stage may not occur, however these sites may eventually be dominated by Douglas-fir with no disturbance; rich forest floor material of deciduous leaves				

BD	Water birch - red-osier dogwood swamp	Biogeoclimatic Unit BGxh1		
Description: active floodplain area; high water table for part of year; imperfectly to poorly drained soils				
Map Symbol	Stage	Vegetation		
		Dominants	Associates	Plots
BD	Edaphic Climax	dense shrub cover of: mountain alder red-osier dogwood water birch poison-ivy Wood's rose	willows stinging nettle star-flowered false Solomon's-seal bittersweet Canda thistle	90039 90022 91004 91053
Comments: usually surrounded by other wetland types such as marshes and shallow open water areas				

CB	Summer-cypress - bentgrass meadow		Biogeoclimatic Unit BGxh1	
Description: pondside area subject to high water table for much of the year; very poorly drained lacustrine material				
Map Symbol	Stage	Vegetation		
CB	Edaphic Climax	Dominants	Associates	Plot
		forb cover of: summer cypress bentgrass bulrush	dock lamb's quarters thistle	90064
Comments:				

CD	Black cottonwood - red-osier dogwood floodplain	Biogeoclimatic Unit BGxh1		
Description: active floodplain area; subject to high water table for part of year; usually sandy material over gravels				
Map Symbol	Stage	Successional Trends		
		Dominants	Associates	Plots
CD1	Shrub-Herb	shrub dominated cover of: willows red-osier dogwood black cottonwood poison-ivy	common snowberry sumac star flowered false Solomon's seal Wood's rose Nootka rose mountain alder water birch	92231
CD2	Pole-Sapling	broad-leaved forest of: black cottonwood and a dense shrub cover of red-osier dogwood Wood's rose poison-ivy	paper birch willows common snowberry sumac Kentucky bluegrass scouring-rush star-flowered false Solomon's-seal	
CD3	Young Forests	broad-leaved forest of: black cottonwood and a dense shrub cover of red-osier dogwood Wood's rose poison-ivy	paper birch willows common snowberry sumac Kentucky bluegrass scouring-rush star-flowered false Solomon's-seal	
CD4	Mature Forests	broad-leaved forest of: black cottonwood and a dense shrub cover of red-osier dogwood Wood's rose poison-ivy	paper birch willows common snowberry sumac Kentucky bluegrass scouring-rush star-flowered false Solomon's-seal	
CD5	Old-Growth	broad-leaved forest of: black cottonwood and a dense shrub cover of red-osier dogwood Wood's rose poison-ivy	willows common snowberry sumac Kentucky bluegrass scouring-rush star-flowered false Solomon's-seal	92240 90001 90018 90035 90062 91010 91032 92228
Comments: usually very dense shrub understory; rich forest floor material of deciduous leaves; these areas can have common hound's tongue				

CT	Common cattail marsh	Biogeoclimatic Unit BGxh1		
Description: high water table for most of the year; vegetation is usually partially covered by water				
Map Symbol	Stage	Vegetation		
CT	Edaphic Climax	Dominants	Associates	Plots
		emergent cover of: common cattail or great bulrush	horsetail common duckweed reed canarygrass rush	92234 90044
Comments: Through time those wetlands where cattail dominates should be separated from where bulrush dominates.				

HA	Black hawthorn copse	Biogeoclimatic Unit BGxh1		
Description: moist areas often associated with seasonal creeks				
Map Symbol	Stage	Vegetation		
HA	Edaphic Climax	Dominants	Associates	Plots
		Dense shrub thicket of black hawthorn		
Comments:				

OW	Shallow open water	Biogeoclimatic Unit BGxh1		
Description: Shallow open water wetland with water generally less than 2m deep.				
Map Symbol	Stage	Vegetation		
		Dominants	Associates	Plots
OW	Edaphic Climax	Various submerged aquatic vegetation including: poond weeds duckweed milfoil		
Comments: Variety of habitat from sparsely to densely vegetated, may become dry in summer				

PA	Ponderosa pine - antelope brush coarse-textured soil	Biogeoclimatic Unit BGxh1		
Description: coarse-textured soils of glacio-fluvial soil; occurs on flat to gently sloping areas; rapidly drained droughty soil				
Map Symbol	Stage	Successional Trends		
		Dominants	Associates	Plots
PA1	Shrub-Herb			
PA2	Pole-Sapling			
PA3	Young Forests			
PA4	Mature Forests	Ponderosa pine bluebunch wheatgrass	saskatoon cheatgrass antelope brush compact selaginella Idaho fescue	91051 91007
PA5	Old-Growth	Ponderosa pine bluebunch wheatgrass red three-awn	saskatoon arrow-leaved balsamroot compact selaginella Sandberg's bluegrass antelope brush	91023
Comments:				

PB	Ponderosa pine - water birch moist fan	Biogeoclimatic Unit BGxh1		
Description: gently-sloping sandy fluvial fan; imperfectly drained soil				
Map Symbol	Stage	Successional Trends		
		Dominants	Associates	Plots
PB1	Shrub-Herb	shrub-herb cover of saskatoon water birch kinnikinnick	Wood's rose black hawthorn field pussytoes	
PB2	Pole-Sapling	open, mixed forest of: ponderosa pine saskatoon water birch Kentucky bluegrass kinnikinnick	black cottonwood Wood's rose black hawthorn nodding onion field pussytoes	
PB3	Young Forests	open, mixed forest of: ponderosa pine saskatoon water birch Kentucky bluegrass kinnikinnick	black cottonwood Wood's rose black hawthorn nodding onion field pussytoes	
PB4	Mature Forests	open, mixed forest of: ponderosa pine saskatoon water birch Kentucky bluegrass kinnikinnick	black cottonwood Wood's rose black hawthorn nodding onion field pussytoes	
PB5	Old-Growth	open, mixed forest of: ponderosa pine saskatoon water birch Kentucky bluegrass kinnikinnick	black cottonwood Wood's rose black hawthorn nodding onion field pussytoes	
Comments: unusual combination of moist and dry species due to dry layers of soil at top and moister soil at depth; rare ecosystem.				

PSc	Ponderosa pine - selaginella shallow soil, cool aspect		Biogeoclimatic Unit BGxh1	
Description: steep, cool, northerly or easterly aspects; shallow (less than one metre) soils of various parent materials over bedrock; droughty sites				
Map Symbol	Stage	Successional Trends		
		Dominants	Associates	Plots
PSc1	Shrub-Herb	grass/steppe of: saskatoon bluebunch wheatgrass cheatgrass compact selaginella	big sagebrush Idaho fescue Sandberg's bluegrass arrow-leaved balsamroot desert-parsley	
PSc2	Pole-Sapling	parkland to open forest of: ponderosa pine saskatoon bluebunch wheatgrass compact selaginella	Douglas-fir big sagebrush Idaho fescue cheatgrass Sandberg's bluegrass arrow-leaved balsamroot desert-parsley	
PSc3	Young Forests	parkland to open forest of: ponderosa pine saskatoon bluebunch wheatgrass compact selaginella	Douglas-fir big sagebrush Idaho fescue cheatgrass Sandberg's bluegrass arrow-leaved balsamroot desert-parsley	
PSc4	Mature Forests	open to closed forest of: ponderosa pine saskatoon bluebunch wheatgrass compact selaginella	Douglas-fir big sagebrush Idaho fescue cheatgrass Sandberg's bluegrass arrow-leaved balsamroot desert-parsley	
PSc5	Old-Growth	open to closed forest of: ponderosa pine saskatoon bluebunch wheatgrass compact selaginella	Douglas-fir big sagebrush Idaho fescue cheatgrass Sandberg's bluegrass arrow-leaved balsamroot desert-parsley	
Comments: early successional stages will have similar range condition classes as the Bluebunch wheatgrass - selaginella shallow soil, cool aspect (WSc) habitat class				

SB	Silverweed - bulrush meadow		Biogeoclimatic Unit BGxh1	
Description: pondside area subject to high water table for much of the year; very poorly drained lacustrine material				
Map Symbol	Stage	Successional Trends		
		Dominants	Associates	Plots
SB	Edaphic Climax	graminoid-forb cover of: bulrush silverweed	common spike-rush weeping alkaligrass swamp smartweed shore buttercup bluegrass	90043
Comments:				

SN	Big sagebrush - needle-and-thread grass coarse-textured soil		Biogeoclimatic Unit BGxh1	
<p>Description: gentle to moderate sloping areas; coarse-textured sandy soils of glaciofluvial material; rapidly drained soils often with and aeolian capping; this unit usually occurs at higher elevation in the Okanagan Valley or in the Similkameen River drainage</p>				
Map Symbol	Stage	Successional Trends		
		Dominants	Associates	Plots
SN:P	Poor	shrub/steppe vegetation of: big sagebrush cheatgrass Indian wheat	rabbit-brush threetip sagebrush Sandberg's bluegrass needle-and-thread grass sand dropseed	90013 90029 90012 90049 90038 90041
SN:F	Fair	shrub/steppe vegetation of: big sagebrush needle-and-thread grass Sandberg's bluegrass cheatgrass	rabbit-brush threetip sagebrush antelope-brush sand dropseed brittle prickly-pear cactus bluebunch wheatgrass	90047 90015
SN:G	Good	shrub/steppe of: big sagebrush needle-and-thread grass bluebunch wheatgrass	rabbit-brush threetip sagebrush antelope-brush Sandberg's bluegrass sand dropseed brittle prickly-pear cactus cheatgrass moderate cover of cryptogams	
SN:E	Excellent	shrub/steppe of: big sagebrush needle-and-thread grass bluebunch wheatgrass good cover of cryptogams	rabbit-brush threetip sagebrush antelope-brush Sandberg's bluegrass sand dropseed brittle prickly-pear cactus cheatgrass	
<p>Comments: this unit is replace by the Antelope-brush - needle-and-thread grass coarse-textured soil (AN) habitat class at lower elevations in the main Okanagan valley; extensively occurring unit; big sagebrush may become less common in the excellent condition stage due to competition from the grasses</p>				

SNf	Big sagebrush - needle-and-thread grass coarse-textured soil, fan		Biogeoclimatic Unit BGxh1	
Description: gentle to moderate sloping areas; coarse-textured sandy soils of glaciofluvial fans; rapidly drained soils often with and aeolian capping; this unit usually occurs at higher elevation in the Okanagan Valley or in the Similkameen River drainage				
Map Symbol	Stage	Successional Trends		
		Dominants	Associates	Plots
SNf:P	Poor	shrub/steppe vegetation of: big sagebrush cheatgrass Indian-wheat	rabbit-brush threetip sagebrush Sandberg's bluegrass needle-and-thread grass barren vulpia sand dropseed six-weeks fescue low pussytoes	
SNf:F	Fair	shrub/steppe vegetation of: big sagebrush compact selaginella	rabbit-brush cheatgrass Sandberg's bluegrass arrow-leaved balsamroot bluebunch wheatgrass	92230
SNf:G	Good	shrub/steppe of: big sagebrush needle-and-thread grass bluebunch wheatgrass	rabbit-brush threetip sagebrush antelope-brush Sandberg's bluegrass sand dropseed brittle prickly-pear cactus cheatgrass moderate cover of cryptogams	
SNf:E	Excellent	shrub/steppe of: big sagebrush needle-and-thread grass bluebunch wheatgrass good cover of cryptogams	rabbit-brush threetip sagebrush antelope-brush Sandberg's bluegrass sand dropseed brittle prickly-pear cactus cheatgrass	
Comments: this unit is replace by the Antelope-brush - needle-and-thread grass coarse-textured soil (AN) habitat class at lower elevations in the main Okanagan valley; big sagebrush may become less common in the excellent condition stage due to competition from the grasses				

SOc	Saskatoon - mock-orange talus, cool aspect		Biogeoclimatic Unit BGxh1	
Description: steep sites of rubbly or blocky colluvial material at the base of rock outcrops; cool northern and eastern aspect (over 25% slope).				
Map Symbol	Stage	Successional Trends		
SOc	Edaphic Climax	Dominants	Associates	Plots
		sparse shrub cover of: saskatoon sumac ocean-spray big sagebrush poison-ivy white clematis	antelope-brush mock-orange bluebunch wheatgrass cheatgrass Oregon woodsia	
Comments: sparsely vegetated unit often mixed with unvegetated talus; Douglas-fir or ponderosa pine may occur				

SOW	Saskatoon - mock-orange talus, warm aspect		Biogeoclimatic Unit BGxh1	
Description: steep sites of rubbly or blocky colluvial material at the base of rock outcrops; southeast to westerly aspect (greater than 25% slope)				
Map Symbol	Stage	Successional Trends		
		Dominants	Associates	Plots
SOW	Edaphic Climax	sparse shrub cover of: mock orange saskatoon big sagebrush sumac	cheatgrass poison-ivy bluebunch wheatgrass white clematis	91006 90030
Comments: sparsely vegetated unit often mixed with unvegetated talus; Douglas-fir or ponderosa pine may occur				

SP	Common snowberry - pinegrass moist	Biogeoclimatic Unit BGxh1		
Description: moisture receiving sites in lower slope positions; often gulleys; rich soil				
Map Symbol	Stage	Successional Trends		
		Dominants	Associates	Plots
SP1	Shrub-Herb	moderate to dense shrub cover of Wood's rose common snowberry pinegrass	tall Oregon grape Douglas maple kentucky bluegrass	
SP2	Pole-Sapling	closed forests of Douglas-fir common snowberry Wood's rose pinegrass	ponderosa pine trembling aspen tall Oregon-grape Douglas maple Kentucky bluegrass	
SP3	Young Forests	closed forests of Douglas-fir common snowberry Wood's rose pinegrass	ponderosa pine trembling aspen tall Oregon-grape Douglas maple Kentucky bluegrass	
SP4	Mature Forests	closed forests of Douglas-fir common snowberry Wood's rose pinegrass	ponderosa pine trembling aspen tall Oregon-grape Douglas maple Kentucky bluegrass	
SP5	Old-Growth	closed forests of Douglas-fir common snowberry Wood's rose pinegrass	ponderosa pine trembling aspen tall Oregon-grape Douglas maple Kentucky bluegrass	
Comments:				

SS	Big sagebrush - selaginella very shallow soil	Biogeoclimatic Unit BGxh1		
Description: gentle to moderate sloping areas of very shallow soil over rock outcrops; droughty sites that are rapidly drained				
Map Symbol	Stage	Successional Trends		
		Dominants	Associates	Plots
SS:P	Poor	sparse shrub/steppe of: big sagebrush cheatgrass needle-and-thread grass	sand dropseed Indian-wheat rabbit-brush parsnip-flowered buckwheat line leaved fleabane	90065
SS:F	Fair	sparse shrub/steppe of: big sagebrush needle-and-thread grass cheatgrass compact selaginella	rabbit-brush sand dropseed bluebunch wheatgrass line-leaved fleabane Sandberg's bluegrass brittle prickly-pear cactus	
SS:G	Good	sparse shrub/steppe of: big sagebrush bluebunch wheatgrass Sandberg's bluegrass compact selaginella needle-and-thread grass	saskatoon three-tip sagebrush line leaved fleabane brittle prickly pear cactus cheatgrass arrow-leaved balsamroot	90034
SS:E	Excellent	sparse shrub/steppe of: big sagebrush bluebunch wheatgrass needle-and-thread grass compact selaginella	rabbit-brush sand dropseed Sandberg's bluegrass line-leaved fleabane cheatgrass brittle prickly-pear cactus	
Comments:				

SWI	Big sagebrush - bluebunch wheatgrass mesic, lacustrine	Biogeoclimatic Unit BGxh1		
Description: gentle to moderate sloped areas of lacustrine material; deep, well drained soil				
Map Symbol	Stage	Successional Trends		
		Dominants	Associates	Plots
SWI:P	Poor	shrub/steppe of: big sagebrush cheatgrass Indian wheat	threetip sagebrush needle-and-thread grass Sandberg's bluegrass rabbit-brush sand dropseed	90060
SWI:F	Fair	shrub/steppe of: big sagebrush needle-and-thread grass Sandberg's bluegrass	threetip sagebrush rabbit-brush sand dropseed cheatgrass bluebunch wheatgrass long-leaved phlox	
SWI:G	Good	shrub/steppe of: big sagebrush bluebunch wheatgrass needle-and-thread grass Sandberg's bluegrass	threetip sagebrush rabbit brush sand dropseed cheatgrass long-leaved fleabane six-weeks fescue junegrass long-leaved phlox moderate cryptogam cover	92242
SWI:E	Excellent	shrub/steppe of: big sagebrush bluebunch wheatgrass needle-and-thread grass Sandberg's bluegrass good cover of cryptogams	antelope brush needle-and-thread grass Idaho fescue threetip sagebrush sand dropseed junegrass	92238
Comments: droughty sites due to slow percolation of moisture.				

SWm	Big sagebrush - bluebunch wheatgrass mesic, morainal		Biogeoclimatic Unit BGxh1	
Description: gentle to moderate sloped areas of lacustrine material; deep, well drained soil				
Map Symbol	Stage	Successional Trends		
		Dominants	Associates	Plots
SWm:P	Poor	shrub/steppe of: big sagebrush cheatgrass Sandberg's bluegrass Indian wheat	threetip sagebrush rabbit-brush sand dropseed needle-and-thread grass arrow-leaved balsam root long-leaved phlox	90028
SWm:F	Fair	shrub/steppe of: big sagebrush Sandberg's bluegrass	threetip sagebrush rabbit-brush sand dropseed long-leaved phlox needle-and-thread grass cheatgrass bluebunch wheatgrass	90003 90023
SWm:G	Good	shrub/steppe of: big sagebrush bluebunch wheatgrass needle-and-thread grass Sandberg's bluegrass	threetip sagebrush rabbit-brush sand dropseed junegrass cheatgrass long-leaved phlox moderate cryptogam cover	
SWm:E	Excellent	shrub/steppe of: big sagebrush bluebunch wheatgrass good cover of cryptogams	Sandberg's bluegrass silky lupine threetip sagebrush rabbit brush sand dropseed junegrass	91029
Comments:				

Wbc	Bluebunch wheatgrass - Sandberg's bluegrass deep soil, cool aspect	Biogeoclimatic Unit BGxh1		
Description: steep, cool, northerly or easterly aspects; deep soils of various parent materials;				
Map Symbol	Stage	Successional Trends		
		Dominants	Associates	Plots
Wbc:P	Poor	shrub/steppe of: big sagebrush cheatgrass	threetip sagebrush long-leaved phlox thread-leaved phacelia pasture sage needle-and-thread grass Sandberg's bluegrass arrow-leaved balsam-root	90051 90019
Wbc:F	Fair	shrub/steppe of: big sagebrush needle-and-thread grass cheatgrass Sandberg's bluegrass	three-tip sagebrush bluebunch wheatgrass sand dropseed arrow-leaved balsamroot Sandberg's bluegrass long-leaved phlox shaggy fleabane	90042 91056
Wbc:G	Good	shrub/steppe of: big sagebrush bluebunch wheatgrass Sandberg's bluegrass junegrass	threetip sagebrush rabbit brush silky lupine long-leaved fleabane needle and thread grass sand dropseed cheatgrass	90048 90063
Wbc:E	Excellent	grass/steppe of: bluebunch wheatgrass Sandberg's bluegrass junegrass big sagebrush	threetip sagebrush Idaho fescue sand dropseed cheatgrass long-leaved fleabane	
Comments: Wbc:P can be dominated by threetip sagebrush or big sagebrush with the other absent depending on hte site.				

WBw	Bluebunch wheatgrass - Sandberg's bluegrass deep soil, warm aspect	Biogeoclimatic Unit BGxh1		
Description: steep, warm, southeast to west aspects; deep soils of various parent materials;				
Map Symbol	Stage	Successional Trends		
		Dominants	Associates	Plots
WBw:P	Poor	shrub/steppe of: big sagebrush cheatgrass	antelope-brush sand dropseed long-leaved phlox thread-leaved phacelia pasture sage needle-and-thread grass Sandberg's bluegrass	90028 90007
WBw:F	Fair	shrub/steppe of: big sagebrush cheatgrass Sandberg's bluegrass sand dropseed	bluebunch wheatgrass arrow-leaved balsamroot needle-and-thread grass red three awn snow buckwheat pasture sage antelope brush	90046 90020
WBw:G	Good	shrub/steppe of: big sagebrush bluebunch wheatgrass Sandberg's bluegrass junegrass	antelope-brush needle-and-thread grass sand dropseed cheatgrass silky lupine long-leaved fleabane arrow-leaved balsamroot	
WBw:E	Excellent	grass/steppe of: bluebunch wheatgrass Sandberg's bluegrass cheatgrass	antelope brush big sagebrush long-leaved fleabane junegrass Idaho fescue	90059
Comments: Idaho fescue is more common at ipper elevations of this unit.				

WSc	Bluebunch wheatgrass - selaginella shallow soil, cool aspect	Biogeoclimatic Unit BGxh1		
Description: steep, cool, northerly or easterly aspects; shallow (less than one metre) soils of various parent materials over bedrock; droughty sites				
Map Symbol	Stage	Successional Trends		
		Dominants	Associates	Plots
WSc:P	Poor	shrub/steppe of: big sagebrush needle-and-thread grass cheatgrass	rabbit-brush sand dropseed pasture sage compact selaginella bluebunch wheatgrass	
WSc:F	Fair	shrub/steppe of: big sagebrush Sandberg's bluegrass	rabbit-brush needle-and-thread grass cheatgrass long-leaved phlox three-tip sagebrush	92229 90024
WSc:G	Good	shrub/steppe of: big sagebrush bluebunch wheatgrass compact selaginella	rabbit-brush Sandberg's bluegrass needle-and-thread grass cheatgrass pasture sage threetip sagebrush antelope brush	90040
WSc:E	Excellent	shrub/steppe of: big sagebrush bluebunch wheatgrass Sandberg's bluegrass compact selaginella	rabbit-brush needle-and-thread grass cheatgrass sand dropseed snow buckwheat	
Comments:				

WSw	Bluebunch wheatgrass - selaginella shallow soil, warm aspect	Biogeoclimatic Unit BGxh1		
Description: steep, warm southeast to west aspects; shallow (less than one metre) soils of various parent materials over bedrock; droughty sites				
Map Symbol	Stage	Successional Trends		
		Dominants	Associates	Plots
WSw:P	Poor	shrub/steppe of: big sagebrush needle-and-thread grass cheatgrass	rabbit-brush sand dropseed pasture sage compact selaginella bluebunch wheatgrass	
WSw:F	Fair	shrub/steppe of: big sagebrush needle-and-thread grass cheatgrass bluebunch wheatgrass compact selaginella	rabbit-brush sand dropseed Sandberg's bluegrass snow buckwheat pasture sage	
WSw:G	Good	shrub/steppe of: big sagebrush bluebunch wheatgrass compact selaginella	rabbit-brush Sandberg's bluegrass needle-and-thread grass cheatgrass sand dropseed snow buckwheat	
WSw:E	Excellent	shrub/steppe of: big sagebrush bluebunch wheatgrass	three-tip sagebrush Sandberg's bluegrass compact selaginella sagebrush mariposa lily Thompson's paintbrush	90017
Comments:				

YS	Yellow pine (or ponderosa) - saskatoon fan		Biogeoclimatic Unit BGxh1	
Description: moderate to gentle sloping fan; rubbly and blocky colluvial materials;				
Map Symbol	Stage	Successional Trends		
		Dominants	Associates	Plots
YS1	Shrub-Herb	shrub/steppe of: big sagebrush bluebunch wheatgrass needle-and-thread grass cheatgrass	saskatoon sumac compact selaginella pussytoes	
YS2	Pole-Sapling	open forest of: ponderosa pine saskatoon bluebunch wheatgrass compact selaginella	Douglas-fir sumac squaw currant Sandberg's bluegrass timber milk-vetch	
YS3	Young Forests	open forest of: ponderosa pine saskatoon bluebunch wheatgrass compact selaginella	Douglas-fir sumac squaw currant Sandberg's bluegrass timber milk-vetch	
YS4	Mature Forests	open forest of: ponderosa pine saskatoon bluebunch wheatgrass compact selaginella	Douglas-fir sumac squaw currant Sandberg's bluegrass timber milk-vetch	
YS5	Old-Growth	open forest of: ponderosa pine saskatoon bluebunch wheatgrass compact selaginella	Douglas-fir sumac squaw currant Sandberg's bluegrass timber milk-vetch	90002
Comments: these sites are very droughty on the surface and may have good moisture available deeper in the soil; for the shrub-herb stage range condition classes will be similar to the Big sagebrush - selaginella very shallow soil (SS) habitat unit				

**HABITAT CLASSES
OF THE Ppxh1**

ASg	Trembling aspen - common snowberry moist, gully		Biogeoclimatic Unit PPxh1 PPxh1a	
Description: moist gully areas, sometimes with seasonal creeks; often rich soils due to a buildup of broad-leaved litter; may be steep-sided slopes into the gully;				
Map Symbol	Stage	Successional Trends		
		Dominants	Associates	Plots
ASg1	Shrub-Herb	shrub/herb dominated cover of: Nootka rose common snowberry trembling aspen Kentucky bluegrass	choke cherry water birch saskatoon Douglas maple red-osier dogwood common hound's-tongue	
ASg2	Pole-Sapling	broad-leaved forest of: trembling aspen common snowberry saskatoon	common hound's-tongue Kentucky bluegrass	91037
ASg3	Young Forests	broad-leaved forest of: trembling aspen common snowberry saskatoon	common hound's-tongue Kentucky bluegrass	
ASg4	Mature Forests	broad-leaved forest of: trembling aspen Nootka rose common snowberry Kentucky bluegrass	choke cherry water birch saskatoon Douglas maple red-osier dogwood common hound's-tongue	
ASg5	Old-Growth	broad-leaved forest of: trembling aspen common snowberry water birch red-osier dogwood	Douglas-fir saskatoon Douglas maple thimbleberry pinegrass	90056 (PPxh1a)
Comments: the old-growth stage may not occur, however these sites may eventually be dominated by Douglas-fir with no disturbance; rich forest floor material of deciduous leaves				

BD	Water Birch - Red-osier dogwood swamp	Biogeoclimatic Unit PPxh1		
Description:				
Map Symbol	Stage	Successional Trends		
		Dominants	Associates	Plots
BD1	Shrub-Herb			
BD2	Pole-Sapling			
BD3	Young Forests			
BD4	Mature Forests			
BD5	Old-Growth	broad-leaved forest of: water birch red-osier dogwood Nootka rose	mountain alder soft-leaved willow black cottonwood stinging nettle	92253

BS	Paper birch - common snowberry moist, gully	Biogeoclimatic Unit PPxh1		
Description: moist, receiving gully areas usually of fluvial materials; rich top layers of soil due to thick deciduous litter				
Map Symbol	Stage	Successional Trends		
		Dominants	Associates	Plots
BS1	Shrub-Herb	dense shrub cover of: Scouler's willow paper birch common snowberry Douglas maple heart-leaved arnica	mountain alder Nootka rose saskatoon thimbleberry showy aster	
BS2	Pole-Sapling	dense broad-leaved forest of: paper birch common snowberry	Douglas-fir ponderosa pine Douglas fir Douglas maple red-osier dogwood	
BS3	Young Forests	dense broad-leaved forest of: paper birch common snowberry	Douglas-fir ponderosa pine Douglas maple red-osier dogwood	92201 91011
BS4	Mature Forests	dense broad-leaved forest of: common snowberry	ponderosa pine Nootka rose saskatoon thimbleberry western larch black cottonwood Douglas maple red-osier dogwood tall oregon grape	90005 91028
BS5	Old-Growth	dense forest of: Douglas-fir common snowberry Douglas maple heart-leaved arnica	paper birch Douglas-fir Nootka rose saskatoon thimbleberry showy aster star-flowered false Solomon's-seal	
Comments: western larch may occur in these units on the east side of Okanagan Valley;				

CD	Black cottonwood - red-osier dogwood floodplain	Biogeoclimatic Unit PPxh1		
Description:				
Map Symbol	Stage	Successional Trends		
		Dominants	Associates	Plots
CD1	Shrub-Herb			
CD2	Pole-Sapling			
CD3	Young Forests			
CD4	Mature Forests	broad-leaved forest of: black cottonwood paper birch red-osier dogwood Douglas maple pink wintergreen	common snowberry thimbleberry red raspberry blue wildrye	92232
CD5	Old-Growth	paper birch red-osier dogwood	black gooseberry	92214
Comments:				

CT	Common cattail marsh	Biogeoclimatic Unit PPxh1		
Description: high water table for most of the year; vegetation is usually partially covered by water				
Map Symbol	Stage	Vegetation		
CT	Edaphic Climax	Dominants	Associates	Plots
		emergent cover of: common cattail great bulrush		
Comments:				

OW	Shallow open water	Biogeoclimatic Unit PPxh1		
Description:				
Map Symbol	Stage	Vegetation		
		Dominants	Associates	Plots
Comments:				

PA	Ponderosa pine - antelope-brush coarse-textured soil		Biogeoclimatic Unit PPxh1
Description: coarse-textured soils of glaciofluvial materials, often with a capping of aeolian sands; occurs on flat to gently sloping areas; rapidly drained, droughty sites			
Map Symbol	Stage	Successional Trends	
		Dominants	Associates
PA1	Shrub-Herb	shrub/steppe of: antelope-brush bluebunch wheatgrass Ponderosa pine diffuse knapweed	red three-awn Sandberg's bluegrass arrow-leaved balsamroot 92203 91002
PA2	Pole-Sapling	open forest of: ponderosa pine bluebunch wheatgrass red three-awn cheatgrass	Douglas-fir compact selaginella antelope brush arrow-leaved balsamroot 91025 91035
PA3	Young Forests	open forest of: ponderosa pine bluebunch wheatgrass red three-awn cheatgrass	Douglas-fir compact selaginella antelope brush arrow-leaved balsamroot
PA4	Mature Forests	open forest of: ponderosa pine antelope-brush bluebunch wheatgrass cheatgrass arrow-leaved balsamroot	Douglas-fir sand dropseed red three-awn timber milk-vetch 92244 92245 91054
PA5	Old-Growth	open forest of: ponderosa pine antelope-brush	saskatoon needle-and-thread grass sand dropseed red three-awn compact selaginella cheatgrass graceful cinquefoil soft brome bluebunch wheatgrass 92245 90077
Comments: early successional stages of this unit has similar range condition classes as the Antelope-brush - needle-and thread grass coarse-textured soils (AN) habitat class			

PB	Ponderosa pine - water birch moist, fan	Biogeoclimatic Unit PPxh1		
Description:				
Map Symbol	Stage	Successional Trends		
		Dominants	Associates	Plots
PB1	Shrub-Herb			
PB2	Pole-Sapling			
PB3	Young Forests			
PB4	Mature Forests			
PB5	Old-Growth	ponderosa pine black cottonwood Wood's rose Kentucky bluegrass kinnikinnick	saskatoon black hawthorn water birch common snowberry red clover nodding onion	90036
Comments:				

PF	Ponderosa pine - Idaho fescue warm aspect, deep soil		Biogeoclimatic Unit PPxh1	
Description: steep, warm, southeast to west aspects; deep soils of various parent materials;				
Map Symbol	Stage	Successional Trends		
		Dominants	Associates	Plots
PF1	Shrub-Herb	grass/steppe of: Idaho fescue bluebunch wheatgrass arrow-leaved balsamroot cheatgrass	big sagebrush prickly phlox sand dropseed red three-awn Sandberg's bluegrass six-weeks fescue sagebrush buttercup	
PF2	Pole-Sapling	parkland forest of: ponderosa pine bluebunch wheatgrass arrow-leaved balsamroot	cheatgrass antelope brush Idaho fescue	91012 92208
PF3	Young Forests	parkland forest of: ponderosa pine bluebunch wheatgrass arrow-leaved balsamroot	cheatgrass antelope brush Idaho fescue	91012 92208
PF4	Mature Forests	parkland forest of: ponderosa pine Idaho fescue bluebunch wheatgrass arrow-leaved balsamroot	Douglas-fir prickly phlox Sandberg's bluegrass six-weeks fescue upland larkspur small-flowered blue-eyed Mary meadow death-camas sagebrush buttercup cheatgrass	
PF5	Old-Growth	parkland forest of: ponderosa pine Idaho fescue	Sandberg's bluegrass small-flowered blue-eyed Mary cheatgrass threetip sagebrush antelope sagebrush arrow-leaved balsamroot bluebunch wheatgrass yarrow long-leaved fleabane	91014 90006
Comments: early stages will have range condition classes similar to the Bluebunch wheatgrass - Sandberg's bluegrass deep soil, warm aspect (WBw) habitat class				

PS	Ponderosa pine - selaginella shallow soil		Biogeoclimatic Unit PPxh1
Description: gentle to moderately sloping areas; shallow (less than one metre) soils of various parent materials over bedrock; droughty sites			
Map Symbol	Stage	Successional Trends	
		Dominants	Associates
PS1	Shrub-Herb	grass/steppe of: saskatoon bluebunch wheatgrass cheatgrass compact selaginella	big sagebrush Idaho fescue Sandberg's bluegrass arrow-leaved balsamroot desert-parsley
PS2	Pole-Sapling	parkland forest of: ponderosa pine saskatoon bluebunch wheatgrass compact selaginella	Douglas-fir big sagebrush Idaho fescue cheatgrass Sandberg's bluegrass arrow-leaved balsamroot desert-parsley
PS3	Young Forests	parkland forest of: ponderosa pine saskatoon bluebunch wheatgrass compact selaginella	Douglas-fir big sagebrush Idaho fescue cheatgrass Sandberg's bluegrass arrow-leaved balsamroot desert-parsley
PS4	Mature Forests	parkland forest of: ponderosa pine saskatoon bluebunch wheatgrass compact selaginella	Douglas-fir big sagebrush Idaho fescue cheatgrass Sandberg's bluegrass arrow-leaved balsamroot desert-parsley
PS5	Old-Growth	parkland forest of: ponderosa pine compact selaginella needle-and-thread grass cheatgrass	Douglas-fir Sandberg's bluegrass six weeks fescue
Comments: early successional stages will have similar range condition classes as the Bluebunch wheatgrass - selaginella shallow soil, cool aspect (WSc) habitat class			

PSc	Ponderosa pine - selaginella shallow soil, cool aspect		Biogeoclimatic Unit PPxh1	
Description: steep, cool, northerly or easterly aspects; shallow (less than one metre) soils of various parent materials over bedrock; droughty sites				
Map Symbol	Stage	Successional Trends		
		Dominants	Associates	Polgon
PSc1	Shrub-Herb	grass/steppe of: saskatoon bluebunch wheatgrass cheatgrass compact selaginella	big sagebrush Idaho fescue Sandberg's bluegrass arrow-leaved balsamroot desert-parsley	
PSc2	Pole-Sapling	parkland forest of: ponderosa pine saskatoon bluebunch wheatgrass compact selaginella	Douglas-fir big sagebrush Idaho fescue cheatgrass Sandberg's bluegrass arrow-leaved balsamroot desert-parsley	
PSc3	Young Forests	parkland forest of: ponderosa pine saskatoon bluebunch wheatgrass compact selaginella	Douglas-fir big sagebrush Idaho fescue cheatgrass Sandberg's bluegrass arrow-leaved balsamroot desert-parsley	
PSc4	Mature Forests	parkland forest of: ponderosa pine saskatoon bluebunch wheatgrass compact selaginella	Douglas-fir big sagebrush Idaho fescue cheatgrass Sandberg's bluegrass arrow-leaved balsamroot desert-parsley	
PSc5	Old-Growth	bluebunch wheatgrass compact selaginella Idaho fescue	Douglas-fir big sagebrush arrow-leaved balsamroot ponderosa pine saskatoon	90016
Comments: early successional stages will have similar range condition classes as the Bluebunch wheatgrass - selaginella shallow soil, cool aspect (WSc) habitat class				

PSw	Ponderosa pine - selaginella shallow soil, warm aspect		Biogeoclimatic Unit PPxh1	
Description: steep, warm southeast to west aspects; shallow (less than one metre) soils of various parent materials over bedrock; droughty sites				
Map Symbol	Stage	Successional Trends		
		Dominants	Associates	Plots
PSw1	Shrub-Herb	grass/steppe of: saskatoon bluebunch wheatgrass cheatgrass compact selaginella	big sagebrush prickly phlox Sandberg's bluegrass arrow-leaved balsamroot desert-parsley	
PSw2	Pole-Sapling	parkland forest of: ponderosa pine bluebunch wheatgrass compact selaginella pinegrass	Douglas-fir Sandberg's bluegrass arrow-leaved balsamroot antelope brush saskatoon common snowberry mock-orange penstemon	91008 90004 91027 91026
PSw3	Young Forests	parkland forest of: ponderosa pine bluebunch wheatgrass compact selaginella pinegrass	Douglas-fir Sandberg's bluegrass arrow-leaved balsamroot antelope brush saskatoon common snowberry mock-orange penstemon	
PSw4	Mature Forests	parkland forest of: ponderosa pine saskatoon bluebunch wheatgrass compact selaginella	Douglas-fir prickly phlox big sagebrush cheatgrass Sandberg's bluegrass arrow-leaved balsamroot desert-parsley	
PSw5	Old-Growth	parkland forest of: ponderosa pine saskatoon bluebunch wheatgrass compact selaginella arrow-leaved balsamroot	Douglas-fir cheatgrass antelope brush common snowberry threetip sagebrush rabbit brush timber milk-vetch	91036 90027 92206 92211 91049

Comments: early successional stages will have similar range condition classes as the Bluebunch wheatgrass - selaginella
shallow soil, warm aspect (WSw) habitat class
Psw3 (Young forest) can be dominated by pinegrass

PW	Ponderosa pine - bluebunch wheatgrass mesic		Biogeoclimatic Unit PPxh1	
Description: steep, cool, northerly or easterly aspects; deep soils of various parent materials;				
Map Symbol	Stage	Successional Trends		
		Dominants	Associates	Plots
PW1	Shrub-Herb	grass/steppe of: snowbrush Idaho fescue	arrow-leaved balsamroot saskatoon silky lupine	91038
PW2	Pole-Sapling	open to parkland forest of: ponderosa pine bluebunch wheatgrass Sandberg's bluegrass	Douglas-fir big sagebrush cheatgrass selaginella arrow-leaved balsamroot Idaho fescue	
PW3	Young Forests	open to parkland forest of: ponderosa pine bluebunch wheatgrass Sandberg's bluegrass	Douglas-fir big sagebrush cheatgrass selaginella arrow-leaved balsamroot Idaho fescue	
PW4	Mature Forests	open to parkland forest of: ponderosa pine bluebunch wheatgrass Sandberg's bluegrass	Douglas-fir big sagebrush cheatgrass selaginella arrow-leaved balsamroot Idaho fescue	
PW5	Old-Growth	open to parkland forest of: ponderosa pine bluebunch wheatgrass	Douglas-fir big sagebrush cheatgrass arrow-leaved balsamroot Idaho fescue saskatoon rough fescue Sandberg's bluegrass	91020 92239 90037
Comments: early successional stages will have range condition classes similar to the Bluebunch wheatgrass - Sandberg's bluegrass deep soil, cool aspect (Wbc) habitat class				

PWc	Ponderosa pine - bluebunch wheatgrass mesic, cool aspect		Biogeoclimatic Unit PPxh1
Description: steep, cool, northerly or easterly aspects; deep soils of various parent materials;			
Map Symbol	Stage	Successional Trends	
		Dominants	Associates
PWc1	Shrub-Herb	grass/steppe of: bluebunch wheatgrass snowbrush saskatoon pinegrass kinnikinick	ponderosa pine Douglas-fir junegrass trembling aspen
PWc2	Pole-Sapling	open to parkland forest of: ponderosa pine rough fescue bluebunch wheatgrass	Douglas-fir squaw current Scouler's Hawkweed
PWc3	Young Forests	open to parkland forest of: ponderosa pine rough fescue bluebunch wheatgrass	Douglas-fir squaw current Scouler's Hawkweed
PWc4	Mature Forests	open to parkland forest of: ponderosa pine Douglas-fir pinegrass	saskatoon choke cherry common snowberry bluebunch wheatgrass fescue penstemon
PWc5	Old-Growth	open to parkland forest of: ponderosa pine bluebunch wheatgrass	Douglas-fir arrow-leaved balsamroot antelope brush pinegrass rough fescue timber milk-vetch
Comments: early successional stages will have range condition classes similar to the Bluebunch wheatgrass - Sandberg's bluegrass deep soil, cool aspect (Wbc) habitat class			

PWf	Ponderosa pine - bluebunch wheatgrass mesic, fan		Biogeoclimatic Unit PPxh1	
Description:				
Map Symbol	Stage	Successional Trends		
		Dominants	Associates	Plots
PWc1	Shrub-Herb	Ponderosa pine bluebunch wheatgrass	Douglas-fir saskatoon umber pussytoes	91001
PWc2	Pole-Sapling	Ponderosa pine bluebunch wheatgrass stiff needle-grass	common snowberry saskatoon big sagebrush rough fescue timber milk-vetch umber pussytoes	91001 92224 92223 91052
PWc3	Young Forests	Ponderosa pine bluebunch wheatgrass stiff needle-grass	common snowberry saskatoon big sagebrush rough fescue timber milk-vetch umber pussytoes	
PWc4	Mature Forests	Ponderosa pine Douglas-fir	common snowberry saskatoon snowbrush birch-leaved spirea bluebunch wheatgrass pinegrass	92207 92251
PWc5	Old-Growth	Ponderosa pine arrow-leaved balsamroot	saskatoon pinegrass timber milk-vetch Meadow death camas	92212
Comments:				

RM	Western redcedar - Douglas maple riparian	Biogeoclimatic Unit PPxh1		
Description:				
Map Symbol	Stage	Successional Trends		
		Dominants	Associates	Plots
RM1	Shrub-Herb			
RM2	Pole-Sapling			
RM3	Young Forests			
RM4	Mature Forests	western redcedar mountain alder Douglas-fir red raspberry common snowberry Douglas maple red-osier dogwood	black cottonwood fringed aster star-flowered Solomon's seal	92248
RM5	Old-Growth			
Comments:				

SB	Silverweed - bulrush meadow	Biogeoclimatic Unit BGxh1		
Description: pondside area subject to high water table for much of the year; very poorly drained lacustrine material				
Map Symbol	Stage	Successional Trends		
		Dominants	Associates	Plots
SB	Edaphic Climax	graminoid-forb cover of: bulrush silverweed	common spike-rush weeping alkaligrass swamp smartweed shore buttercup	
Comments:				

SOc	Saskatoon - mock-orange talus, cool aspect		Biogeoclimatic Unit PPxh1	
Description: steep sites of rubbly or blocky colluvial material at the base of rock outcrops; cool northern and eastern aspect				
Map Symbol	Stage	Successional Trends		
SOc	Edaphic Climax	Dominants	Associates	Plots
		sparse shrub cover of: sumac ocean-spray big sagebrush poison-ivy white clematis	antelope-brush bluebunch wheatgrass cheatgrass Oregon woodsia	
Comments: sparsely vegetated unit often mixed with unvegetated talus				

SOW	Saskatoon - mock-orange talus, warm aspect		Biogeoclimatic Unit PPxh1	
Description: steep sites of rubbly or blocky colluvial material at the base of rock outcrops; southeast to westerly aspect				
Map Symbol	Stage	Successional Trends		
SOW	Edaphic Climax	Dominants	Associates	Plots
		sparse shrub cover of: sumac ocean-spray big sagebrush poison-ivy white clematis	antelope-brush bluebunch wheatgrass cheatgrass Oregon woodsia	
Comments: sparsely vegetated unit often mixed with unvegetated talus				

SN	Big sagebrush - needle-and-thread grass coarse textured soil	Biogeoclimatic Unit PPxh1		
Description:				
Map Symbol	Range condition	Successional Trends		
		Dominants	Associates	Plots
SN:P	Poor			
SN:F	Fair	threetip sagebrush	Sandberg's bluegrass big sagebrush bluebunch bluegrass Kentcky bluegrass	91031
SN:G	Good			
SN:E	Excellent			
Comments:				

SOc	Saskatoon - mock-orange talus, cool aspect	Biogeoclimatic Unit PPxh1		
Description:				
Map Symbol	Stage	Successional Trends		
		Dominants	Associates	Plots
SOc1	Shrub-Herb			
SOc2	Pole-Sapling			
SOc3	Young Forests			
SOc4	Mature Forests			
SOc5	Old-Growth	Douglas-fir common snowberry compact selaginella moss (dicranium)	saskatoon Rocky mountain Juniper bluebunch wheatgrass sagebrush buttercup Rocky mountain woodsia	92204
Comments:				

Sow	Saskatoon - mock-orange talus, cool aspect		Biogeoclimatic Unit PPxh1	
Description:				
Map Symbol	Stage	Successional Trends		
		Dominants	Associates	Plots
SOW1	Shrub-Herb			
SOW2	Pole-Sapling			
SOW3	Young Forests			
SOW4	Mature Forests			
SOW5	Old-Growth	Ponderosa pine saskatoon mock-orange bluebunch wheatgrass compact selaginella	sumac choke cherry shrubby penstemon Douglas maple arrow-leaved balsamroot	92255
Comments:				

SP	Common snowberry - pinegrass moist	Biogeoclimatic Unit PPxh1		
Description: moisture receiving sites in lower slope positions; often gulleys; rich soil				
Map Symbol	Stage	Successional Trends		
		Dominants	Associates	Plots
SP1	Shrub-Herb			
SP2	Pole-Sapling	closed forests of Douglas-fir common snowberry Wood's rose pinegrass	ponderosa pine trembling aspen tall Oregon-grape Douglas maple Kentucky bluegrass	
SP3	Young Forests	closed forests of Douglas-fir common snowberry Wood's rose pinegrass	ponderosa pine trembling aspen tall Oregon-grape Douglas maple Kentucky bluegrass	
SP4	Mature Forests	closed forests of Douglas-fir common snowberry Ponderosa pine	tall Oregon-grape birch-leaved spirea pinegrass	91022
SP5	Old-Growth	closed forests of Douglas-fir common snowberry Wood's rose pinegrass	ponderosa pine trembling aspen tall Oregon-grape Douglas maple Kentucky bluegrass	
Comments:				

SS	Big sagebrush - selaginella very shallow soil	Biogeoclimatic Unit PPxh1		
Description: gentle to moderate sloping areas of very shallow soil over rock outcrops; droughty sites that are rapidly drained				
Map Symbol	Stage	Successional Trends		
		Dominants	Associates	Plots
SS:P	Poor	sparse shrub/steppe of: big sagebrush cheatgrass needle-and-thread grass compact selaginella	rabbit-brush sand dropseed Indian-wheat line-leaved fleabane	
SS:F	Fair	sparse shrub/steppe of: big sagebrush needle-and-thread grass cheatgrass compact selaginella	rabbit-brush sand dropseed bluebunch wheatgrass line-leaved fleabane Sandberg's bluegrass brittle prickly-pear cactus	
SS:G	Good	sparse shrub/steppe of: bluebunch wheatgrass compact selaginella	Ponderosa pine	91021
SS:E	Excellent	sparse shrub/steppe of: big sagebrush bluebunch wheatgrass needle-and-thread grass compact selaginella	rabbit-brush sand dropseed Sandberg's bluegrass line-leaved fleabane cheatgrass brittle prickly-pear cactus	
Comments:				

SWI	Big sagebrush - bluebunch wheatgrass mesic, lacstrine	Biogeoclimatic Unit PPxh1		
Description:				
Map Symbol	Stage	Successional Trends		
		Dominants	Associates	Plots
SWI:P	Poor			
SWI:F	Fair			
SWI:G	Good	bluebunch wheatgrass	long-leaved phlox Ponderosa pine thread-leaved fleabane Columbia bladder-pod	92215
SWIE	Excellent			
Comments:				

WA	Bluebunch wheatgrass - arrow-leaved balsamroot deep soil	Biogeoclimatic Unit PPxh1a		
Description:				
Map Symbol	Stage	Successional Trends		
		Dominants	Associates	Plots
WA:P	poor			
WA:F	fair			
WA:G	good	bluebunch wheatgrass Sandberg;s bluegrass cheatgrass arrow-leaved balsamroot	six-weeks fescue big sagebrush parsnip-flowered buckwheat compact selaginella	90079 90011
WA:E	excellent			
Comments:				

WAc	Bluebunch wheatgrass - arrow-leaved balsamroot deep soil, cool aspect	Biogeoclimatic Unit PPxh1a		
Description: steep, cool, northerly or easterly aspects; deep soils of various parent materials				
Map Symbol	Range Condition	Successional Trends		
		Dominants	Associates	Plots
WAc:P	Poor	shrub/steppe of: big sagebrush cheatgrass Sandberg's bluegrass	needle-and-thread grass six-weeks fescue silky lupine	
WAc:F	Fair	shrub/steppe of: big sagebrush needle-and-thread grass cheatgrass Sandberg's bluegrass	bluebunch wheatgrass six-weeks fescue arrow-leaved balsamroot parsnip-flowered buckwheat silky lupine	
WAc:G	Good	shrub/steppe of: bluebunch wheatgrass Ponderosa pine rough fescue	cheatgrass arrow-leaved balsamroot three-tip sagebrush big sagebrush sand dropseed junegrass diffuse knapweed	92243
WAc:E	Excellent	grass/steppe of: bluebunch wheatgrass threetip sagebrush Idaho fescue	arrow-leaved balsamroot threetip sagebrush junegrass rough fescue silky lupine	92222
Comments:				

WAw	Bluebunch wheatgrass - arrow-leaved balsamroot deep soil, war, aspect	Biogeoclimatic Unit PPxh1a		
Description: steep, warm, southeast to west aspects; deep soils of various parent materials				
Map Symbol	Range Condition	Successional Trends		
		Dominants	Associates	Plots
WAw:P	Poor	shrub/steppe of: big sagebrush cheatgrass Sandberg's bluegrass	prickly phlox needle-and-thread grass six-weeks fescue silky lupine	
WAw:F	Fair	shrub/steppe of: red three-awn diffuse knapweed	Sandberg's bluegrass needle-and-thread grass cheatgrass compact selaginella sand dropseed pasture sage	92241
WAw:G	Good	shrub/steppe of: three-tip sagebrush bluebunch wheatgrass	rabbit brush arrow-leaved balsamroot silky lupine diffuse knapweed cheatgrass brittle prickly-bear cactus	92221
WAw:E	Excellent	grass/steppe of: big sagebrush bluebunch wheatgrass Idaho fescue	arrow-leaved balsamroot junegrass Sandberg's bluegrass low pussytoes	91044
Comments:				

WF	Bluebunch wheatgrass - Idaho fescue coarse-textured soil	Biogeoclimatic Unit PPxh1a and PPxh1		
Description: gentle to moderate sloping areas; coarse-textured soils of glaciofluvial material; rapidly drained soil				
Map Symbol	Range Condition	Successional Trends		
		Dominants	Associates	Plots
WF:P	Poor	shrub/steppe of: big sagebrush cheatgrass Indian-wheat	threetip sagebrush Sandberg's bluegrass needle-and-thread grass six-weeks fescue low pussytoes	
WF:F	Fair	shrub/steppe of: big sagebrush needle-and-thread grass Sandberg's bluegrass	threetip sagebrush bluebunch wheatgrass silky lupine parsnip-flowered buckwheat cheatgrass	90057 90078
WF:G	Good	shrub/steppe of: big sagebrush bluebunch wheatgrass threetip sagebrush	Sandberg's bluegrass pasture sage cheatgrass	91030
WF:E	Excellent	grass/steppe of: bluebunch wheatgrass Idaho fescue big sagebrush	Sandberg's bluegrass threetip sagebrush antelope brush cheatgrass silky lupine compact selaginella	90058 90080
Comments:				

Wff	Bluebunch wheatgrass - Idaho fescue coarse-textured soil, fan	Biogeoclimatic Unit PPxh1a		
Description: gentle to moderate sloping areas; coarse-textured soils of glaciofluvial material; rapidly drained soil				
Map Symbol	Range Condition	Successional Trends		
		Dominants	Associates	Plots
Wff:P	Poor	shrub/steppe of: big sagebrush cheatgrass Indian-wheat	threetip sagebrush Sandberg's bluegrass needle-and-thread grass six-weeks fescue low pussytoes	
Wff:F	Fair	shrub/steppe of: big sagebrush Sandberg's bluegrass	six-weeks fescue sand dropseed needle-and-thread grass cheatgrass Thompson's paintbrush	92237
Wff:G	Good	shrub/steppe of: big sagebrush bluebunch wheatgrass Idaho fescue	threetip sagebrush Sandberg's bluegrass needle-and-thread grass junegrass silky lupine lemonweed moderate cryptogam cover	
Wff:E	Excellent	grass/steppe of: bluebunch wheatgrass Idaho fescue good cryptogam cover	big sagebrush Sandberg's bluegrass junegrass lemonweed	
Comments:				

WJ	Bluebunch wheatgrass - junegrass mesic	Biogeoclimatic Unit PPxh1a		
Description: gentle to moderate sloped areas of morainal material; deep, well drained soil				
Map Symbol	Range Condition	Successional Trends		
		Dominants	Associates	Plots
WJ:P	Poor	shrub/steppe of: big sagebrush cheatgrass Indian-wheat	threetip sagebrush needle-and-thread grass Sandberg's bluegrass six-weeks fescue low pussytoes	
WJ:F	Fair	shrub/steppe of: needle-and-thread grass	threetip sagebrush big sagebrush junegrass mock-orange pasture sage cheatgrass	92250 92247
WJ:G	Good	shrub/steppe of: big sagebrush bluebunch wheatgrass Sandberg's bluegrass	junegrass silky lupine long-leaved phlox slender hawksbeard swale desert-parsley	90055
WJ:E	Excellent	grass/steppe of: bluebunch wheatgrass Idaho fescue good cover of cryptogams	big sagebrush junegrass Sandberg's bluegrass	
Comments:				

WSc	Bluebunch wheatgrass - selaginella shallow soil, cool aspect	Biogeoclimatic Unit PPxh1		
Description: steep, cool, northerly or easterly aspects; shallow (less than one metre) soils of various parent materials over bedrock; droughty sites				
Map Symbol	Stage	Successional Trends		
		Dominants	Associates	Plots
WSc:P	Poor	shrub/steppe of: big sagebrush needle-and-thread grass cheatgrass	rabbit-brush sand dropseed pasture sage compact selaginella bluebunch wheatgrass	
WSc:F	Fair	shrub/steppe of: big sagebrush needle-and-thread grass cheatgrass bluebunch wheatgrass compact selaginella	rabbit-brush sand dropseed Sandberg's bluegrass snow buckwheat pasture sage	
WSc:G	Good	shrub/steppe of: big sagebrush bluebunch wheatgrass compact selaginella	rabbit-brush Sandberg's bluegrass needle-and-thread grass cheatgrass sand dropseed snow buckwheat	
WSc:E	Excellent	shrub/steppe of: big sagebrush bluebunch wheatgrass Sandberg's bluegrass compact selaginella	rabbit-brush needle-and-thread grass cheatgrass sand dropseed snow buckwheat	
Comments:				

WSw	Bluebunch wheatgrass - selaginella shallow soil, warm aspect	Biogeoclimatic Unit PPxh1		
Description: steep, warm southeast to west aspects; shallow (less than one metre) soils of various parent materials over bedrock; droughty sites				
Map Symbol	Stage	Successional Trends		
		Dominants	Associates	Plots
WSw:P	Poor	shrub/steppe of: big sagebrush needle-and-thread grass cheatgrass	rabbit-brush sand dropseed pasture sage compact selaginella bluebunch wheatgrass	
WSw:F	Fair	shrub/steppe of: cheatgrass bluebunch wheatgrass sand dropseed antelope brush	sumac arrow-leaved balsamroot needle-and-thread grass long-leaved phlox	91016 92202
WSw:G	Good	shrub/steppe of: bluebunch wheatgrass arrow-leaved balsamroot	saskatoon birch-leaved spirea Sandberg's bluegrass compact selaginella Idaho fescue junegrass	91034 91043
WSw:E	Excellent	shrub/steppe of: big sagebrush bluebunch wheatgrass Sandberg's bluegrass compact selaginella	rabbit-brush needle-and-thread grass cheatgrass sand dropseed snow buckwheat	
Comments:				

HABITAT CLASSES

OF THE IDFxh1

ASg	Trembling aspen - common snowberry moist, gully		Biogeoclimatic Unit IDFxh1
Description: moist gully areas, sometimes with seasonal creeks; often rich soils due to a buildup of broad-leaved litter; may be steep-sided slopes into the gully;			
Map Symbol	Stage	Successional Trends	
		Dominants	Associates
ASg1	Shrub-Herb	shrub/herb dominated cover of: Nootka rose common snowberry trembling aspen Kentucky bluegrass	choke cherry water birch saskatoon Douglas maple red-osier dogwood common hound's-tongue
ASg2	Pole-Sapling	broad-leaved forest of: trembling aspen common snowberry Douglas maple	92219 Nootka rose mountain sweet-cicely common hound's-tongue blue stickweed Kentucky bluegrass
ASg3	Young Forests	broad-leaved forest of: trembling aspen common snowberry Douglas maple	Nootka rose mountain sweet-cicely common hound's-tongue blue stickweed Kentucky bluegrass bullhead waterleaf western meadowrue
ASg4	Mature Forests	broad-leaved forest of: trembling aspen Nootka rose common snowberry trembling aspen Kentucky bluegrass	choke cherry water birch saskatoon Douglas maple red-osier dogwood common hound's-tongue
ASg5	Old-Growth	closed forest of: Douglas-fir Nootka rose common snowberry trembling aspen Kentucky bluegrass	choke cherry water birch saskatoon Douglas maple red-osier dogwood common hound's-tongue
Comments: the old-growth stage may not occur, however these sites may eventually be dominated by Douglas-fir with no disturbance; rich forest floor material of deciduous leaves			

BS	Paper birch - common snowberry moist, gully	Biogeoclimatic Unit IDFxh1		
Description: moist, receiving gully areas usually of fluvial materials; rich top layers of soil due to thick deciduous litter				
Map Symbol	Stage	Successional Trends		
		Dominants	Associates	Plots
BS1	Shrub-Herb	dense shrub cover of: paper birch Douglas maple red-osier dogwood	showy aster Scouler's willow black gooseberry star-flowered false Solomon's-seal heart-leaved arnica	90070
BS2	Pole-Sapling	dense broad-leaved cover of: paper birch Scouler's willow common snowberry Douglas maple heart-leaved arnica	Douglas-fir ponderosa pine mountain alder Nootka rose saskatoon thimbleberry showy aster	
BS3	Young Forests	dense broad-leaved forest of: paper birch Scouler's willow common snowberry Douglas maple heart-leaved arnica	Douglas-fir ponderosa pine Nootka rose saskatoon thimbleberry showy aster star-flowered false Solomon's-seal	
BS4	Mature Forests	dense broad-leaved forest of: paper birch Douglas-fir common snowberry Douglas maple heart-leaved arnica	ponderosa pine Nootka rose saskatoon thimbleberry showy aster star-flowered false Solomon's-seal	
BS5	Old-Growth	dense forest of: Douglas-fir common snowberry Douglas maple heart-leaved arnica	paper birch Douglas-fir Nootka rose saskatoon thimbleberry showy aster star-flowered false Solomon's-seal	
Comments: western larch may occur in these units on the east side of Okanagan Valley;				

CT	Common cattail marsh	Biogeoclimatic Unit PPxh1		
Description:				
Map Symbol	Stage	Successional Trends		
CT	Edaphic climax	Dominants great bulrush	Associates water birch bluebells bull thistle	Plots 92225
Comments: May be dominated by either cattail or bulrush.				

DP	Douglas-fir - pinegrass mesic	Biogeoclimatic Unit IDFxh1		
Description: gentle to moderate sloped areas of morainal material; deep, well drained soil				
Map Symbol	Stage	Successional Trends		
		Dominants	Associates	Plots
DP1	Shrub-Herb	shrub-herb cover of: redstem ceanothus saskatoon ocean-spray pinegrass bluebunch wheatgrass	common snowberry heart-leaved arnica yarrow Idaho fescue pusseytoes	
DP2	Pole-Sapling	cover of Douglas-fir birch-leaved spirea common snowberry pinegrass	ponderosa pine redstem ceanothus ocean-spray saskatoon showy aster heart-leaved arnica bluebunch wheatgrass	
DP3	Young Forests	closed forests of: Douglas-fir birch-leaved spirea common snowberry pinegrass	ponderosa pine redstem ceanothus ocean-spray saskatoon showy aster heart-leaved arnica bluebunch wheatgrass	
DP4	Mature Forests	closed forests of: Douglas-fir birch-leaved spirea common snowberry pinegrass	ponderosa pine ocean-spray saskatoon showy aster heart-leaved arnica	
DP5	Old-Growth	closed forests of: Douglas-fir birch-leaved spirea pinegrass heart-leaved arnica sakatoon	ponderosa pine common snowberry soopalalie snowbrush dwarf blueberry kinnikinnick	92217 92227
Comments: the understory may be quite sparse in later successional stages				

DPc	Douglas-fir - pinegrass mesic, cool aspect		Biogeoclimatic Unit IDFxh1	
Description: steep, cool, northerly or easterly aspects; usually deep soils of various parent materials				
Map Symbol	Stage	Successional Trends		
		Dominants	Associates	Plots
DPc1	Shrub-Herb	shrub-herb cover of: redstem ceanothus saskatoon ocean-spray pinegrass bluebunch wheatgrass	common snowberry heart-leaved arnica yarrow Idaho fescue pussytoes	
DPc2	Pole-Sapling	cover of Douglas-fir pinegrass	ponderosa pine ocean-spray saskatoon showy aster heart-leaved arnica bluebunch wheatgrass Scouler's willow Rocky mountain woodsia arrow-leaved balsamroot timber milk-vetch	92244 90053 92205
DPc3	Young Forests	cover of Douglas-fir pinegrass bluegrass	ocean-spray saskatoon showy aster birch-leaved spirea Scouler's willow Rocky mountain woodsia	
DPc4	Mature Forests	closed forests of: Douglas-fir birch-leaved spirea common snowberry pinegrass	ponderosa pine ocean-spray saskatoon showy aster heart-leaved arnica	
DPc5	Old-Growth	closed forests of: Douglas-fir common snowberry	ponderosa pine ocean-spray saskatoon showy aster heart-leaved arnica	90025 90050
Comments: the understory may be quite sparse in later successional stages				

DPf	Douglas-fir - pinegrass mesic, fluvial	Biogeoclimatic Unit IDFxh1		
Description: gentle to moderate sloped areas of fluvial material; deep, well drained, coarse-textured soil				
Map Symbol	Stage	Successional Trends		
		Dominants	Associates	Plots
DPf1	Shrub-Herb	shrub-herb cover of: redstem ceanothus saskatoon ocean-spray pinegrass bluebunch wheatgrass	common snowberry heart-leaved arnica yarrow Idaho fescue pusseytoes	
DPf2	Pole-Sapling	cover of Douglas-fir birch-leaved spirea common snowberry pinegrass	ponderosa pine redstem ceanothus ocean-spray saskatoon showy aster heart-leaved arnica bluebunch wheatgrass	
DPf3	Young Forests	closed forests of: Douglas-fir birch-leaved spirea common snowberry pinegrass	ponderosa pine redstem ceanothus ocean-spray saskatoon showy aster heart-leaved arnica bluebunch wheatgrass	
DPf4	Mature Forests	closed forests of: Douglas-fir birch-leaved spirea common snowberry pinegrass	ponderosa pine ocean-spray saskatoon showy aster heart-leaved arnica	
DPf5	Old-Growth	closed forests of: Douglas-fir common snowberry ocean-spray	pinegrass yellow violet	90071
Comments: the understory may be quite sparse in later successional stages				

DWd	Douglas-fir - bluebunch wheatgrass warm aspect, deep soil	Biogeoclimatic Unit IDFxh1		
Description: steep, warm, southeast to west aspects; deep soils of various parent materials;				
Map Symbol	Stage	Successional Trends		
		Dominants	Associates	Plots
DWd1	Shrub-Herb	open forests of: Douglas-fir arrow-leaved balsamroot common snowberry rough fescue	birch-leaved spirea Idaho fescue saskatoon junegrass slender hawksbeard	91042
DWd2	Pole-Sapling	shrub-herb cover of: saskatoon snowbrush bluebunch wheatgrass	arrow-leaved balsmroot parsnip-flowered buckwheat yarrow cheatgrass pussytoes	
DWd3	Young Forests	open forests of: Douglas-fir ponderosa pine saskatoon bluebunch wheatgrass pinegrass	snowbrush birch-leaved spirea arrow-leaved balsmroot parsnip-flowered buckwheat yarrow	
DWd4	Mature Forests	open forests of: Douglas-fir ponderosa pine saskatoon bluebunch wheatgrass pinegrass	snowbrush birch-leaved spirea arrow-leaved balsmroot parsnip-flowered buckwheat yarrow	
DWd5	Old-Growth	open forests of: Douglas-fir ponderosa pine saskatoon bluebunch wheatgrass pinegrass	snowbrush birch-leaved spirea arrow-leaved balsmroot parsnip-flowered buckwheat yarrow	
Comments:				

DWs	Douglas-fir - bluebunch wheatgrass warm aspect, shallow (less than one metre) soil	Biogeoclimatic Unit IDFxh1		
Description: steep, warm, southeast to west aspects; deep soils of various parent materials;				
Map Symbol	Stage	Successional Trends		
		Dominants	Associates	Plots
DWs1	Shrub-Herb	shrub-herb cover of: saskatoon snowbrush bluebunch wheatgrass	mock-orange arrow-leaved balsmroot parsnip-flowered buckwheat silverleaf phacelia cheatgrass pussytoes	
DWs2	Pole-Sapling	open forests of: Douglas-fir ponderosa pine saskatoon bluebunch wheatgrass pinegrass	snowbrush arrow-leaved balsmroot compact selaginella parsnip-flowered buckwheat silverleaf phacelia cheatgrass	
DWs3	Young Forests	open forests of: Douglas-fir ponderosa pine saskatoon bluebunch wheatgrass pinegrass	snowbrush arrow-leaved balsmroot compact selaginella parsnip-flowered buckwheat silverleaf phacelia	
DWs4	Mature Forests	open forests of: Douglas-fir ponderosa pine saskatoon bluebunch wheatgrass pinegrass	snowbrush arrow-leaved balsmroot compact selaginella parsnip-flowered buckwheat silverleaf phacelia	
DWs5	Old-Growth	open forests of: Douglas-fir bluebunch wheatgrass arrow-leaved balsamroot compact selaginella	parsnip-flowered buckwheat umber pussytoes cheatgrass	90026 90069
Comments:				

FW	Idaho fescue - bluebunch wheatgrass steep, warm aspect		Biogeoclimatic Unit IDFxh1	
Description: very steep, warm, southeast to west aspects; deep soils of colluvial material; rapidly drained soils				
Map Symbol	Range Condition	Successional Trends		
		Dominants	Associates	Plots
FW:P	Poor	grass/steppe of: cheatgrass pasture sage	Kentucky bluegrass arrow-leaved balsamroot silky lupine meadow death-camas	
FW:F	Fair	grass/steppe of: Kentucky bluegrass cheatgrass arrow-leaved balsamroot pasture sage	threetip sagebrush Vasey's big sagebrush silky lupine meadow death-camas yarrow	
FW:G	Good	grass/steppe of: Idaho fescue bluebunch wheatgrass junegrass	threetip sagebrush arrow-leaved balsamroot cheatgrass silky lupine meadow death-camas pasture sage	
FW:E	Excellent	grass/steppe of: Idaho fescue bluebunch wheatgrass junegrass	threetip sagebrush arrow-leaved balsamroot cheatgrass silky lupine meadow death-camas	90066
Comments: similar community to South Slope in the Ashnola; check their info Ted				

OW	Shallow open water	Biogeoclimatic Unit IDFxh1		
Description:				
Map Symbol	Stage	Vegetation		
		Dominants	Associates	Polygons
OW				
Comments:				

PS	Ponderosa pine - selaginella shallow soil		Biogeoclimatic Unit PPxh1
Description: gentle to moderately sloping areas; shallow (less than one metre) soils of various parent materials over bedrock; droughty sites			
Map Symbol	Stage	Successional Trends	
		Dominants	Associates
PS1	Shrub-Herb	grass/steppe of: saskatoon bluebunch wheatgrass cheatgrass compact selaginella	big sagebrush Idaho fescue Sandberg's bluegrass arrow-leaved balsamroot desert-parsley
PS2	Pole-Sapling	parkland forest of: ponderosa pine saskatoon bluebunch wheatgrass compact selaginella	Douglas-fir big sagebrush Idaho fescue cheatgrass Sandberg's bluegrass arrow-leaved balsamroot desert-parsley
PS3	Young Forests	parkland forest of: ponderosa pine saskatoon bluebunch wheatgrass compact selaginella	Douglas-fir big sagebrush Idaho fescue cheatgrass Sandberg's bluegrass arrow-leaved balsamroot desert-parsley
PS4	Mature Forests	parkland forest of: ponderosa pine Douglas-fir	arrow-leaved balsamroot bluebunch wheatgrass common juniper pinegrass tall oregon-grape rough fescue birch-leaved spirea
PS5	Old-Growth	parkland forest of: ponderosa pine saskatoon bluebunch wheatgrass compact selaginella	Douglas-fir big sagebrush Idaho fescue cheatgrass Sandberg's bluegrass arrow-leaved balsamroot desert-parsley
Comments: early successional stages will have similar range condition classes as the Bluebunch wheatgrass - selaginella shallow soil, cool aspect (WSc) habitat class			

PSc	Ponderosa pine - selaginella shallow soil, cool aspect		Biogeoclimatic Unit IDFxh1	
Description: steep, cool, northerly or easterly aspects; shallow (less than one metre) soils of various parent materials over bedrock; droughty sites				
Map Symbol	Stage	Successional Trends		
		Dominants	Associates	Plots
PSc1	Shrub-Herb	grass/steppe of: saskatoon bluebunch wheatgrass cheatgrass compact selaginella	big sagebrush Idaho fescue Sandberg's bluegrass arrow-leaved balsamroot desert-parsley	
PSc2	Pole-Sapling	parkland forest of: ponderosa pine saskatoon bluebunch wheatgrass compact selaginella	Douglas-fir big sagebrush Idaho fescue cheatgrass Sandberg's bluegrass arrow-leaved balsamroot desert-parsley	
PSc3	Young Forests	parkland forest of: ponderosa pine saskatoon bluebunch wheatgrass compact selaginella	Douglas-fir big sagebrush Idaho fescue cheatgrass Sandberg's bluegrass arrow-leaved balsamroot desert-parsley	
PSc4	Mature Forests	parkland forest of: ponderosa pine saskatoon bluebunch wheatgrass compact selaginella	Douglas-fir big sagebrush Idaho fescue cheatgrass Sandberg's bluegrass arrow-leaved balsamroot desert-parsley	
PSc5	Old-Growth	parkland forest of: ponderosa pine saskatoon bluebunch wheatgrass compact selaginella	Douglas-fir big sagebrush Idaho fescue cheatgrass Sandberg's bluegrass arrow-leaved balsamroot desert-parsley	
Comments: early successional stages will have similar range condition classes as the Bluebunch wheatgrass - selaginella shallow soil, cool aspect (WSc) habitat class				

PSw	Ponderosa pine - selaginella shallow soil, warm aspect		Biogeoclimatic Unit IDFxh1	
Description: steep, warm southeast to west aspects; shallow (less than one metre) soils of various parent materials over bedrock; droughty sites				
Map Symbol	Stage	Successional Trends		
		Dominants	Associates	Plots
PSw1	Shrub-Herb	grass/steppe of: saskatoon bluebunch wheatgrass cheatgrass compact selaginella	big sagebrush prickly phlox Sandberg's bluegrass arrow-leaved balsamroot desert-parsley	
PSw2	Pole-Sapling	parkland forest of: ponderosa pine saskatoon bluebunch wheatgrass compact selaginella	Douglas-fir prickly phlox big sagebrush cheatgrass Sandberg's bluegrass arrow-leaved balsamroot desert-parsley	
PSw3	Young Forests	parkland forest of: ponderosa pine saskatoon bluebunch wheatgrass compact selaginella	Douglas-fir prickly phlox big sagebrush cheatgrass Sandberg's bluegrass arrow-leaved balsamroot desert-parsley	
PSw4	Mature Forests	parkland forest of: ponderosa pine saskatoon bluebunch wheatgrass compact selaginella	Douglas-fir prickly phlox big sagebrush cheatgrass Sandberg's bluegrass arrow-leaved balsamroot desert-parsley	
PSw5	Old-Growth	parkland forest of: ponderosa pine bluebunch wheatgrass compact selaginella cheatgrass	Douglas-fir common snowberry spreading dogbane	90073 92218
Comments: early successional stages will have similar range condition classes as the Bluebunch wheatgrass - selaginella shallow soil, warm aspect (WSw) habitat class				

SB	Silverweed - bulrush meadow		Biogeoclimatic Unit IDFxh1	
Description: pondside area subject to high water table for much of the year; very poorly drained lacustrine material				
Map Symbol	Stage	Successional Trends		
SB	Edaphic Climax	Dominants	Associates	Plots
		graminoid-forb cover of: bulrush silverweed	common spike-rush weeping alkaligrass swamp smartweed shore buttercup	
Comments:				

SOc	Saskatoon - mock-orange talus, cool aspect		Biogeoclimatic Unit IDFxh1	
Description: steep sites of rubbly or blocky colluvial material at the base of rock outcrops; cool northern and eastern aspect				
Map Symbol	Stage	Successional Trends		
		Dominants	Associates	Plots
SOc	Edaphic Climax	sparse shrub cover of: sumac ocean-spray big sagebrush poison-ivy white clematis	antelope-brush bluebunch wheatgrass cheatgrass Oregon woodsia	
Comments: sparsely vegetated unit often mixed with unvegetated talus				

SOW	Saskatoon - mock-orange talus, warm aspect		Biogeoclimatic Unit IDFxh1	
Description: steep sites of rubbly or blocky colluvial material at the base of rock outcrops; southeast to westerly aspect				
Map Symbol	Stage	Successional Trends		
		Dominants	Associates	Plots
SOW	Edaphic Climax	sparse shrub cover of: sumac ocean-spray big sagebrush poison-ivy white clematis	antelope-brush bluebunch wheatgrass cheatgrass Oregon woodsia	
Comments: sparsely vegetated unit often mixed with unvegetated talus				

SP	Common snowberry - pinegrass moist	Biogeoclimatic Unit IDFxh1		
Description: moisture receiving sites in lower slope positions; often gulleys; rich soil				
Map Symbol	Stage	Successional Trends		
		Dominants	Associates	Plots
SP1	Shrub-Herb			
SP2	Pole-Sapling	closed forests of Douglas-fir common snowberry Wood's rose pinegrass	ponderosa pine trembling aspen tall Oregon-grape Douglas maple Kentucky bluegrass	
SP3	Young Forests	closed forests of Douglas-fir common snowberry Wood's rose pinegrass	ponderosa pine trembling aspen tall Oregon-grape Douglas maple Kentucky bluegrass	
SP4	Mature Forests	closed forests of Douglas-fir common snowberry Wood's rose pinegrass	ponderosa pine trembling aspen tall Oregon-grape Douglas maple Kentucky bluegrass	
SP5	Old-Growth	closed forests of Douglas-fir common snowberry Wood's rose pinegrass	ponderosa pine trembling aspen tall Oregon-grape Douglas maple Kentucky bluegrass	
Comments:				

VKw	Vasey's big sagebrush - Kentucky bluegrass grassland, warm aspect	Biogeoclimatic Unit IDFxh1		
Description:				
Map Symbol	Stage	Successional Trends		
		Dominants	Associates	Plots
VKw:P	Poor			
VKw:F	Fair			
VKw:G	Good			
VKw:E	Excellent			
Comments:				

WA	Bluebunch wheatgrass - arrow-leaved balsamroot deep soil	Biogeoclimatic Unit IDFxl		
Description: steep, cool, northerly or easterly aspects; deep soils of various parent materials				
Map Symbol	Range Condition	Successional Trends		
		Dominants	Associates	Plots
WA:P	Poor			
WA:F	Fair			
WA:G	Good	big sagebrush Sandberg's bluegrass bluebunch wheatgrass cheatgrass	Ponderosa pine saskatoon antelope brush common snowberry arrow-leaved balsamroot silky lupine	90033 90072
WA:E	Excellent			
Comments:				

WAc	Bluebunch wheatgrass - arrow-leaved balsamroot deep soil, cool aspect	Biogeoclimatic Unit IDFxh1		
Description: steep, cool, northerly or easterly aspects; deep soils of various parent materials				
Map Symbol	Range Condition	Successional Trends		
		Dominants	Associates	Plots
WAc:P	Poor	shrub/steppe of: big sagebrush cheatgrass Sandberg's bluegrass	needle-and-thread grass six-weeks fescue silky lupine	
WAc:F	Fair	shrub/steppe of: needle-and-thread grass Bbluebunch wheatgrass junegrass	Douglas-fir pasture sage	92236
WAc:G	Good	shrub/steppe of: big sagebrush bluebunch wheatgrass Sandberg's bluegrass junegrass	needle-and-thread grass Idaho fescue cheatgrass arrow-leaved balsamroot parsnip-flowered buckwheat silky lupine	
WAc:E	Excellent	grass/steppe of: bluebunch wheatgrass Sandberg's bluegrass junegrass	big sagebrush needle-and-thread grass Idaho fescue cheatgrass arrow-leaved balsamroot parsnip-flowered buckwheat	
Comments:				

WAw	Bluebunch wheatgrass - arrow-leaved balsamroot deep soil, war, aspect	Biogeoclimatic Unit IDFxh1		
Description: steep, warm, southeast to west aspects; deep soils of various parent materials				
Map Symbol	Range Condition	Successional Trends		
		Dominants	Associates	Plots
WAw:P	Poor	shrub/steppe of: big sagebrush cheatgrass Sandberg's bluegrass	prickly phlox needle-and-thread grass six-weeks fescue silky lupine	
WAw:F	Fair	shrub/steppe of: big sagebrush needle-and-thread grass cheatgrass Sandberg's bluegrass	prickly phlox bluebunch wheatgrass six-weeks fescue arrow-leaved balsamroot parsnip-flowered buckwheat silky lupine	
WAw:G	Good	shrub/steppe of: big sagebrush bluebunch wheatgrass Sandberg's bluegrass junegrass	prickly phlox needle-and-thread grass Idaho fescue cheatgrass arrow-leaved balsamroot parsnip-flowered buckwheat silky lupine	
WAw:E	Excellent	grass/steppe of: bluebunch wheatgrass big sagebrush Idaho fescue stiff needlegrass	three-tip sagebrush junegrass thread-leaved sedge	92220
Comments:				

WJ	Bluebunch wheatgrass - junegrass mesic	Biogeoclimatic Unit IDFxh1		
Description: gentle to moderate sloped areas of morainal material; deep, well drained soil				
Map Symbol	Range Condition	Successional Trends		
		Dominants	Associates	Plots
WJ:P	Poor	shrub/steppe of: big sagebrush cheatgrass Indian-wheat	threetip sagebrush needle-and-thread grass Sandberg's bluegrass six-weeks fescue low pussytoes	
WJ:F	Fair	shrub/steppe of: big sagebrush needle-and-thread grass Sandberg's bluegrass cheatgrass	threetip sagebrush six-weeks fescue bluebunch wheatgrass Idaho fescue long-leaved phlox silky lupine Indian-wheat	
WJ:G	Good	shrub/steppe of: big sagebrush bluebunch wheatgrass Idaho fescue	threetip sagebrush junegrass Sandberg's bluegrass cheatgrass moderate cryptogam cover	
WJ:E	Excellent	grass/steppe of: bluebunch wheatgrass Idaho fescue good cover of cryptogams	big sagebrush junegrass Sandberg's bluegrass	
Comments:				

HABITAT CLASSES
OF THE IDFdk1

ASg	Trembling aspen - common snowberry moist, gully		Biogeoclimatic Unit IDFdk1	
Description: moist gully areas, sometimes with seasonal creeks; often rich soils due to a buildup of broad-leaved litter; may be steep-sided slopes into the gully;				
Map Symbol	Stage	Successional Trends		
		Dominants	Associates	Plots
ASg1	Shrub-Herb	shrub/herb dominated cover of: Nootka rose common snowberry trembling aspen Kentucky bluegrass	choke cherry water birch saskatoon Douglas maple red-osier dogwood common hound's-tongue	
ASg2	Pole-Sapling	broad-leaved forest of: trembling aspen Nootka rose common snowberry trembling aspen Kentucky bluegrass	choke cherry water birch saskatoon Douglas maple red-osier dogwood common hound's-tongue	
ASg3	Young Forests	broad-leaved forest of: trembling aspen Nootka rose common snowberry trembling aspen Kentucky bluegrass	choke cherry water birch saskatoon Douglas maple red-osier dogwood common hound's-tongue	
ASg4	Mature Forests	broad-leaved forest of: trembling aspen Nootka rose common snowberry trembling aspen Kentucky bluegrass	choke cherry water birch saskatoon Douglas maple red-osier dogwood common hound's-tongue	
ASg5	Old-Growth	closed forest of: Douglas-fir Nootka rose common snowberry trembling aspen Kentucky bluegrass	choke cherry water birch saskatoon Douglas maple red-osier dogwood common hound's-tongue	
Comments: the old-growth stage may not occur, however these sites may eventually be dominated by Douglas-fir with no disturbance; rich forest floor material of deciduous leaves				

DY			Biogeoclimatic Unit	
Description:				
Map Symbol	Stage	Successional Trends		
		Dominants	Associates	Plots
	Shrub-Herb			
	Pole-Sapling			
	Young Forests			
	Mature Forests			
	Old-Growth			
Comments:				

LP			Biogeoclimatic Unit	
Description:				
Map Symbol	Stage	Successional Trends		
		Dominants	Associates	Plots
	Shrub-Herb			
	Pole-Sapling			
	Young Forests			
	Mature Forests			
	Old-Growth			
Comments:				

VKc	Vasey's big sagebrush - Kentucky bluegrass grassland, cool aspect	Biogeoclimatic Unit IDFdk1		
Description:				
Map Symbol	Stage	Successional Trends		
		Dominants	Associates	Plots
	Poor			
	Fair			
	Good			
	Excellent			
Comments:				

VKw	Vasey's big sagebrush - Kentucky bluegrass grassland, warm aspect	Biogeoclimatic Unit IDFdk1		
Description:				
Map Symbol	Stage	Successional Trends		
		Dominants	Associates	Plots
VKw:P	Poor			
VKw:F	Fair			
VKw:G	Good			
VKw:E	Excellent			
Comments:				

HABITAT CLASSES
OF THE MS_{xk}

		Biogeoclimatic Unit		
Description:				
Map Symbol	Stage	Successional Trends		
		Dominants	Associates	Plots
	Shrub-Herb			
	Pole-Sapling			
	Young Forests			
	Mature Forests			
	Old-Growth			
Comments:				

**HABITAT CLASSES OF THE
IDFdm1**

DT	Douglas-fir - twinflower mesic	Biogeoclimatic Unit IDFdm1		
Description:				
Map Symbol	Stage	Successional Trends		
		Dominants	Associates	Plots
DT1	Shrub-Herb			
DT2	Pole-Sapling			
DT3	Young Forests			
DT4	Mature Forests			
DT5	Old-Growth	Douglas-fir Ponderosa pine pinegrass dwarf blueberry	western larch kinnikinnick twinflower timber milk-vetch grouseberry	91040
Comments:				

DTc	Douglas-fir - twinflower mesic, cool aspect	Biogeoclimatic Unit IDFdm1		
Description:				
Map Symbol	Stage	Successional Trends		
		Dominants	Associates	Plots
DTc1	Shrub-Herb			
DTc2	Pole-Sapling	Douglas-fir pinegrass	Ponderosa pine western larch birch-leaved spirea sedge Bebb's willow	
DTc3	Young Forests	Douglas-fir pinegrass	Ponderosa pine western larch birch-leaved spirea sedge Bebb's willow	91041
DTc4	Mature Forests			
DTc5	Old-Growth			
Comments:				

WAw	Bluebunch wheatgrass - arrow-leaved balsamroot deep soil, warm aspect		Biogeoclimatic Unit IDFdm1	
Description:				
Map Symbol	Stage	Successional Trends		
		Dominants	Associates	Plots
WAw:P	Poor			
WAw:F	Fair			
WAw:G	Good			
WAw:E	Excellent	bluebunch wheatgrass Idaho fescue junegrass	Sandberg's bluegrass silky lupine great mullein	91039
Comments:				

		Biogeoclimatic Unit		
Description:				
Map Symbol	Stage	Successional Trends		
		Dominants	Associates	Plots
	Poor			
	Fair			
	Good			
	Excellent			
Comments:				

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		Biogeoclimatic Unit		
Description:				
Map Symbol	Range Condition	Successional Trends		
		Dominants	Associates	Plots
	Poor			
	Fair			
	Good			
	Excellent			
Comments:				

		Biogeoclimatic Unit		
Description:				
Map Symbol	Stage	Successional Trends		
		Dominants	Associates	Plots
	Shrub-Herb			
	Pole-Sapling			
	Young Forests			
	Mature Forests			
	Old-Growth			
Comments:				

		Biogeoclimatic Unit		
Description:				
Map Symbol	Stage	Vegetation		
		Dominants	Associates	Plots
Comments:				

SPECIES LIST: Latin and Vernacular Names of Plant Species referred to in this report

Common name

Latin Name

antelope-brush	Purshia tridentata
arrow-leaved balsam root	Balsamorhiza sagittata
barren vulpia	
Bebb's willow	Salix bebbiana
bentgrass	Agrostis
big sagebrush	Artemisiatridentata
birch-leaved spirea	Spirea betulifolia
bittersweet	Solanum dulcamara
black cottonwood	Populus balsamifera <i>ssp.</i> trichocarpa
black gooseberry	Ribes lacustre
black hawthorn	Crataegus douglasii
blue stickweed	
blue wildrye	Elymus glaucus
bluebells	Mertensia
bluebunch wheatgrass	Agropyron spicatum
bull thistle	Circium vulgare
bullhead waterleaf	Hydrophyllum capitatum
bulrush	Scirpus
Canda thistle	Circium arvense
cheatgrass	Bromus tectorum
choke cherry	Prunus virginiana
Columbia bladder-pod	Lesquerella douglasii
common cattail	Ceanothus sanguineus
common duckweed	Lemna minor
common hound's-tongue	Cynoglossum officinale
common juniper	Juniperus communis
common snowberry	Symphoricarpos albus
common spike-rush	Eleocharis palustris
compact selaginella	Selaginella densa
desert-parsley	Lomatium
diffuse knapweed	Centaurea diffusa
Douglas maple	Acer glabrum
Douglas-fir	Pseudotsuga menziesii
dwarf blueberry	Vaccinium caespitosum
evening primrose	Oenothera
field pussytoes	Antennaria neglecta
graceful cinquefoil	Potentilla gracilis
great bulrush	Scirpus lacustris
great mullein	Verbascum thapsus
grouseberry	Vaccinium scoparium
heart-leaved arnica	Arnica cordifolia
horsetail	Equisetum

Idaho fescue
Indian-wheat
junegrass
Kentucky bluegrass
kinnikinnick
lamb's quarters
lemonweed
line-leaved fleabane
long-leaved fleabane
long-leaved phlox
low pussytoes
meadow death-camas
mock orange
mountain alder
mountain sweet-cicely
needle-and-thread grass
nodding onion
Nootka rose
ocean-spray
Oregon woodsia
paper birch
parsnip-flowered buckwheat
pasture sage
penstemon
pinegrass
pink wintergreen
poison-ivy
ponderosa pine
prickly phlox
prickly-pear cactus
rabbit-brush
red clover
red elderberry
red raspberry
red three-awn
red-osier dogwood
redstem ceanothus
reed canarygrass
ringed aster
Rocky mountain Juniper
rough fescue
rush
sagebrush buttercup
sagebrush mariposa lily
sand dropseed
Sandberg's bluegrass

Festuca Idahoensis
Stipa hymenoides
Koeleria macrantha
Poa pratensis
Arctostaphylos uva-ursi
Chenopodium album
Lithospermum ruderales
Erigeron linearis
Erigeron corymbosus
Phlox longifolia
Antennaria dimorpha
Zigadenus venenosus
Philadelphus lewisii
 Alnus incana *spp.* tenuifolia
 Osmorhiza chilensis
Stipa comata
Allium cernuum
Rosa nutkana
Holodiscus discolor
Woodsia oregana
Betula papyrifera
Eriogonum niveum
Artemisia frigida
Penstemon
Calamagrostis rubescens
Pyrola asarifolia
Toxicodendron rydbergii
Pinus ponderosa
?????????
Opuntia fragilis
Chrysothamnus nauseosus
Trifolium pratense
Sambucus cerulea
Rubus idaeus
Aristida longiseta
Cornus sericea
Ceanothus sanguineus
Phalaris arundinacea
Aster _____
Juniperus sscopulorum
Festuca scabrella
Juncus
Ranunculus glaverrimus
Calaiohortus macrocarpus
Sporobolus cryptandrus
Poa Sandbergii

saskatoon
Scouler's Hawkweed
scouring-rush
shaggy fleabane
shore buttercup
showy aster
shrubby penstemon
silky lupine
silverleaf phacelia
silverweed
six-weeks fescue
slender hawkbeard
small-flowered blue-eyed Mary
snow buckwheat
snowbrush
soft brome
soopalalie
spreading dogbane
squaw currant
star-flowered false Solomon's-seal
stiff needle-grass
stinging nettle
sumac
swale desert-parsley
swamp smartweed
tall Oregon-grape
thimbleberry
thistle
Thompson's paintbrush
thread-leaved phacelia
thread-leaved sedge
three-leaved sedge
three-tip sagebrush
timber milk-vetch
trembling aspen
umber pussytoes
upland larkspur
Vasey's big sagebrush
water birch
weeping alkaligrass
western larch
western meadowrue
western redcedar
wheatgrass
white clematis
willow

Amelanchier anlifolia
Hieracium scouleri
Equisetum _____
Erigeron pumilus
Rannulculus cymbalaria
Aster conspicuus
Penstemon fruticosus
Lupinus sericeus
Phacelia hastata
Potentilla anserina
Vulpia octoflora
Crepis atrabarba
Collinsia parviflora
Erigonum Umbellatum
Ceanothus velutinus
Bromus mollis
Shepherdia canadensis
Apocynum androsaemifolium
Ribes cereum
Smilacina stellata
Stipa occidentalis
Urtica dioica
Rhus glabra
Lomatium ambiguum
Polygonum hydropiperoides
Mahonia aquifolium
Rubus parviflorus
Cirsium
Castilleja thompsonii
Phacelia linearis
Carex filifolia
Carex _____?????
Artemisia tripartita
Astragalus miser
Populus tremuloides
Antennaria umbrinella
Delphinium nuttallianum

Betula occidentalis
Puccinellia distans
Larix occidentalis
Thalictrum occidentale
Thuja plicata
Agropyron
Clematis ligusticifolia
Salix

Wood's rose
yarrow
yellow violet

Rosa woodsii
Achillea millefolium
Viola nuttalli