

Appendix A

Plant association cross-walk to fire regime and landfire groups

ECO CLASS	VEGETATION TYPE COMMON NAME	BLUES FIRE_REGIME	blues bio_setting	landfire code	landfire PNVG
CAEG323	Subalpine fir/Western needlegrass	3	whitebark pine forest	R#SAWD	subalpine woodland
CAF0	Subalpine fir-whitebark pine/Skunk-leaved polemonium	3	whitebark pine forest	R#SAWD	subalpine woodland
CAF2	Subalpine fir-whitebark pine/Fleeceflower	3	whitebark pine forest	R#SAWD	subalpine woodland
CAF322	Whitebark pine/Prickly sandwort	3	whitebark pine forest	R#SAWD	subalpine woodland
CAF323	Whitebark pine/Silvery lupine	3	whitebark pine forest	R#SAWD	subalpine woodland
CAF324	Subalpine fir-whitebark pine/Prickly sandwort	3	whitebark pine forest	R#SAWD	subalpine woodland
CAG111	Subalpine fir/Elk sedge	3	whitebark pine forest	R#SAWD	subalpine woodland
CAG131	Whitebark pine/Elk sedge	3	whitebark pine forest	R#SAWD	subalpine woodland
CAG132	Subalpine fir-whitebark pine/Parry's rush-Lemmon's needlegrass	3	whitebark pine forest	R#SAWD	subalpine woodland
CAG133	Subalpine fir-whitebark pine/Elk sedge	3	whitebark pine forest	R#SAWD	subalpine woodland
CAG221	Whitebark pine/Green fescue	3	whitebark pine forest	R#SAWD	subalpine woodland
CAG222	Subalpine fir-whitebark pine/Green fescue	3	whitebark pine forest	R#SAWD	subalpine woodland
CAG3	Subalpine fir-whitebark pine/Drummond's rush	3	whitebark pine forest	R#SAWD	subalpine woodland
CAS311	Whitebark pine/Grouse huckleberry/Smooth woodrush	3	whitebark pine forest	R#SAWD	subalpine woodland
CAS312	Whitebark pine/Grouse huckleberry/Heartleaf arnica	3	whitebark pine forest	R#SAWD	subalpine woodland
CAS313	Whitebark pine/Grouse huckleberry/Prickly sandwort	3	whitebark pine forest	R#SAWD	subalpine woodland
CAS422	Whitebark pine/Mountain juniper/Pinemat manzanita	3	whitebark pine forest	R#SAWD	subalpine woodland
CAS423	Subalpine fir-whitebark pine/Mountain juniper-Pinemat manzanita	3	whitebark pine forest	R#SAWD	subalpine woodland
CAS424	Subalpine fir-whitebark pine/Mountain juniper	3	whitebark pine forest	R#SAWD	subalpine woodland
CAS511	Limber pine/Mountain juniper	3	whitebark pine forest	R#SAWD	subalpine woodland
CAS512	Whitebark pine/Mountain gooseberry/Skunk-leaved polemonium	3	whitebark pine forest	R#SAWD	subalpine woodland
CAS611	Subalpine fir-whitebark pine/Mountain gooseberry/Skunk-leaved polemonium	3	whitebark pine forest	R#SAWD	subalpine woodland
CAS621	Subalpine fir-whitebark pine/Grouse huckleberry/Hearleaf arnica	3	whitebark pine forest	R#SAWD	subalpine woodland

ECO CLASS	VEGETATION TYPE COMMON NAME	BLUES FIRE_REGIME	blues bio_setting	landfire code	landfire PNVG
CAS622	Subalpine fir-whitebark pine/Grouse huckleberry/Ross' sedge	3	whitebark pine forest	R#SAWD	subalpine woodland
CAS623	Subalpine fir-whitebark pine/Grouse huckleberry/Prickly sandwort	3	whitebark pine forest	R#SAWD	subalpine woodland
CAS624	Subalpine fir-whitebark pine/Grouse huckleberry-Pink mountain heather	3	whitebark pine forest	R#SAWD	subalpine woodland
CAS625	Subalpine fir-whitebark pine/Grouse huckleberry/Green fescue	3	whitebark pine forest	R#SAWD	subalpine woodland
CAS626	Subalpine fir-whitebark pine/Grouse huckleberry/Little ricegrass	3	whitebark pine forest	R#SAWD	subalpine woodland
CAS627	Subalpine fir-whitebark pine/Grouse huckleberry/Wallowa lewisia	3	whitebark pine forest	R#SAWD	subalpine woodland
CAS628	Subalpine fir-whitebark pine/Grouse huckleberry/Pink mountain heather (avalanche)	3	whitebark pine forest	R#SAWD	subalpine woodland
CAS629	Subalpine fir-whitebark pine/Grouse huckleberry/Green fescue (avalanche)	3	whitebark pine forest	R#SAWD	subalpine woodland
CDF313	Douglas-fir/False bugbane	4	warm_hot riparian forest	R#MCONms	mixed conifer - eastside mesic
CDG111	Douglas-fir/Elk sedge	1	dry Douglas-fir forest	R#MCONdy	mixed conifer- eastside dry
CDG112	Douglas-fir/pinegrass	1	dry Douglas-fir forest	R#MCONdy	mixed conifer- eastside dry
CDG121	Douglas-fir/Pinegrass	1	dry Douglas-fir forest	R#MCONdy	mixed conifer- eastside dry
CDG333	Douglas-fir-Ponderosa pine-Western juniper/Idaho fescue	1	dry Douglas-fir forest	R#MCONdy	mixed conifer- eastside dry
CDS611	Douglas-fir/Oceanspray	3	moist forest	R#MCONms	mixed conifer - eastside mesic
CDS622	Douglas-fir/Common snowberry	1	dry Douglas-fir forest	R#MCONdy	mixed conifer- eastside dry
CDS623	Douglas-fir/mountain snowberry	1	dry Douglas-fir forest	R#MCONdy	mixed conifer- eastside dry
CDS624	Douglas-fir/common snowberry	1	dry Douglas-fir forest	R#MCONdy	mixed conifer- eastside dry
CDS625	Douglas-fir/Mountain snowberry	1	dry Douglas-fir forest	R#MCONdy	mixed conifer- eastside dry
CDS628	Douglas-fir/Common snowberry (floodplain)	1	warm_hot riparian forest	R#MCONms	mixed conifer - eastside mesic
CDS634	Douglas-fir/Birchleaf spiraea	1	dry Douglas-fir forest	R#MCONdy	mixed conifer- eastside dry
CDS642	Douglas-fir/Mountain snowberry/Elk sedge	1	dry Douglas-fir forest	R#MCONdy	mixed conifer- eastside dry
CDS664	Douglas-fir/Pinemat manzanite/Elk sedge	1	dry Douglas-fir forest	R#MCONdy	mixed conifer- eastside dry
CDS711	Douglas-fir/Ninebark	1	dry Douglas-fir forest	R#MCONdy	mixed conifer- eastside dry
CDS722	Douglas-fir/Rocky Mountain maple-mallow ninebark	3	moist forest	R#MCONms	mixed conifer - eastside mesic
CDS724	Douglas-fir/Rocky Mountain maple-mallow ninebark (floodplain)	4	warm_hot riparian forest	R#MCONms	mixed conifer - eastside mesic

ECO CLASS	VEGETATION TYPE COMMON NAME	BLUES FIRE_REGIME	blues bio_setting	landfire code	landfire PNVG
CDS725	Douglas-fir/Rocky Mountain maple-Mountain snowberry	3	moist forest	R#MCONms	mixed conifer - eastside mesic
CDS812	Douglas-fir/Big huckleberry	1	dry Douglas-fir forest	R#MCONdy	mixed conifer- eastside dry
CDS821	Douglas-fir/big huckleberry	1	dry Douglas-fir forest	R#MCONdy	mixed conifer- eastside dry
CDS911	Douglas-fir/Mountain gooseberry/Skunk-leaved polemonium	4	cold forest	R#SPFI	spruce - fir
CSDSD	Douglas-fir/Mountain mahogany/Elk sedge	1	dry Douglas-fir forest	R#MCONdy	mixed conifer- eastside dry
CEF111	Subalpine fir/Beargrass	4	cold forest	R#SPFI	spruce - fir
CEF2	Subalpine fir-Englemann spruce/Twinflower	4	cold forest	R#SPFI	spruce - fir
CEF221	subalpine fir/twinflower	4	cold forest	R#SPFI	spruce - fir
CEF311	Subalpine fir/Twisted stalk	4	cold forest	R#SPFI	spruce - fir
CEF331	Subalpine fir/False bugbane	4	cold forest	R#SPFI	spruce - fir
CEF332	Subalpine fir/Ladyfern	4	cool_cold riparian forest	R#SPFI	spruce - fir
CEF333	Subalpine fir/Arrowleaf groundsel	4	cool_cold riparian forest	R#SPFI	spruce - fir
CEF334	Engelmann spruce/Ladyfern	4	cool_cold riparian forest	R#SPFI	spruce - fir
CEF335	Engelmann spruce/Arrowleaf groundsel	4	cool_cold riparian forest	R#SPFI	spruce - fir
CEF336	Subalpine fir-Englemann spruce/Arrowleaf groundsel	4	cold forest	R#SPFI	spruce - fir
CEF411	Subalpine fir/Skunk-leaved polemonium	4	cold forest	R#SPFI	spruce - fir
CEF412	Subalpine fir/Heartleaf arnica	4	cold forest	R#SPFI	spruce - fir
CEF425	Subalpine fir-Englemann spruce/False bugbane	4	cold forest	R#SPFI	spruce - fir
CEF426	Subalpine fir-Englemann spruce/Skunk-leaved polemonium	4	cold forest	R#SPFI	spruce - fir
CEF435	Subalpine fir/Heartleaf arnica	4	cold forest	R#SPFI	spruce - fir
CEF436	Subalpine fir-Englemann spruce/Heartleaf arnica	4	cold forest	R#SPFI	spruce - fir
CEF437	Subalpine fir-Englemann spruce/Queen's cup beadlily	4	cold forest	R#SPFI	spruce - fir
CEF511	Subalpine fir/Alpine fleecflower	4	cold forest	R#SPFI	spruce - fir
CEG131	Subalpine fir-Englemann spruce/Smooth woodrush	4	cold forest	R#SPFI	spruce - fir
CEG201	Engelmann spruce-subalpine fir/Holm's Rocky Mountain sedge	4	cool_cold riparian forest	R#SPFI	spruce - fir
CEG312	Subalpine fir/Pinegrass	4	cold forest	R#SPFI	spruce - fir
CEG323	subalpine fir/western needlegrass	4	cold forest	R#SPFI	spruce - fir
CEG411	Subalpine fir/Green fescue (avalanche)	4	cold forest	R#SPFI	spruce - fir
CEG412	Subalpine fir/Drummond's rush	4	cold forest	R#SPFI	spruce - fir
CEG413	Subalpine fir/Slender rush	4	cold forest	R#SPFI	spruce - fir

ECO CLASS	VEGETATION TYPE COMMON NAME	BLUES FIRE_REGIME	blues bio_setting	landfire code	landfire PNVG
CEG414	Subalpine fir/Parry's rush (avalanche)	4	cold forest	R#SPFI	spruce - fir
CEM121	Engelmann spruce/Softleaved sedge	4	cool_cold riparian forest	R#SPFI	spruce - fir
CEM122	Subalpine fir/Softleaved sedge	4	cool_cold riparian forest	R#SPFI	spruce - fir
CEM123	Subalpine fir/Aquatic sedge	4	cool_cold riparian forest	R#SPFI	spruce - fir
CEM124	Subalpine fir/Bluejoint reedgrass	4	cool_cold riparian forest	R#SPFI	spruce - fir
CEM125	Engelmann spruce/Columbia brome	4	cool_cold riparian forest	R#SPFI	spruce - fir
CEM126	Engelmann spruce/Drooping woodreed	4	cool_cold riparian forest	R#SPFI	spruce - fir
CEM201	Engelmann spruce-subalpine fir/arrowleaf groundsel	4	cool_cold riparian forest	R#SPFI	spruce - fir
CEM211	Engelmann spruce/Common horsetail	4	cool_cold riparian forest	R#SPFI	spruce - fir
CEM313	Subalpine fir/Bog blueberry/Holm's sedge	4	cool_cold riparian forest	R#SPFI	spruce - fir
CES131	Subalpine fir/Queencup beadlily	4	cold forest	R#SPFI	spruce - fir
CES2	Subalpine fir-Englemann spruce/Fool's huckleberry	4	cold forest	R#SPFI	spruce - fir
CES214	Subalpine fir/White rhododendron	4	cold forest	R#SPFI	spruce - fir
CES215	Subalpine fir-Englemann spruce/White rhododendron	4	cold forest	R#SPFI	spruce - fir
CES221	Subalpine fir/Fool's huckleberry	4	cold forest	R#SPFI	spruce - fir
CES311	Subalpine fir/Big huckleberry	4	cold forest	R#SPFI	spruce - fir
CES314	subalpine fir/queencup beadlily	4	cold forest	R#SPFI	spruce - fir
CES315	subalpine fir/big huckleberry	4	cold forest	R#SPFI	spruce - fir
CES316	subalpine fir/big huckleberry (floodplain)	4	cool_cold riparian forest	R#SPFI	spruce - fir
CES411	Subalpine fir/Grouse huckleberry	4	cold forest	R#SPFI	spruce - fir
CES414	Subalpine fir/Twinflower	4	cold forest	R#SPFI	spruce - fir
CES415	Subalpine fir/Grouse huckleberry/Skunkleaved polemonium	4	cold forest	R#SPFI	spruce - fir
CES427	Subalpine fir-Englemann spruce/Grouse huckleberry-Pink mountain heath	4	cold forest	R#SPFI	spruce - fir
CES428	Subalpine fir/Grouse huckleberry-Pink mountain heather	4	cold forest	R#SPFI	spruce - fir
CES429	Subalpine fir/Pinemat manzanita/Prickly sandwort	4	cold forest	R#SPFI	spruce - fir
CES511	Engelmann spruce/Redosier dogwood	4	cool_cold riparian forest	R#SPFI	spruce - fir
CES610	subalpine fir-Englemann spruce/Labrador tea (floodplain)	4	cool_cold riparian forest	R#SPFI	spruce - fir
CES612	Subalpine fir-Englemann spruce/Labrador tea	4	cold forest	R#SPFI	spruce - fir
CES710	subalpine fir-Englemann spruce/rusty menziesia (floodplain)	4	cool_cold riparian forest	R#SPFI	spruce - fir

ECO CLASS	VEGETATION TYPE COMMON NAME	BLUES FIRE_REGIME	blues bio_setting	landfire code	landfire PNVG
CES8	Subalpine fir-Western white pine/Prince's pine	4	cold forest	R#SPFI	spruce - fir
CJC1	Mountain juniper	2	moist shrubland	R#SBMT	mountain big sagebrush
CJG111	Western juniper/Idaho fescue-bluebunch wheatgrass	3	juniper woodland	R#PIPOxe	ponderosa pine - xeric
CJG113	western juniper/bluebunch wheatgrass	3	juniper woodland	R#PIPOxe	ponderosa pine - xeric
CJS1	Western juniper/Low sagebrush	3	juniper woodland	R#PIPOxe	ponderosa pine - xeric
CJS111	western juniper/low sagebrush	3	juniper woodland	R#PIPOxe	ponderosa pine - xeric
CJS112	western juniper/low sagebrush/Idaho fescue	3	juniper woodland	R#PIPOxe	ponderosa pine - xeric
CJS2	Western juniper/Mountain big sagebrush	3	juniper woodland	R#PIPOxe	ponderosa pine - xeric
CJS211	Western juniper/Mountain big sagebrush/Idaho fescue-bluebunch wheatgrass	3	juniper woodland	R#PIPOxe	ponderosa pine - xeric
CJS321	Western juniper/Bitterbrush/Idaho fescue-bluebunch wheatgrass	3	juniper woodland	R#PIPOxe	ponderosa pine - xeric
CJS41	Western juniper/Mountain mahogany/Idaho fescue-bluebunch wheatgrass	3	juniper woodland	R#PIPOxe	ponderosa pine - xeric
CJS42	Western juniper/Mountain mahogany/Elk sedge	3	juniper woodland	R#PIPOxe	ponderosa pine - xeric
CJS5	Rocky Mountain juniper-Curleaf mountain mahogany	1	dry ponderosa pine forest	R#PIPOM	dry ponderosa pine-mesic
CJS8	Western juniper/Stiff sagebrush	3	juniper woodland	R#PIPOxe	ponderosa pine - xeric
CJS811	western juniper/stiff sagebrush (scabland)	3	juniper woodland	R#PIPOxe	ponderosa pine - xeric
CLF211	Lodgepole pine(grand fir)/Twinflower	3	moist forest	R#MCONms	mixed conifer - eastside mesic
CLG11	Lodgepole pine(subalpine fir)/Western needlegrass	4	cold forest	R#SPFI	spruce - fir
CLG21	Lodgepole pine(grand fir)/Pinegrass	3	moist forest	R#MCONms	mixed conifer - eastside mesic
CLG211	lodgepole pine(grand fir)/grouse huckleberry/pinegrass	3	moist forest	R#MCONms	mixed conifer - eastside mesic
CLG322	Lodgepole pine(subalpine fir)/Elk sedge	4	cold forest	R#SPFI	spruce - fir
CLM112	Lodgepole pine/Kentucky bluegrass	4	cool_cold riparian forest	R#SPFI	spruce - fir
CLM114	Lodgepole pine/Aquatic sedge	4	cool_cold riparian forest	R#SPFI	spruce - fir
CLM115	Lodgepole pine/Tufted hairgrass	4	cool_cold riparian forest	R#SPFI	spruce - fir
CLM116	Lodgepole pine/Woolly sedge	4	cool_cold riparian forest	R#SPFI	spruce - fir
CLM117	Lodgepole pine/Bluejoint reedgrass	4	cool_cold riparian forest	R#SPFI	spruce - fir

ECO CLASS	VEGETATION TYPE COMMON NAME	BLUES FIRE_REGIME	blues bio_setting	landfire code	landfire PNVG
CLM118	lodgepole pine/Holm's Rocky Mountain sedge	4	cool_cold riparian forest	R#SPFI	spruce - fir
CLM511	Lodgepole pine/Mountain alder/Mesic forb	4	cool_cold riparian forest	R#SPFI	spruce - fir
CLS411	lodgepole pine(subalpine fir)/grouse huckleberry	4	cold forest	R#SPFI	spruce - fir
CLS415	Lodgepole pine(subalpine fir)/Grouse huckleberry/Skunkleaved polemonium	4	cold forest	R#SPFI	spruce - fir
CLS416	Lodgepole pine/Pinegrass	3	moist forest	R#MCONms	mixed conifer - eastside mesic
CLS417	Lodgepole pine(grand fir)/Grouse huckleberry/Pinegrass	3	moist forest	R#MCONms	mixed conifer - eastside mesic
CLS418	Lodgepole pine(subalpine fir)/Grouse huckleberry	4	cold forest	R#SPFI	spruce - fir
CLS5	Lodgepole pine(grand fir)/Big huckleberry/Twinflower	3	moist forest	R#MCONms	mixed conifer - eastside mesic
CLS511	lodgepole pine/big huckleberry	3	moist forest	R#MCONms	mixed conifer - eastside mesic
CLS512	Lodgepole pine(grand fir)/Big huckleberry/Pinegrass	3	moist forest	R#MCONms	mixed conifer - eastside mesic
CLS513	Lodgepole pine(grand fir)/Big huckleberry	3	moist forest	R#MCONms	mixed conifer - eastside mesic
CLS514	Lodgepole pine(subalpine fir)/Big huckleberry	4	cold forest	R#SPFI	spruce - fir
CLS515	lodgepole pine(subalpine fir)/big huckleberry	4	cold forest	R#SPFI	spruce - fir
CLS516	Lodgepole pine(subalpine fir)/Big huckleberry/Pinegrass	4	cold forest	R#SPFI	spruce - fir
CLS519	Lodgepole pine(grand fir)/Big huckleberry/Bracken	3	moist forest	R#MCONms	mixed conifer - eastside mesic
CLS57	Lodgepole pine(grand fir)/Pinemat manzanita	3	moist forest	R#MCONms	mixed conifer - eastside mesic
CLS58	Lodgepole pine(grand fir)/Sitka alder	3	moist forest	R#MCONms	mixed conifer - eastside mesic
CMS131	Mountain hemlock/Grouse huckleberry	4	cold forest	R#SPFI	spruce - fir
CMS231	Mountain hemlock/Big huckleberry	4	cold forest	R#SPFI	spruce - fir
CPC212	ponderosa pine-western juniper/mountain mahogany-mountain snowberry	1	hot dry pine forest	R#PIPOxe	ponderosa pine - xeric
CPG111	Ponderosa pine/Bluebunch wheatgrass	1	hot dry pine forest	R#PIPOxe	ponderosa pine - xeric
CPG112	Ponderosa pine/Idaho fescue	1	hot dry pine forest	R#PIPOxe	ponderosa pine - xeric
CPG131	ponderosa pine/Idaho fescue	1	hot dry pine forest	R#PIPOxe	ponderosa pine - xeric
CPG132	ponderosa pine/bluebunch wheatgrass	1	hot dry pine forest	R#PIPOxe	ponderosa pine - xeric
CPG221	Ponderosa pine/Pinegrass	1	dry ponderosa pine forest	R#PIPOM	dry ponderosa pine-mesic

ECO CLASS	VEGETATION TYPE COMMON NAME	BLUES FIRE_REGIME	blues bio_setting	landfire code	landfire PNVG
CPG222	Ponderosa pine/Elk sedge	1	dry ponderosa pine forest	R#PIPOM	dry ponderosa pine-mesic
CPM111	Ponderosa pine/Blue wildrye	1	dry ponderosa pine forest	R#PIPOM	dry ponderosa pine-mesic
CPM112	Ponderosa pine/Kentucky bluegrass	1	warm_hot riparian forest	R#MCONms	mixed conifer - eastside mesic
CPS131	Ponderosa pine/Mountain big sagebrush/Idaho fescue-bluebunch wheatgrass	1	hot dry pine forest	R#PIPOxe	ponderosa pine - xeric
CPS132	Ponderosa pine/Mountain big sagebrush/Elk sedge	1	hot dry pine forest	R#PIPOxe	ponderosa pine - xeric
CPS221	Ponderosa pine/Bitterbrush/Ross sedge	1	dry ponderosa pine forest	R#PIPOM	dry ponderosa pine-mesic
CPS222	Ponderosa pine/Bitterbrush/Elk sedge	1	dry ponderosa pine forest	R#PIPOM	dry ponderosa pine-mesic
CPS226	Ponderosa pine/Bitterbrush/Idaho fescue-bluebunch wheatgrass	1	hot dry pine forest	R#PIPOxe	ponderosa pine - xeric
CPS229	ponderosa pine/bitterbrush/bluebunch wheatgrass-Sandberg's bluegrass	1	hot dry pine forest	R#PIPOxe	ponderosa pine - xeric
CPS231	Ponderosa pine/Bitterbrush/Bluebunch wheatgrass	1	hot dry pine forest	R#PIPOxe	ponderosa pine - xeric
CPS232	Ponderosa pine/Mountain mahogany/Elk sedge	1	dry ponderosa pine forest	R#PIPOM	dry ponderosa pine-mesic
CPS233	Ponderosa pine/Mountain mahogany/Wheeler's bluegrass	1	hot dry pine forest	R#PIPOxe	ponderosa pine - xeric
CPS234	Ponderosa pine/Mountain mahogany/Idaho fescue-bluebunch wheatgrass	1	hot dry pine forest	R#PIPOxe	ponderosa pine - xeric
CPS511	Ponderosa pine/Common snowberry (floodplain)	1	warm_hot riparian forest	R#MCONms	mixed conifer - eastside mesic
CPS522	Ponderosa pine/Common snowberry	1	dry ponderosa pine forest	R#PIPOM	dry ponderosa pine-mesic
CPS523	Ponderosa pine/Birchleaf spiraea	1	dry ponderosa pine forest	R#PIPOM	dry ponderosa pine-mesic
CPS524	ponderosa pine/common snowberry	1	dry ponderosa pine forest	R#PIPOM	dry ponderosa pine-mesic
CPS525	Ponderosa pine/Mountain snowberry	1	dry ponderosa pine forest	R#PIPOM	dry ponderosa pine-mesic
CPS61	Ponderosa pine/Low sagebrush	1	hot dry pine forest	R#PIPOxe	ponderosa pine - xeric
CPS722	ponderosa pine/black hawthorn	1	warm_hot riparian forest	R#MCONms	mixed conifer - eastside mesic
CPS8	Ponderosa pine/Squaw apple	1	hot dry pine forest	R#PIPOxe	ponderosa pine - xeric
CPS9	Ponderosa pine/Sumac	1	hot dry pine forest	R#PIPOxe	ponderosa pine - xeric
CQM111	Western white pine/Tufted hairgrass	4	warm_hot riparian forest	R#MCONms	mixed conifer - eastside mesic
CWC811	Grand fir/Pacific yew/Queencup beadlily	3	moist forest	R#MCONms	mixed conifer - eastside mesic

ECO CLASS	VEGETATION TYPE COMMON NAME	BLUES FIRE_REGIME	blues bio_setting	landfire code	landfire PNVG
CWC812	Grand fir/Pacific yew/Twinflower	3	moist forest	R#MCONms	mixed conifer - eastside mesic
CWF311	Grand fir/Twinflower	3	moist forest	R#MCONms	mixed conifer - eastside mesic
CWF312	grand fir/twinflower	3	moist forest	R#MCONms	mixed conifer - eastside mesic
CWF421	Grand fir/Queencup beadlily	3	moist forest	R#MCONms	mixed conifer - eastside mesic
CWF422	grand fir/Pacific yew/queencup beadlily	3	moist forest	R#MCONms	mixed conifer - eastside mesic
CWF424	grand fir/Pacific yew/twinflower (floodplain)	4	warm_hot riparian forest	R#MCONms	mixed conifer - eastside mesic
CWF444	Grand fir/Heartleaf arnica	3	moist forest	R#MCONms	mixed conifer - eastside mesic
CWF511	Grand fir/Goldthread	3	moist forest	R#MCONms	mixed conifer - eastside mesic
CWF512	Grand fir/False bugbane	3	moist forest	R#MCONms	mixed conifer - eastside mesic
CWF611	Grand fir/Oakfern	3	moist forest	R#MCONms	mixed conifer - eastside mesic
CWF612	Grand fir/Sword fern-ginger	3	moist forest	R#MCONms	mixed conifer - eastside mesic
CWF613	Grand fir/Ladyfern	4	warm_hot riparian forest	R#MCONms	mixed conifer - eastside mesic
CWG111	Grand fir/Elk sedge	1	dry grand fir forest	R#MCONdy	mixed conifer-eastside dry
CWG112	Grand fir/Pinegrass	1	dry grand fir forest	R#MCONdy	mixed conifer-eastside dry
CWG113	grand fir/pinegrass	1	dry grand fir forest	R#MCONdy	mixed conifer-eastside dry
CWG211	Grand fir/Columbia brome	3	moist forest	R#MCONms	mixed conifer - eastside mesic
CWM311	Grand fir/Woolly sedge	4	warm_hot riparian forest	R#MCONms	mixed conifer - eastside mesic
CWS211	Grand fir/Big huckleberry	3	moist forest	R#MCONms	mixed conifer - eastside mesic
CWS212	grand fir/big huckleberry	3	moist forest	R#MCONms	mixed conifer - eastside mesic
CWS232	Grand fir-Alaska yellow cedar/Big huckleberry	3	moist forest	R#MCONms	mixed conifer - eastside mesic
CWS314	Grand fir/Common snowberry (floodplain)	1	warm_hot riparian forest	R#MCONms	mixed conifer - eastside mesic
CWS321	Grand fir/Birchleaf spiraea	1	dry grand fir forest	R#MCONdy	mixed conifer-eastside dry
CWS322	grand fir/birchleaf spiraea	1	dry grand fir forest	R#MCONdy	mixed conifer-eastside dry
CWS412	Grand fir/Rocky Mountain maple-ninebark	3	moist forest	R#MCONms	mixed conifer - eastside mesic
CWS423	grand fir/black hawthorn/Dewey's sedge	4	warm_hot riparian forest	R#MCONms	mixed conifer - eastside mesic
CWS541	grand fir/Rocky Mountain maple	3	moist forest	R#MCONms	mixed conifer - eastside mesic

ECO CLASS	VEGETATION TYPE COMMON NAME	BLUES FIRE_REGIME	blues bio_setting	landfire code	landfire PNVG
CWS543	Grand fir/Rocky Mountain maple (floodplain)	4	warm_hot riparian forest	R#MCONms	mixed conifer - eastside mesic
CWS811	Grand fir/Grouse huckleberry	3	moist forest	R#MCONms	mixed conifer - eastside mesic
CWS812	Grand fir/Grouse huckleberry-twinflower	3	moist forest	R#MCONms	mixed conifer - eastside mesic
CWS912	Grand fir/Rocky Mountain maple	3	moist forest	R#MCONms	mixed conifer - eastside mesic
FM9111	Douglas buckwheat/Sandberg's bluegrass	2	dry herbland	R#AGSP	bluebunch wheatgrass
FM9112	Strict buckwheat/Sandberg's bluegrass	2	dry herbland	R#AGSP	bluebunch wheatgrass
FM9113	Sulphurflower (ridge)	2	dry herbland	R#AGSP	bluebunch wheatgrass
FS1113	Linanthastrum-Cymopterus	4	cold herbland	R#ALME	alpine-subalpine meadows and grasslands
FS5912	Alpine fleecflower-Green fescue	4	cold herbland	R#ALME	alpine-subalpine meadows and grasslands
FS5913	Alpine fleecflower-Pinegrass-Elk sedge	4	cold herbland	R#ALME	alpine-subalpine meadows and grasslands
FS5914	Alpine fleecflower-Elk sedge-Linanthastrum	4	cold herbland	R#ALME	alpine-subalpine meadows and grasslands
FS5915	Alpine fleecflower-Horsemint-Linanthastrum	4	cold herbland	R#ALME	alpine-subalpine meadows and grasslands
FS5916	Alpine fleecflower (cornices)	4	cold herbland	R#ALME	alpine-subalpine meadows and grasslands
FS80	Linanthastrum-Mountain mugwort	4	cold herbland	R#ALME	alpine-subalpine meadows and grasslands
FS81	Western coneflower-Tarweed	2	cool herbland	R#MGRA	idaho fescue grasslands
FS8101	western coneflower	2	cool herbland	R#MGRA	idaho fescue grasslands
FS8111	Bracken fern-Hood's sedge	2	cool herbland	R#MGRA	idaho fescue grasslands
FS8112	Mountain balm	4	cold herbland	R#ALME	alpine-subalpine meadows and grasslands
FS8113	Pygmy lewisia-Tarweed	2	cool herbland	R#MGRA	idaho fescue grasslands
FS8115	Linanthastrum-Longleaf arnica	2	cool herbland	R#MGRA	idaho fescue grasslands
FS8116	Golden buckwheat-Coiled parrot's beak	4	cold herbland	R#ALME	alpine-subalpine meadows and grasslands

ECO CLASS	VEGETATION TYPE COMMON NAME	BLUES FIRE_REGIME	blues bio_setting	landfire code	landfire PNVG
FS8117	Phlox-Cymopteris	5	cold herbland	R#ALME	alpine-subalpine meadows and grasslands
FS8118	Phlox-lvesia	5	cold herbland	R#ALME	alpine-subalpine meadows and grasslands
FS90	Scree	5	cold herbland	R#ALME	alpine-subalpine meadows and grasslands
FS91	Rock outcrop	5	cold herbland	R#ALME	alpine-subalpine meadows and grasslands
FS92	Grus	5	cold herbland	R#ALME	alpine-subalpine meadows and grasslands
FW3911	Cusick's camas (seep)	2	moist herbland	R#MGRA	idaho fescue grassland
FW4211	Arrowleaf groundsel	4	warm_hot riparian herbland	R#WGRA	marsh
FW4212	Common horsetail	4	warm_hot riparian herbland	R#WGRA	marsh
FW4213	Maidenhair fern	4	warm_hot riparian herbland	R#WGRA	marsh
FW4214	arrowleaf groundsel-purple monkeyflower	4	cool_cold riparian herbland	R#ALME	alpine-subalpine meadows and grasslands
FW51	False hellebore	4	warm_hot riparian herbland	R#WGRA	marsh
FW5121	False hellebore	4	warm_hot riparian herbland	R#WGRA	marsh
FW6111	Buckbean	4	warm_hot riparian herbland	R#WGRA	marsh
FW6112	American speedwell	4	warm_hot riparian herbland	R#WGRA	marsh
FW6113	Brook saxifrage	4	warm_hot riparian herbland	R#WGRA	marsh
FW7111	Swamp onion	4	cool_cold riparian herbland	R#ALME	alpine-subalpine meadows and grasslands
FX4111	Wallowa Lewisia (rim)	2	dry herbland	R#AGSP	bluebunch wheatgrass
GB1211	Sand dropseed (river terrace)	2	dry herbland	R#AGSP	bluebunch wheatgrass
GB1911	Bluebunch wheatgrass-sand dropseed-red threeawn	2	dry herbland	R#AGSP	bluebunch wheatgrass
GB41	Bluebunch wheatgrass	2	dry herbland	R#AGSP	bluebunch wheatgrass
GB4111	Bluebunch wheatgrass-Wyeth's buckwheat	2	dry herbland	R#AGSP	bluebunch wheatgrass
GB4112	Bluebunch wheatgrass-Sandberg's bluegrass-narrowleaf skullcap	2	dry herbland	R#AGSP	bluebunch wheatgrass
GB4113	Bluebunch wheatgrass-Sandberg's bluegrass (basalt)	2	dry herbland	R#AGSP	bluebunch wheatgrass

ECO CLASS	VEGETATION TYPE COMMON NAME	BLUES FIRE_REGIME	blues bio_setting	landfire code	landfire PNVG
GB4114	Bluebunch wheatgrass-Sandberg's bluegrass-Cusick's milkvetch	2	dry herbland	R#AGSP	bluebunch wheatgrass
GB4115	Bluebunch wheatgrass-Sandberg's bluegrass-shaggy fleabane	2	dry herbland	R#AGSP	bluebunch wheatgrass
GB4116	Bluebunch wheatgrass-Sandberg's bluegrass (granite)	2	dry herbland	R#AGSP	bluebunch wheatgrass
GB4117	Bluebunch wheatgrass-Sandberg's bluegrass-Snake River phlox	2	dry herbland	R#AGSP	bluebunch wheatgrass
GB4118	Bluebunch wheatgrass-Sandberg's bluegrass-pricklypear	2	dry herbland	R#AGSP	bluebunch wheatgrass
GB4119	bluebunch wheatgrass-Sandberg's bluegrass-lupine	2	dry herbland	R#AGSP	bluebunch wheatgrass
GB4121	Bluebunch wheatgrass-Sandberg's bluegrass	2	dry herbland	R#AGSP	bluebunch wheatgrass
GB4123	bluebunch wheatgrass-Sandberg's bluegrass-arrowleaf balsamroot	2	dry herbland	R#AGSP	bluebunch wheatgrass
GB4124	bluebunch wheatgrass-Sandberg's bluegrass-creamy buckwheat	2	dry herbland	R#AGSP	bluebunch wheatgrass
GB4125	bluebunch wheatgrass-Sandberg's bluegrass-Blue Mountain milkvetch	2	dry herbland	R#AGSP	bluebunch wheatgrass
GB4126	bluebunch wheatgrass-Sandberg's bluegrass-bighead clover	2	dry herbland	R#AGSP	bluebunch wheatgrass
GB4127	bluebunch wheatgrass-Sandberg's bluegrass-spreading dogbane	2	dry herbland	R#AGSP	bluebunch wheatgrass
GB4131	bluebunch wheatgrass-mountain brome	2	moist herbland	R#MGRA	idaho fescue grassland
GB4132	bluebunch wheatgrass-sulfur-flower buckwheat	2	dry herbland	R#AGSP	bluebunch wheatgrass
GB4133	bluebunch wheatgrass-turpentine cymopterus	2	dry herbland	R#AGSP	bluebunch wheatgrass
GB4411	bulbous bluegrass-cluster tarweed	2	dry herbland	R#AGSP	bluebunch wheatgrass
GB4911	Bluebunch wheatgrass-Sandberg's bluegrass-Onespike oatgrass	2	dry herbland	R#AGSP	bluebunch wheatgrass
GB4915	creeping Oregon-grape/bluebunch wheatgrass-spreading dogbane	2	dry shrubland	R#SBDWlw	low sagebrush
GB5011	Oniongrass-Needlegrass	2	dry herbland	R#AGSP	bluebunch wheatgrass
GB5121	Common snowberry/Idaho fescue-bluebunch wheatgrass-Lupine	2	moist shrubland	R#SBMT	mountain big sagebrush
GB59	Idaho fescue-bluebunch wheatgrass	2	moist herbland	R#MGRA	idaho fescue grassland
GB5911	Idaho fescue-prairie junegrass (ridge)	2	cool herbland	R#MGRA	idaho fescue grasslands
GB5912	Idaho fescue-prairie junegrass (mound)	2	cool herbland	R#MGRA	idaho fescue grasslands
GB5913	Idaho fescue-prairie junegrass (high elevation)	2	cool herbland	R#MGRA	idaho fescue grasslands
GB5914	Idaho fescue-prairie junegrass (low elevation)	2	moist herbland	R#MGRA	idaho fescue grassland
GB5915	Idaho fescue-bluebunch wheatgrass (ridge)	2	moist herbland	R#MGRA	idaho fescue grassland

ECO CLASS	VEGETATION TYPE COMMON NAME	BLUES FIRE_REGIME	blues bio_setting	landfire code	landfire PNVG
GB5916	Idaho fescue-bluebunch wheatgrass-silky lupine	2	moist herbland	R#MGRA	idaho fescue grassland
GB5917	Idaho fescue-bluebunch wheatgrass-balsamroot	2	moist herbland	R#MGRA	idaho fescue grassland
GB5918	Idaho fescue-bluebunch wheatgrass-Snake River phlox	2	moist herbland	R#MGRA	idaho fescue grassland
GB5919	Common snowberry/Idaho fescue-prairie junegrass	2	moist shrubland	R#SBMT	mountain big sagebrush
GB5920	Idaho fescue-timber oatgrass-Liddon's sedge	2	moist herbland	R#MGRA	idaho fescue grassland
GB5921	Idaho fescue-Hood's sedge	2	moist herbland	R#MGRA	idaho fescue grassland
GB5922	Idaho fescue-elk sedge	2	moist herbland	R#MGRA	idaho fescue grassland
GB5923	Idaho fescue-Red avens	2	cool herbland	R#MGRA	idaho fescue grasslands
GB5924	Idaho fescue-Wallowa penstemon	2	cool herbland	R#MGRA	idaho fescue grasslands
GB5925	Idaho fescue-bluebunch wheatgrass-Cymopterus	2	dry herbland	R#AGSP	bluebunch wheatgrass
GB5926	Idaho fescue-bluebunch wheatgrass-Cusick's frasera	2	cool herbland	R#MGRA	idaho fescue grasslands
GB5927	Idaho fescue-bluebunch wheatgrass-Wheeler's bluegrass	2	dry herbland	R#AGSP	bluebunch wheatgrass
GB5931	Idaho fescue-bluebunch wheatgrass-phlox	2	moist herbland	R#MGRA	idaho fescue grassland
GB5932	Idaho Fescue-onespike oatgrass	2	dry herbland	R#AGSP	bluebunch wheatgrass
GB6011	Rough fescue-Idaho fescue	5	cold herbland	R#ALME	alpine-subalpine meadows and grasslands
GB7111	Basin wildrye	2	moist herbland	R#MGRA	idaho fescue grassland
GB9111	Sandberg's bluegrass-onespike oatgrass	2	dry herbland	R#AGSP	bluebunch wheatgrass
GB9112	Sandberg's bluegrass-Lance-leaved stonecrop	2	dry herbland	R#AGSP	bluebunch wheatgrass
GB9114	onespike oatgrass-slenderfruit lomatium	3	moist herbland	R#MGRA	idaho fescue grassland
GM4111	Bluejoint reedgrass	4	cool_cold riparian herbland	R#ALME	alpine-subalpine meadows and grasslands
GS10	Western needlegrass	2	cool herbland	R#MGRA	idaho fescue grasslands
GS11	Green fescue	4	cold herbland	R#ALME	alpine-subalpine meadows and grasslands
GS1111	Green fescue-Hood's sedge	4	cold herbland	R#ALME	alpine-subalpine meadows and grasslands
GS1112	Green fescue-spurred lupine	4	cold herbland	R#ALME	alpine-subalpine meadows and grasslands

ECO CLASS	VEGETATION TYPE COMMON NAME	BLUES FIRE_REGIME	blues bio_setting	landfire code	landfire PNVG
GS1113	Green fescue-Parry's rush	5	cold herbland	R#ALME	alpine-subalpine meadows and grasslands
GS1114	Green fescue-Ross' sedge	4	cold herbland	R#ALME	alpine-subalpine meadows and grasslands
GS1115	Green fescue-Penstemon	4	cold herbland	R#ALME	alpine-subalpine meadows and grasslands
GS1116	Green fescue-Western needlegrass	4	cold herbland	R#ALME	alpine-subalpine meadows and grasslands
GS1117	Green fescue-Canby's lovage	4	cold herbland	R#ALME	alpine-subalpine meadows and grasslands
GS1118	Green fescue-Bearded wheatgrass	4	cold herbland	R#ALME	alpine-subalpine meadows and grasslands
GS1119	Green fescue-Holm's Rocky Mountain sedge	4	cold herbland	R#ALME	alpine-subalpine meadows and grasslands
GS12	Idaho fescue (alpine)	4	cold herbland	R#ALME	alpine-subalpine meadows and grasslands
GS39	Elk sedge (upland)	4	cold herbland	R#ALME	alpine-subalpine meadows and grasslands
GS3911	Elk sedge (alpine)	5	cold herbland	R#ALME	alpine-subalpine meadows and grasslands
GS3912	Elk sedge-Idaho fescue	5	cold herbland	R#ALME	alpine-subalpine meadows and grasslands
GS3913	Elk sedge-Parry's rush	5	cold herbland	R#ALME	alpine-subalpine meadows and grasslands
GS3914	Elk sedge-Pinegrass	5	cold herbland	R#ALME	alpine-subalpine meadows and grasslands
GS3915	Elk sedge-Cusick's bluegrass	5	cold herbland	R#ALME	alpine-subalpine meadows and grasslands
GS3916	Elk sedge-Desert phlox	5	cold herbland	R#ALME	alpine-subalpine meadows and grasslands
GS3917	Elk sedge-Western needlegrass	5	cold herbland	R#ALME	alpine-subalpine meadows and grasslands
GS4011	Alpine sedges-Western needlegrass	5	cold herbland	R#ALME	alpine-subalpine meadows and grasslands

ECO CLASS	VEGETATION TYPE COMMON NAME	BLUES FIRE_REGIME	blues bio_setting	landfire code	landfire PNVG
GS4012	Hood's sedge-Mountain brome (meadow)	2	cool herbland	R#MGRA	idaho fescue grasslands
GS4013	Parry's rush-Pale agoseris	5	cold herbland	R#ALME	alpine-subalpine meadows and grasslands
GS50	Western needlegrass-Squirreltail	2	dry herbland	R#AGSP	bluebunch wheatgrass
GS60	Fellfield	5	cold herbland	R#ALME	alpine-subalpine meadows and grasslands
GS61	Hood's sedge-Mountain brome	2	cool herbland	R#MGRA	idaho fescue grasslands
GS62	Hood's sedge-Elk sedge	2	cool herbland	R#MGRA	idaho fescue grasslands
GS63	Hood's sedge-Sticky cinquefoil	4	cold herbland	R#ALME	alpine-subalpine meadows and grasslands
GS64	Hood's sedge	2	cool herbland	R#MGRA	idaho fescue grasslands
GS70	Turf	5	cold herbland	R#ALME	alpine-subalpine meadows and grasslands
HAF211	Red alder/Sweet coltsfoot	4	warm_hot riparian forest	R#MCONms	mixed conifer - eastside mesic
HAF226	Red alder (alluvial bar)	4	warm_hot riparian forest	R#MCONms	mixed conifer - eastside mesic
HAF227	Red alder/Ladyfern	4	warm_hot riparian forest	R#MCONms	mixed conifer - eastside mesic
HAS211	Red alder/Pacific ninebark	4	warm_hot riparian forest	R#MCONms	mixed conifer - eastside mesic
HAS312	Red alder/Common snowberry	4	warm_hot riparian forest	R#MCONms	mixed conifer - eastside mesic
HAS511	Red alder/Redosier dogwood	4	warm_hot riparian forest	R#MCONms	mixed conifer - eastside mesic
HCS112	Black cottonwood/Pacific willow	1	warm_hot riparian forest	R#MCONms	mixed conifer - eastside mesic
HCS113	Black cottonwood/Mountain alder-redosier dogwood	4	warm_hot riparian forest	R#MCONms	mixed conifer - eastside mesic
HCS114	Black cottonwood/Rocky Mountain maple	4	warm_hot riparian forest	R#MCONms	mixed conifer - eastside mesic
HCS311	Black cottonwood/Common snowberry	1	warm_hot riparian forest	R#MCONms	mixed conifer - eastside mesic
HCS312	black cottonwood/common snowberry	1	warm_hot riparian forest	R#MCONms	mixed conifer - eastside mesic
HD01	Rocky Mountain maple	1	warm_hot riparian shrubland	none	none
HQG112	Quaking aspen/Elk sedge	3	moist forest	R#MCONms	mixed conifer - eastside mesic
HQM122	Quaking aspen/Kentucky bluegrass	1	warm_hot riparian forest	R#MCONms	mixed conifer - eastside mesic
HQM123	Quaking aspen/Bluejoint reedgrass	4	warm_hot riparian forest	R#MCONms	mixed conifer - eastside mesic

ECO CLASS	VEGETATION TYPE COMMON NAME	BLUES FIRE_REGIME	blues bio_setting	landfire code	landfire PNVG
HQM211	Quaking aspen/Woolly sedge	4	warm_hot riparian forest	R#MCONms	mixed conifer - eastside mesic
HQM212	Quaking aspen/Aquatic sedge	4	warm_hot riparian forest	R#MCONms	mixed conifer - eastside mesic
HQM511	Quaking aspen/Mesic forb	4	warm_hot riparian forest	R#MCONms	mixed conifer - eastside mesic
HQS221	Quaking aspen/Common snowberry	1	warm_hot riparian forest	R#MCONms	mixed conifer - eastside mesic
HQS222	Quaking aspen/Mountain alder-redosier dogwood	4	warm_hot riparian forest	R#MCONms	mixed conifer - eastside mesic
HQS223	Quaking aspen/Mountain alder-common snowberry	4	warm_hot riparian forest	R#MCONms	mixed conifer - eastside mesic
MD2111	Meadow foxtail	2	warm_hot riparian herbland	R#WGRA	marsh
MD3111	Kentucky bluegrass (dry meadow)	2	warm_hot riparian herbland	R#WGRA	marsh
MD3112	Kentucky bluegrass (degenerated bench)	2	cool herbland	R#MGRA	idaho fescue grasslands
MD4111	Thin bentgrass	2	warm_hot riparian herbland	R#WGRA	marsh
MM1912	Tufted hairgrass	4	cool_cold riparian herbland	R#ALME	alpine-subalpine meadows and grasslands
MM2911	Woolly sedge	4	warm_hot riparian herbland	R#WGRA	marsh
MM2912	Nebraska sedge	3	warm_hot riparian herbland	R#WGRA	marsh
MM2913	widefruit sedge	4	cool_cold riparian herbland	R#ALME	alpine-subalpine meadows and grasslands
MM2914	Aquatic sedge	4	cool_cold riparian herbland	R#ALME	alpine-subalpine meadows and grasslands
MM2915	Shortbeaked sedge	4	warm_hot riparian herbland	R#WGRA	marsh
MM2916	Woodrush sedge	4	cool_cold riparian herbland	R#ALME	alpine-subalpine meadows and grasslands
MM2917	Bladder sedge	4	cool_cold riparian herbland	R#ALME	alpine-subalpine meadows and grasslands
MM2918	Cusick's sedge	4	warm_hot riparian herbland	R#WGRA	marsh
MM2919	Densely tufted sedge	4	warm_hot riparian herbland	R#WGRA	marsh
MM2920	Slender sedge	4	warm_hot riparian herbland	R#WGRA	marsh
MM2921	Bigleaved sedge	4	warm_hot riparian herbland	R#WGRA	marsh
MM2922	Torrent sedge	4	warm_hot riparian herbland	R#WGRA	marsh

ECO CLASS	VEGETATION TYPE COMMON NAME	BLUES FIRE_REGIME	blues bio_setting	landfire code	landfire PNVG
MM2924	Smallfruit bulrush	4	warm_hot riparian herbland	R#WGRA	marsh
MM2925	Tall mannagrass	4	warm_hot riparian herbland	R#WGRA	marsh
MM2926	Weak alkaligrass	4	warm_hot riparian herbland	R#WGRA	marsh
MM2927	Sierra hare sedge	4	cool_cold riparian herbland	R#ALME	alpine-subalpine meadows and grasslands
MM2928	mud sedge	4	cool_cold riparian herbland	R#ALME	alpine-subalpine meadows and grasslands
MM2929	smallwing sedge	4	warm_hot riparian herbland	R#WGRA	marsh
MM2930	brown sedge	4	warm_hot riparian herbland	R#WGRA	marsh
MM2932	Sheldon's sedge	3	warm_hot riparian herbland	R#WGRA	marsh
MM2933	Jones' sedge	4	warm_hot riparian herbland	R#WGRA	marsh
MS2111	black alpine sedge	4	cool_cold riparian herbland	R#ALME	alpine-subalpine meadows and grasslands
MS2113	northern singlespike sedge-brook saxifrage (spring)	4	cool_cold riparian herbland	R#ALME	alpine-subalpine meadows and grasslands
MS3111	Holm's sedge	4	cool_cold riparian herbland	R#ALME	alpine-subalpine meadows and grasslands
MS3112	Star sedge	4	warm_hot riparian herbland	R#WGRA	marsh
MS3113	Silvery sedge	4	warm_hot riparian herbland	R#WGRA	marsh
MS4111	Delicate spikerush	4	cool_cold riparian herbland	R#ALME	alpine-subalpine meadows and grasslands
MT10	Rocky Mountain pond-lily	4	cool_cold riparian herbland	R#ALME	alpine-subalpine meadows and grasslands
MT8121	Common cattail	4	warm_hot riparian herbland	R#WGRA	marsh
MW1923	Inflated sedge	4	cool_cold riparian herbland	R#ALME	alpine-subalpine meadows and grasslands
MW1926	Sawbeak sedge	4	warm_hot riparian herbland	R#WGRA	marsh
MW2912	Clustered field sedge	4	cool_cold riparian herbland	R#ALME	alpine-subalpine meadows and grasslands
MW2913	Smoothstemmed sedge	4	cool_cold riparian herbland	R#ALME	alpine-subalpine meadows and grasslands

ECO CLASS	VEGETATION TYPE COMMON NAME	BLUES FIRE_REGIME	blues bio_setting	landfire code	landfire PNVG
MW2927	Drooping woodreed	4	cool_cold riparian herbland	R#ALME	alpine-subalpine meadows and grasslands
MW3912	Baltic rush	3	warm_hot riparian herbland	R#WGRA	marsh
MW4911	Fewflowered spikerush	4	cool_cold riparian herbland	R#ALME	alpine-subalpine meadows and grasslands
MW4912	Creeping spikerush	4	warm_hot riparian herbland	R#WGRA	marsh
NTS111	Syringa bordered talus strips	2	moist shrubland	R#SBMT	mountain big sagebrush
SD01	white sagebrush	2	warm_hot riparian herbland	R#WGRA	marsh
SD1911	Low sagebrush/Idaho fescue-bluebunch wheatgrass	2	moist shrubland	R#SBMT	mountain big sagebrush
SD1924	low sagebrush/bluebunch wheatgrass	2	dry shrubland	R#SBDWlw	low sagebrush
SD2401	threetip sagebrush/Sandberg's bluegrass-onespike oatgrass	2	dry shrubland	R#SBDWlw	low sagebrush
SD2911	Mountain big sagebrush/Idaho fescue-bluebunch wheatgrass	2	moist shrubland	R#SBMT	mountain big sagebrush
SD2915	Mountain big sagebrush/Elk sedge (montane)	2	moist shrubland	R#SBMT	mountain big sagebrush
SD2916	Mountain big sagebrush-bitterbrush/Idaho fescue	3	moist shrubland	R#SBMT	mountain big sagebrush
SD2917	Mountain big sagebrush-mountain snowberry/Mountain brome	2	moist shrubland	R#SBMT	mountain big sagebrush
SD2918	mountain big sagebrush/bluebunch wheatgrass-Sandberg's bluegrass	2	dry shrubland	R#SBDWlw	low sagebrush
SD2919	mountain big sagebrush-mountain snowberry	2	moist shrubland	R#SBMT	mountain big sagebrush
SD2920	mountain big sagebrush/western needlegrass	3	cold shrubland	R#SBMT	mountain big sagebrush
SD2929	mountain big sagebrush/Idaho fescue-prairie junegrass	2	moist shrubland	R#SBMT	mountain big sagebrush
SD30	Squaw apple-Mountain snowberry	3	moist shrubland	R#SBMT	mountain big sagebrush
SD3010	mountain big sagebrush-squaw apple	2	moist shrubland	R#SBMT	mountain big sagebrush
SD3011	mountain big sagebrush/giant wildrye	2	moist shrubland	R#SBMT	mountain big sagebrush
SD3111	Bitterbrush/Idaho fescue-bluebunch wheatgrass	2	moist shrubland	R#SBMT	mountain big sagebrush
SD3112	Bitterbrush/bluebunch wheatgrass	3	moist shrubland	R#SBMT	mountain big sagebrush
SD3124	bitterbrush-mountain big sagebrush/Idaho fescue-bluebunch wheatgrass	2	moist shrubland	R#SBMT	mountain big sagebrush
SD3125	bitterbrush-mountain big sagebrush/Idaho fescue	2	moist shrubland	R#SBMT	mountain big sagebrush

ECO CLASS	VEGETATION TYPE COMMON NAME	BLUES FIRE_REGIME	blues bio_setting	landfire code	landfire PNVG
SD3126	bitterbrush/Douglas' buckwheat	2	dry shrubland	R#SBDWlw	low sagebrush
SD40	mountain mahogany/elk sedge	3	moist shrubland	R#SBMT	mountain big sagebrush
SD4111	Mountain-mahogany/Idaho fescue-bluebunch wheatgrass	3	moist shrubland	R#SBMT	mountain big sagebrush
SD4112	mountain mahogany/bluebunch wheatgrass	2	dry shrubland	R#SBDWlw	low sagebrush
SD4113	Mountain-mahogany/Elk sedge	3	moist shrubland	R#SBMT	mountain big sagebrush
SD4114	mountain mahogany/Wheeler's bluegrass	2	dry shrubland	R#SBDWlw	low sagebrush
SD4115	mountain mahogany-bitterbrush/bluebunch wheatgrass	3	moist shrubland	R#SBMT	mountain big sagebrush
SD49	Curlleaf mountain-mahogany	2	dry shrubland	R#SBDWlw	low sagebrush
SD5611	Netleaf hackberry/Bluebunch wheatgrass	3	moist shrubland	R#SBMT	mountain big sagebrush
SD5612	netleaf hackberry/brome	1	warm_hot riparian shrubland	none	none
SD6121	Smooth sumac/Bluebunch wheatgrass	2	dry shrubland	R#SBDWlw	low sagebrush
SD65	Spiny greenbush/Bluebunch wheatgrass	2	dry shrubland	R#SBDWlw	low sagebrush
SD9111	Stiff sagebrush/Sandberg's bluegrass	2	dry shrubland	R#SBDWlw	low sagebrush
SD9141	stiff sagebrush / Gairdner's penstemon	2	dry shrubland	R#SBDWlw	low sagebrush
SD9221	Low sagebrush/Sandberg's bluegrass	2	dry shrubland	R#SBDWlw	low sagebrush
SD9322	Buckwheat/Oregon bladderpod	2	dry herbland	R#AGSP	bluebunch wheatgrass
SM1111	Ninebark-Common snowberry	2	moist shrubland	R#SBMT	mountain big sagebrush
SM19	ninebark-common snowberry	2	moist shrubland	R#SBMT	mountain big sagebrush
SM1901	Pacific ninebark	4	warm_hot riparian shrubland	none	none
SM20	Alder snow slides	5	cold shrubland	R#SBMT	mountain big sagebrush
SM3001	Lewis' mock orange/mesic forb	1	warm_hot riparian shrubland	none	none
SM31	Common snowberry	2	moist shrubland	R#SBMT	mountain big sagebrush
SM3110	common snowberry (floodplain)	3	warm_hot riparian shrubland	none	none
SM3111	Common snowberry-rose	2	moist shrubland	R#SBMT	mountain big sagebrush
SM32	Mountain snowberry	2	moist shrubland	R#SBMT	mountain big sagebrush
SM33	Snowbrush ceanothus	2	moist shrubland	R#SBMT	mountain big sagebrush
SM34	Bitter cherry	2	moist shrubland	R#SBMT	mountain big sagebrush

ECO CLASS	VEGETATION TYPE COMMON NAME	BLUES FIRE_REGIME	blues bio_setting	landfire code	landfire PNVG
SM41	water birch/reed canarygrass	4	warm_hot riparian shrubland	none	none
SM5001	Barton's raspberry	1	warm_hot riparian shrubland	none	none
SM5002	Himalayan blackberry	3	warm_hot riparian shrubland	none	none
SM5912	thimbleberry	3	warm_hot riparian shrubland	none	none
SS1912	Pink mountainheath mounds	4	cool_cold riparian shrubland	none	none
SS4195	Mountain big sagebrush/Green fescue	4	cold shrubland	R#SBMT	mountain big sagebrush
SS4911	Mountain big sagebrush/Elk sedge	4	cold shrubland	R#SBMT	mountain big sagebrush
SS4914	Mountain big sagebrush/Mountain brome	2	moist shrubland	R#SBMT	mountain big sagebrush
SS4915	Mountain big sagebrush/Western needlegrass	3	cold shrubland	R#SBMT	mountain big sagebrush
SS4916	Mountain big sagebrush/Hood's sedge	4	cold shrubland	R#SBMT	mountain big sagebrush
SS4917	Mountain big sagebrush/Linanthastrum	3	cold shrubland	R#SBMT	mountain big sagebrush
SS4918	Mountain big sagebrush/Golden buckwheat-Phlox	3	cold shrubland	R#SBMT	mountain big sagebrush
SS4919	Shrubby cinquefoil/Idaho fescue	2	moist shrubland	R#SBMT	mountain big sagebrush
SS60	Shrubby cinquefoil	4	cold shrubland	R#SBMT	mountain big sagebrush
SS6001	shrubby cinquefoil-bog birch	4	cool_cold riparian shrubland	none	none
SW0101	Labrador tea/Holm's Rocky Mountain sedge	4	cool_cold riparian shrubland	none	none
SW0102	twinberry honeysuckle/ladyfern	4	warm_hot riparian shrubland	none	none
SW1111	Willow/Kentucky bluegrass	4	warm_hot riparian shrubland	none	none
SW1112	Willow/Woolly sedge	4	warm_hot riparian shrubland	none	none
SW1114	Willow/Aquatic sedge	4	cool_cold riparian shrubland	none	none
SW1117	Coyote willow	3	warm_hot riparian shrubland	none	none
SW1121	Undergreen willow/Holm's sedge	4	cool_cold riparian shrubland	none	none
SW1123	Willow/Bladder sedge	4	warm_hot riparian shrubland	none	none
SW1124	Willow/Bluejoint reedgrass	4	cool_cold riparian shrubland	none	none
SW1125	Willow/Mesic forb	4	warm_hot riparian shrubland	none	none
SW1126	Rigid willow	3	warm_hot riparian shrubland	none	none

ECO CLASS	VEGETATION TYPE COMMON NAME	BLUES FIRE_REGIME	blues bio_setting	landfire code	landfire PNVG
SW1127	Undergreen willow/Bladder sedge	4	cool_cold riparian shrubland	none	none
SW1128	Undergreen willow/Clustered field sedge	4	cool_cold riparian shrubland	none	none
SW1129	Eastwood willow-Tweedy willow/Aquatic sedge	4	warm_hot riparian shrubland	none	none
SW1130	Scouler willow/Blue wildrye	4	warm_hot riparian shrubland	none	none
SW1133	arctic willow	4	cool_cold riparian shrubland	none	none
SW1134	Farr's willow/Pacific onion	4	cool_cold riparian shrubland	none	none
SW1135	Lemmon's willow/mesic forb	4	warm_hot riparian shrubland	none	none
SW1136	Sitka willow/common horsetail	4	warm_hot riparian shrubland	none	none
SW1137	Drummond's willow/arrowleaf groundsel	4	cool_cold riparian shrubland	none	none
SW1138	Booth's willow/Holm's Rocky Mountain sedge	4	cool_cold riparian shrubland	none	none
SW1139	Booth's willow/inflated sedge	4	cool_cold riparian shrubland	none	none
SW2101	white alder/blackberry	1	warm_hot riparian forest	R#MCONms	mixed conifer - eastside mesic
SW2102	white alder/mesic shrub	1	warm_hot riparian forest	R#MCONms	mixed conifer - eastside mesic
SW2111	Sitka alder/Ladyfern	4	warm_hot riparian shrubland	none	none
SW2112	Sitka alder/Drooping woodreed	4	warm_hot riparian shrubland	none	none
SW2113	Sitka alder/Mesic forb	4	warm_hot riparian shrubland	none	none
SW2114	Mountain alder/Bigleaved sedge	4	warm_hot riparian shrubland	none	none
SW2115	Mountain alder/Bladder sedge	4	warm_hot riparian shrubland	none	none
SW2116	Mountain alder/Ladyfern	4	warm_hot riparian shrubland	none	none
SW2117	Mountain alder/Common horsetail	4	warm_hot riparian shrubland	none	none
SW2118	Mountain alder/Dewey's sedge	4	warm_hot riparian shrubland	none	none
SW2120	Mountain alder/Kentucky bluegrass	4	warm_hot riparian shrubland	none	none
SW2121	Mountain alder/Bluejoint reedgrass	4	warm_hot riparian shrubland	none	none
SW2122	Mountain alder/Smallfruit bulrush	4	warm_hot riparian shrubland	none	none
SW2123	Mountain alder/Woolly sedge	4	warm_hot riparian shrubland	none	none
SW2124	Mountain alder/Common cowparsnip	4	warm_hot riparian shrubland	none	none

ECO CLASS	VEGETATION TYPE COMMON NAME	BLUES FIRE_REGIME	blues bio_setting	landfire code	landfire PNVG
SW2125	Mountain alder/Oakfern	4	warm_hot riparian shrubland	none	none
SW2126	Mountain alder/Aquatic sedge	4	warm_hot riparian shrubland	none	none
SW2127	Mountain alder/Densely tufted sedge	4	warm_hot riparian shrubland	none	none
SW2128	Mountain alder/Woodrush sedge	4	warm_hot riparian shrubland	none	none
SW2211	Mountain alder-common snowberry	4	warm_hot riparian shrubland	none	none
SW2215	Mountain alder/Tall mannagrass	4	warm_hot riparian shrubland	none	none
SW2216	Mountain alder-redosier dogwood/Mesic forb	4	warm_hot riparian shrubland	none	none
SW2217	Mountain alder-currants/Mesic forb	4	warm_hot riparian shrubland	none	none
SW3111	Douglas hawthorne	1	warm_hot riparian shrubland	none	none
SW3112	Water birch/Mesic forb	4	warm_hot riparian shrubland	none	none
SW3113	Water birch/Wet sedge	4	warm_hot riparian shrubland	none	none
SW3114	Western serviceberry	1	warm_hot riparian shrubland	none	none
SW3124	cow parsnip/blue wildrye	4	warm_hot riparian herbland	R#WGRA	marsh
SW4133	red osier dogwood/ladyfern	4	warm_hot riparian shrubland	none	none
SW5111	Currants/Drooping woodreed	4	warm_hot riparian shrubland	none	none
SW5112	Redosier dogwood	3	warm_hot riparian shrubland	none	none
SW5113	Shrubby cinquefoil/Tufted hairgrass	4	warm_hot riparian shrubland	none	none
SW5114	Shrubby cinquefoil/Kentucky bluegrass	4	warm_hot riparian shrubland	none	none
SW5115	Currants/Mesic forb	4	warm_hot riparian shrubland	none	none
SW5116	Currants/Tall mannagrass	4	warm_hot riparian shrubland	none	none
SW5117	Alderleaved buckthorn/Mesic forb	4	warm_hot riparian shrubland	none	none
SW5118	Redosier dogwood/Brook saxifrage	4	warm_hot riparian shrubland	none	none
SW6111	Silver sagebrush/Tufted hairgrass	3	warm_hot riparian shrubland	none	none
SW6112	Silver sagebrush/Kentucky bluegrass	1	warm_hot riparian shrubland	none	none
SW6113	Mountain big sagebrush/Cusick's bluegrass	1	warm_hot riparian shrubland	none	none
SW6114	Silver sagebrush/Cusick's bluegrass	1	warm_hot riparian shrubland	none	none

ECO CLASS	VEGETATION TYPE COMMON NAME	BLUES FIRE_REGIME	blues bio_setting	landfire code	landfire PNVG
SW901	alpine laurel/black alpine sedge	4	cool_cold riparian shrubland	none	none
WL0108	narrowleaf bur-reed	4	cool_cold riparian herbland	R#ALME	alpine-subalpine meadows and grasslands

Appendix B Blues Bio Setting landfire cross-walk

blues biophysical_setting	landfire PNVG	landfire_code	frcc biophy setting	frcc code
cold forest	spruce - fir	R#SPFI	Interior West Lower Subalpine Forest #1	SPFI1
cold herbland	alpine-subalpine meadows and grasslands	R#ALME	Mtn. Grassland	MGRA1
cold shrubland	mountain big sagebrush	R#SBMT	Sagebrush-Cool (Mountain Big Sagebrush)	CSAG1
cool herbland	idaho fescue grasslands	R#MGRA	Mtn. Grassland	MGRA1
cool_cold riparian forest	spruce - fir	R#SPFI	Interior West Lower Subalpine Forest #1	SPFI1
cool_cold riparian herbland	alpine-subalpine meadows and grasslands	R#ALME	Riparian	RIPA
cool_cold riparian shrubland	none		Riparian	RIPA
dry Douglas-fir forest	mixed conifer- eastside dry	R#MCONdy	Ponderosa Pine-Douglas-fir (Inland NW)	PPDF1
dry grand fir forest	mixed conifer- eastside dry	R#MCONdy	Ponderosa Pine-Douglas-fir (Inland NW)	PPDF1
dry herbland	bluebunch wheatgrass	R#AGSP	Mtn. Grassland	MGRA1
dry ponderosa pine forest	dry ponderosa pine-mesic		Ponderosa Pine-Douglas-fir (Inland NW)	PPDF1
dry shrubland	low sagebrush	R#SBDWlw	Sagebrush-Other (Silver, Wyoming)	SAGE1
hot dry pine forest	dry ponderosa pine - mesic	R#PIPOm	Ponderosa Pine PNW/Great Basin	PPIN1
juniper woodland	ponderosa pine - xeric	R#PIPOxe	Juniper Steppe-Infrequent Fire	JUST1
moist forest	mixed conifer - eastside mesic	R#MCONms	Grand Fir-Douglas-fir	GFDF
moist herbland	idaho fescue grassland	R#MGRA	Mtn. Grassland	MGRA1
moist shrubland	mountain big sagebrush	R#SBMT	Sagebrush-Basin Big	BSAG1
warm_hot riparian forest	mixed conifer - eastside mesic	R#MCONms	Ponderosa Pine-Douglas-fir (Inland NW)	PPDF1
warm_hot riparian herbland	marsh	R#WGRA	Riparian	RIPA
warm_hot riparian shrubland	none		Riparian	RIPA
whitebark pine forest	subalpine woodland	R#SAWD	Interior West Upper Subalpine Forest	SPFI2

Appendix C
Landfire veg_fuel class query parameters

landfire group	code	DBH SERAL A	CANOPY SERAL A	DBH B	CANOP Y B	DBH C	CANOPY C	DBH D	CANOP Y D	DBH E	CANOP Y E
alpine-subalpine meadows and grasslands	R#ALME	NA	0-20	NA	50-80+	NA	20-80				
bluebunch wheatgrass	R#AGSP	NA	0-50	NA	50-75	NA	75+				
dry ponderosa pine - mesic	R#PIPOm	<5	ANY	5-20	30+	5-20	<30	20+	<30	20+	30+
idaho fescue grasslands	R#MGRA	NA	0-20	NA	60-80+	NA	20-60				
low sagebrush	R#SBDWlw	NA	0-25	NA	25-30	NA	30+				
marsh	R#WGRA	NA									
mixed conifer - eastside mesic	R#MCONms	<5	ANY	5-20	55+	5-20	<55	20+	<55	20+	55+
mixed conifer- eastside dry	R#MCONDy	<5	ANY	5-20	40+	5-20	<40	20+	<40	20+	40+
mountain big sagebrush	R#SBMT	NA	<5	NA	20-60+	NA	5-20	NA	5-20	NA	20-60+
ponderosa pine - xeric	R#PIPOxe	<5	ANY	5-20	25+	5-20	<25	20+	<25	20+	25+
spruce - fir	R#SPFI	<5	ANY	5-15	40+	5-15	<40	15+	<40	15+	40+
subalpine woodland	R#SAWD	<12	ANY	>12	>30	>12	<30	NA	NA		

DBH Field =
diameter of the
overstory layer
(layer with
canopy closure >
10%)

Canopy Field =
total canopy
closure for the
stand

Source of
information for
the query
parameters is the
"Rapid
Assessment
Reference

Appendix D

Percent condition class by Forest and biophysical setting/veg-fuel class

Count = count of 200 meter pixels (approx 9.88 ac each)

malheur

Bps	VegClass	StdCC	SumOfCount_	ttl_bps_veg_count	percent_stand_cc
R#AGSP	A	1	9	267	3
R#AGSP	A	2	7	267	3
R#AGSP	A	3	251	267	94
R#AGSP	B	1	262	262	100
R#AGSP	C	1	83	3445	2
R#AGSP	C	2	320	3445	9
R#AGSP	C	3	3042	3445	88
R#ALME			2	2	100
R#ALME	A	1	4	4	100
R#ALME	B	1	215	215	100
R#ALME	C	1	5	5	100
R#MCONdy	A	1	2846	3705	77
R#MCONdy	A	2	682	3705	18
R#MCONdy	A	3	177	3705	5
R#MCONdy	B	3	25875	25875	100
R#MCONdy	C	1	18449	21875	84
R#MCONdy	C	2	3393	21875	16
R#MCONdy	C	3	33	21875	0
R#MCONdy	D	1	2629	2629	100
R#MCONdy	E	1	4370	16198	27
R#MCONdy	E	2	9438	16198	58
R#MCONdy	E	3	2390	16198	15
R#MCONms	A	1	1030	2177	47
R#MCONms	A	2	1142	2177	52
R#MCONms	A	3	5	2177	0
R#MCONms	B	1	5664	5664	100
R#MCONms	C	1	140	7884	2
R#MCONms	C	2	6392	7884	81
R#MCONms	C	3	1352	7884	17
R#MCONms	D	1	1124	3008	37
R#MCONms	D	2	1857	3008	62
R#MCONms	D	3	27	3008	1
R#MCONms	E	1	3578	3683	97
R#MCONms	E	2	105	3683	3
R#MGRA	A	1	1	2	50
R#MGRA	A	2	1	2	50
R#MGRA	B	1	978	978	100
R#MGRA	C	1	1	1	100
R#PIPOm	A	1	1406	2017	70

R#PIPOm	A	2	270	2017	13
R#PIPOm	A	3	341	2017	17
R#PIPOm	B	1	14	19676	0
R#PIPOm	B	2	212	19676	1
R#PIPOm	B	3	19450	19676	99
R#PIPOm	C	1	7286	7370	99
R#PIPOm	C	2	84	7370	1
R#PIPOm	D	1	948	948	100
R#PIPOm	E	1	229	7185	3
R#PIPOm	E	2	1173	7185	16
R#PIPOm	E	3	5783	7185	80
R#PIPOxe	A	1	2432	2768	88
R#PIPOxe	A	2	336	2768	12
R#PIPOxe	B	2	11	12127	0
R#PIPOxe	B	3	12116	12127	100
R#PIPOxe	C	1	4148	5561	75
R#PIPOxe	C	2	1413	5561	25
R#PIPOxe	D	1	98	98	100
R#PIPOxe	E	1	330	1886	17
R#PIPOxe	E	2	1339	1886	71
R#PIPOxe	E	3	217	1886	12
R#SAWD	A	1	20	344	6
R#SAWD	A	2	203	344	59
R#SAWD	A	3	121	344	35
R#SAWD	B	1	31	353	9
R#SAWD	B	2	174	353	49
R#SAWD	B	3	148	353	42
R#SBDWlw	A	1	46	46	100
R#SBDWlw	B	1	555	1692	33
R#SBDWlw	B	2	1017	1692	60
R#SBDWlw	B	3	120	1692	7
R#SBDWlw	C	1	1400	8917	16
R#SBDWlw	C	2	7517	8917	84
R#SBMT	A	1	19	20	95
R#SBMT	A	3	1	20	5
R#SBMT	B	2	8	1442	1
R#SBMT	B	3	1434	1442	99
R#SBMT	C	1	211	291	73
R#SBMT	C	2	80	291	27
R#SPFI	A	2	6	1611	0
R#SPFI	A	3	1605	1611	100
R#SPFI	B	1	157	932	17
R#SPFI	B	2	775	932	83
R#SPFI	C	1	295	342	86
R#SPFI	C	2	47	342	14
R#SPFI	D	1	2	2	100
R#SPFI	E	1	427	431	99
R#SPFI	E	2	4	431	1
R#WGRA			2481	2481	100

Bps	CondCls	SumOfCount	ttl_bps_count	percent_condclas
-----	---------	------------	---------------	------------------

		14101	14101	100
R#AGSP	1	146	3974	4
R#AGSP	2	864	3974	22
R#AGSP	3	2964	3974	75
R#ALME	1	226	226	100
R#MCONdy	1	22	70282	0
R#MCONdy	2	66275	70282	94
R#MCONdy	3	3985	70282	6
R#MCONms	1	14255	22416	64
R#MCONms	2	7561	22416	34
R#MCONms	3	600	22416	3
R#MGRA	1	981	981	100
R#PIPOm	2	29136	37196	78
R#PIPOm	3	8060	37196	22
R#PIPOxe	2	19191	22440	86
R#PIPOxe	3	3249	22440	14
R#SAWD	2	614	697	88
R#SAWD	3	83	697	12
R#SBDWlw	1	230	10655	2
R#SBDWlw	2	10425	10655	98
R#SBMT	2	406	1753	23
R#SBMT	3	1347	1753	77
R#SPFI	1	577	3318	17
R#SPFI	2	1540	3318	46
R#SPFI	3	1201	3318	36
R#WGRA		2481	2481	100

Umatilla

Bps	VegClass	StdCC	SumOfCount	ttl_bps_vegclas_count	percent_stdcc
R#AGSP	A	1	22	968	2
R#AGSP	A	2	17	968	2
R#AGSP	A	3	929	968	96
R#AGSP	B	1	1379	1379	100
R#AGSP	C	1	253	16376	2
R#AGSP	C	2	772	16376	5
R#AGSP	C	3	15351	16376	94
R#ALME	A	1	1	35	3
R#ALME	A	3	34	35	97
R#ALME	B	1	579	579	100
R#ALME	C	1	6	22	27
R#ALME	C	2	10	22	45
R#ALME	C	3	6	22	27
R#MCONdy	A	1	2607	3928	66
R#MCONdy	A	2	568	3928	14
R#MCONdy	A	3	753	3928	19
R#MCONdy	B	3	27767	27767	100
R#MCONdy	C	1	6135	6295	97
R#MCONdy	C	2	159	6295	3
R#MCONdy	C	3	1	6295	0

R#MCONdy	D	1	1106	1108	100
R#MCONdy	D	2	2	1108	0
R#MCONdy	E	1	1494	5904	25
R#MCONdy	E	2	1395	5904	24
R#MCONdy	E	3	3015	5904	51
R#MCONms	A	1	3203	4125	78
R#MCONms	A	2	874	4125	21
R#MCONms	A	3	48	4125	1
R#MCONms	B	1	7636	9110	84
R#MCONms	B	2	1474	9110	16
R#MCONms	C	1	4847	4882	99
R#MCONms	C	3	35	4882	1
R#MCONms	D	1	2438	4780	51
R#MCONms	D	2	2342	4780	49
R#MCONms	E	1	572	15770	4
R#MCONms	E	2	15172	15770	96
R#MCONms	E	3	26	15770	0
R#MGRA	B	1	859	859	100
R#MGRA	C	1	23	57	40
R#MGRA	C	2	5	57	9
R#MGRA	C	3	29	57	51
R#PIPOm	A	1	388	2700	14
R#PIPOm	A	2	511	2700	19
R#PIPOm	A	3	1801	2700	67
R#PIPOm	B	1	43	8929	0
R#PIPOm	B	2	229	8929	3
R#PIPOm	B	3	8657	8929	97
R#PIPOm	C	1	1836	1903	96
R#PIPOm	C	2	67	1903	4
R#PIPOm	D	1	86	86	100
R#PIPOm	E	1	177	620	29
R#PIPOm	E	2	204	620	33
R#PIPOm	E	3	239	620	39
R#PIPOxe	A	1	76	88	86
R#PIPOxe	A	3	12	88	14
R#PIPOxe	B	1	4	520	1
R#PIPOxe	B	3	516	520	99
R#PIPOxe	C	1	172	231	74
R#PIPOxe	C	2	57	231	25
R#PIPOxe	C	3	2	231	1
R#PIPOxe	E	1	35	57	61
R#PIPOxe	E	2	22	57	39
R#SAWD	A	1	13	13	100
R#SAWD	D		8	8	100
R#SAWD	E		93	93	100
R#SBDWlw	A	1	28	31	90
R#SBDWlw	A	2	3	31	10
R#SBDWlw	B	1	57	57	100
R#SBDWlw	C	2	963	963	100
R#SBMT	A	1	1	13	8
R#SBMT	A	3	12	13	92
R#SBMT	B	3	3544	3544	100

R#SBMT	C	1	4	4	100
R#SPFI	A	1	3	5002	0
R#SPFI	A	3	4999	5002	100
R#SPFI	B	1	4250	4718	90
R#SPFI	B	2	391	4718	8
R#SPFI	B	3	77	4718	2
R#SPFI	C	1	1336	1336	100
R#SPFI	D	1	1095	1095	100
R#SPFI	E	1	3120	6939	45
R#SPFI	E	2	3819	6939	55
R#WGRA	B	1	407	407	100

summary from huc4-5-6 frcc summary 9-25-2006

wallowa-whitman totals

Bps	CondCls	SumOfCount	total_bps_count	percent_condclas
R#AGSP	1	11421	36427	31
R#AGSP	2	6968	36427	19
R#AGSP	3	18038	36427	50
R#ALME		5159	5159	100
R#MCONdy	1	22	62105	0
R#MCONdy	2	27660	62105	45
R#MCONdy	3	34423	62105	55
R#MCONms	1	42618	47167	90
R#MCONms	2	4547	47167	10
R#MCONms	3	2	47167	0
R#MGRA	1	3114	7390	42
R#MGRA	2	1337	7390	18
R#MGRA	3	2939	7390	40
R#PIPOm	1	173	21001	1
R#PIPOm	2	8894	21001	42
R#PIPOm	3	11934	21001	57
R#PIPOxe	2	1810	1855	98
R#PIPOxe	3	45	1855	2
R#SAWD	1	2625	5014	52
R#SAWD	2	2340	5014	47
R#SAWD	3	49	5014	1
R#SBDWlw	2	4792	4972	96
R#SBDWlw	3	180	4972	4
R#SBMT	2	3388	4068	83
R#SBMT	3	680	4068	17
R#SPFI	1	28710	35088	82
R#SPFI	2	6378	35088	18
R#WGRA	1	948	948	100

Bps	VegClass	StdCC	SumOfCount	total_vegclas_count	percent cc
			20021	20021	100
	A		7	7	100
	E		1	1	100
R#AGSP	A	1	114	21824	1
R#AGSP	A	2	146	21824	1

R#AGSP	A	3	21564	21824	99
R#AGSP	B	1	14585	14585	100
R#AGSP	C	1	18	18	100
R#ALME			5159	5159	100
R#MCONdy			1318	1318	100
R#MCONdy	A	1	3535	7449	47
R#MCONdy	A	2	2434	7449	33
R#MCONdy	A	3	1480	7449	20
R#MCONdy	B	1	8	34697	0
R#MCONdy	B	3	34689	34697	100
R#MCONdy	C	1	8139	8490	96
R#MCONdy	C	2	349	8490	4
R#MCONdy	C	3	2	8490	0
R#MCONdy	D	1	1089	1089	100
R#MCONdy	E	1	3003	9062	33
R#MCONdy	E	2	3289	9062	36
R#MCONdy	E	3	2770	9062	31
R#MCONms			311	311	100
R#MCONms	A	1	2955	7798	38
R#MCONms	A	2	4843	7798	62
R#MCONms	B	1	14671	19349	76
R#MCONms	B	2	4678	19349	24
R#MCONms	C	1	3662	9677	38
R#MCONms	C	2	5931	9677	61
R#MCONms	C	3	84	9677	1
R#MCONms	D	1	2614	2629	99
R#MCONms	D	2	15	2629	1
R#MCONms	E	1	3732	7403	50
R#MCONms	E	2	3669	7403	50
R#MCONms	E	3	2	7403	0
R#MGRA	A	1	187	4000	5
R#MGRA	A	2	88	4000	2
R#MGRA	A	3	3725	4000	93
R#MGRA	B	1	3312	3312	100
R#MGRA	C	1	58	78	74
R#MGRA	C	2	7	78	9
R#MGRA	C	3	13	78	17
R#PIPOm			100	100	100
R#PIPOm	A	1	668	3621	18
R#PIPOm	A	2	1091	3621	30
R#PIPOm	A	3	1862	3621	51
R#PIPOm	B	1	101	11709	1
R#PIPOm	B	2	435	11709	4
R#PIPOm	B	3	11173	11709	95
R#PIPOm	C	1	2468	2683	92
R#PIPOm	C	2	215	2683	8
R#PIPOm	D	1	330	356	93
R#PIPOm	D	2	26	356	7
R#PIPOm	E	1	213	2532	8
R#PIPOm	E	2	263	2532	10
R#PIPOm	E	3	2056	2532	81
R#PIPOxe			4	4	100

R#PIPOxe	A	1	249	743	34
R#PIPOxe	A	2	283	743	38
R#PIPOxe	A	3	211	743	28
R#PIPOxe	B	1	4	752	1
R#PIPOxe	B	3	748	752	99
R#PIPOxe	C	1	189	237	80
R#PIPOxe	C	2	45	237	19
R#PIPOxe	C	3	3	237	1
R#PIPOxe	D	1	5	5	100
R#PIPOxe	E	1	2	114	2
R#PIPOxe	E	2	109	114	96
R#PIPOxe	E	3	3	114	3
R#SAWD	A	1	70	2840	2
R#SAWD	A	2	2234	2840	79
R#SAWD	A	3	536	2840	19
R#SAWD	B	1	220	350	63
R#SAWD	B	2	87	350	25
R#SAWD	B	3	43	350	12
R#SAWD	C	1	1688	1824	93
R#SAWD	C	2	136	1824	7
R#SBDWlw	A	1	439	3849	11
R#SBDWlw	A	2	3410	3849	89
R#SBDWlw	B	1	151	1110	14
R#SBDWlw	B	2	202	1110	18
R#SBDWlw	B	3	757	1110	68
R#SBDWlw	C	1	13	13	100
R#SBMT	A	1	243	843	29
R#SBMT	A	2	206	843	24
R#SBMT	A	3	394	843	47
R#SBMT	B	1	77	669	12
R#SBMT	B	2	44	669	7
R#SBMT	B	3	548	669	82
R#SBMT	C	1	302	2556	12
R#SBMT	C	2	2254	2556	88
R#SPFI			1306	1306	100
R#SPFI	A	1	509	2683	19
R#SPFI	A	2	580	2683	22
R#SPFI	A	3	1594	2683	59
R#SPFI	B	1	7263	9126	80
R#SPFI	B	2	1858	9126	20
R#SPFI	B	3	5	9126	0
R#SPFI	C	1	2833	2833	100
R#SPFI	D	1	3925	3925	100
R#SPFI	E	1	7396	15215	49
R#SPFI	E	2	7819	15215	51
R#WGRA	B	1	948	948	100

Appendix E

Fire return interval data (total of wildfire and prescribed burning)

Mean fire return interval
(MFRI) last 100 years

blues_bio setting	waw_bio acres	waw_all fire acres	mal_bio	mal all_fire	uma bio_ACRES	uma all_fire	blues bio_ac	blues ttl all fire (ac)	blues MRFI
cold forest	344516	116737	33054.68	34226.99	188504.7483	100068.48	566075.4	251032.5	225.499
cold herbland	51354	15330	2244.067	1467.316	6506.212715	2073.6668	60104.28	18870.98	318.501
cold shrubland	20738	2888	3082.661	1780.819	3332.485956	485.06283	27153.15	5153.882	526.848
dry Douglas-fir forest	296779	134208	274438.6	46482.79	239027.4479	68088.755	810245.1	248779.5	325.688
dry grand fir forest	312547	106296	417782.9	72232.78	205128.5737	78056.4	935458.5	256585.2	364.58
dry herbland	358806	252379	39711.54	19614.51	185932.5515	29175.067	584450.1	301168.6	194.061
dry ponderosa pine forest	163080	57458	368287.7	84217.64	89093.28134	28595.877	620461	170271.5	364.395
dry shrubland	49004	31032	105005.2	29841.91	10301.47531	1278.2773	164310.6	62152.19	264.368
hot dry pine forest	43260	8510	174816.9	47971.04	51939.7799	11725.025	270016.7	68206.06	395.884
juniper woodland	18038	3470	46383.74	10495.51	8668.61954	1702.6527	73090.36	15668.16	466.49
moist forest	464082	128099	221671.9	56274.78	382102.3128	96873.103	1067856	281246.9	379.686
moist herbland	72827	39080	9829.572	4157.73	9399.179782	2181.3476	92055.75	45419.08	202.681
moist shrubland	19712	3553	14627.95	8386.016	31794.016	8583.0777	66133.96	20522.09	322.257
warm_hot riparian forest	390	540	62.86943	63.88833	35.32302821	0	488.1925	603.8883	80.8415
warm_hot riparian herbland	9527	1522	24639.03	3317.382	4183.186897	1590.6468	38349.22	6430.029	596.408
warm_hot riparian shrubland	1054	223	1774.621	131.8321	78.94992384	27.454451	2907.571	382.2866	760.574
whitebark pine forest	49249	7378	6735.485	5492.461	1046.792652	342.84303	57031.28	13213.3	431.62

MAL MFRI 100 years

BIOSETTING	ttl bio acres	SumOf FIREYR_TOTAL	wildfire only MFRI	SumOf total_all_fire	Sum Of total_all_fire	ttl_fire&act MFRI
cold forest	33054.6844	34222.04157	96.5888735	34226.99408	34226.99408	96.57489749
cold herbland	2244.06711	1466.315439	153.0412248	1467.316161	1467.316161	152.9368494
cold shrubland	3082.66107	1780.819466	173.1035138	1780.819466	1780.819466	173.1035138
cool_cold riparian forest	11.6369438	2.901507002	401.0655072	2.901507002	2.901507002	401.0655072
cool_cold riparian herbland	35.159436	1.332291558	2639.019651	1.332291558	1.332291558	2639.019651
dry Douglas-fir forest	274438.636	36943.24736	742.8654923	46482.78661	46482.78661	590.4091738
dry grand fir forest	417782.885	64397.82065	648.7531426	72232.78178	72232.78178	578.3840453
dry herbland	39711.5442	18895.50756	210.1639455	19614.51085	19614.51085	202.4600283
dry ponderosa pine forest	368287.741	71873.61651	512.4101991	84217.63655	84217.63655	437.3047696
dry shrubland	105005.162	29064.67766	361.2810141	29841.90959	29841.90959	351.8714574
hot dry pine forest	174816.887	42313.97517	413.1421986	47971.03828	47971.03828	364.4217295
juniper woodland	46383.7435	9454.142928	490.6181755	10495.5112	10495.5112	441.9388695
moist forest	221671.932	53246.57954	416.3120591	56274.78482	56274.78482	393.9098699
moist herbland	9829.57173	3729.405056	263.5694322	4157.730081	4157.730081	236.4167836
moist shrubland	14627.9477	8354.77747	175.0848274	8386.015592	8386.015592	174.432632
warm_hot riparian forest	62.8694256	63.88833287	98.40517469	63.88833287	63.88833287	98.40517469
warm_hot riparian herbland	24639.0316	2500.369995	985.4154259	3317.381891	3317.381891	742.7252105
warm_hot riparian shrubland	1774.62114	101.1855057	1753.829388	131.8321082	131.8321082	1346.122095
whitebark pine forest	6735.48483	5484.576224	122.8077532	5492.461119	5492.461119	122.6314522
MAL	1744196.27					

waw MFRI 100 years

blues_bio_setting	SumOfFIREYR_TOTAL	ttl_bio_acres	wilfire return interval	Sum total_all_fire acres	total_FRI
cold forest	116113	344516	296.7075177	116737	295.1215125
cold herbland	15301	51354	335.6251225	15330	334.9902153
cold shrubland	2888	20738	718.0747922	2888	718.0747922

cool_cold riparian herbland	15	15	100	15	100
dry Douglas-fir forest	132838	296779	223.4142339	134208	221.1336135
dry grand fir forest	93168	312547	335.4660398	106296	294.0345827
dry herbland	252181	358806	142.2811393	252379	142.1695149
dry ponderosa pine forest	55461	163080	294.0444637	57458	283.8247067
dry shrubland	31008	49004	158.0366357	31032	157.9144109
hot dry pine forest	8254	43260	524.1095227	8510	508.3431257
juniper woodland	3454	18038	522.2350898	3470	519.8270893
missing info	5026	40181	799.4627935	5236	767.3987777
moist forest	112979	464082	410.7683729	128099	362.2838586
moist herbland	39053	72827	186.4824725	39080	186.3536336
moist shrubland	3529	19712	558.5718334	3553	554.7987616
non-veg	32042	113558	354.4035953	32079	353.9948253
warm_hot riparian forest	539	390	72.35621521	540	72.22222222
warm_hot riparian herbland	1520	9527	626.7763158	1522	625.9526938
warm_hot riparian shrubland	223	1054	472.6457399	223	472.6457399
whitebark pine forest	7378	49249	667.5115207	7378	667.5115207

UMA MFRI 100 years

BIOPHYSICAL	Sum Of FIREYR_ TOTAL	total_bio ACRES	fire return interval (wildfire only)	Sum Of total _all_fire	ttl fire&act MFRI
cold forest	88452.89953	188504.748	213.1131362	100068.4781	188.375752
cold grassland	1959.750921	6506.21271	331.9918183	2073.666812	313.754007
cold shrubland	473.3855378	3332.48596	703.9686873	485.0628269	687.02151
dry Douglas-fir forest	58678.14157	239027.448	407.3534735	68088.75547	351.052749
dry grand fir forest	71464.59936	205128.574	287.0352252	78056.39994	262.79533
dry grassland	27188.83148	185932.551	683.8563533	29175.06669	637.299491
dry ponderosa pine forest	22144.73024	89093.2813	402.3227214	28595.87657	311.559889
dry shrubland	1070.704452	10301.4753	962.1212732	1278.277253	805.887399
hot dry pine forest	10067.51631	51939.7799	515.9145342	11725.02536	442.982239
juniper woodland	1672.07855	8668.61954	518.4337507	1702.652748	509.124338
moist forest	79016.92305	382102.313	483.5702253	96873.10261	394.435919
moist grassland	2113.567237	9399.17978	444.706921	2181.347606	430.888674
moist shrubland	8266.729099	31794.016	384.6021276	8583.077739	370.426751
non veg	11.33548556	11.3354856	100	11.33548546	100.000001
NONVEG	288.8433245	1200.57429	415.6489646	288.8433257	415.648963
warm_hot riparian forest	0	35.3230282	#DIV/0!	0	#DIV/0!

warm_hot riparian herbland	1514.027066	4183.1869	276.2953841	1590.646821	262.986531
warm_hot riparian shrubland	27.45445135	78.9499238	287.5669334	27.45445061	287.566941
whitebark pine forest	214.6497119	1046.79265	487.6748461	342.8430294	305.327092

Acres burned for the last 25 years (1980-2005)

MFRI from 1980-2005

Malheur

BIOSETTING	ttl bio acres	SumOfFIREYR_TOTAL	wildfire only MFRI
cold forest	33054.68444	21632.0	38.20114234
cold herbland	2244.067107	489.0	114.7273572
cold shrubland	3082.66107	1385.0	55.64370163
cool_cold riparian forest	11.63694377	0.0	#DIV/0!
cool_cold riparian herbland	35.15943603	1.0	878.9859007
dry Douglas-fir forest	274438.6364	15417.0	445.0260044
dry grand fir forest	417782.8853	31223.0	334.5153294
dry herbland	39711.54421	14192.0	69.95410127
dry ponderosa pine forest	368287.7415	25823.0	356.5501118
dry shrubland	105005.1622	15517.0	169.1776152
hot dry pine forest	174816.8874	18481.0	236.4819103
juniper woodland	46383.74354	4367.0	265.5355137
moist forest	221671.9317	29737.0	186.360369
moist herbland	9829.571729	2871.0	85.59362356
moist shrubland	14627.94771	6968.0	52.48259082
warm_hot riparian forest	62.86942557	41.00	38.33501559
warm_hot riparian herbland	24639.03163	981.00	627.9060049
warm_hot riparian shrubland	1774.621136	36.00	1232.375789
whitebark pine forest	6735.484835	3716.00	45.31407989
MAL	1744196.268		

Umatilla

MFRI from 1980-2005

BIOPHYSICAL	SumOfFIREYR_TOTAL	total_bio_ACRES	fire return interval(wildfire only)
cold forest	29726	188504.75	158.5352455
cold grassland	543	6506.2127	299.5493883
cold shrubland	137	3332.486	608.1178752
dry Douglas-fir forest	35935	239027.45	166.2915318
dry grand fir forest	31032	205128.57	165.2556826

dry grassland	12755	185932.55	364.4307164
dry ponderosa pine forest	13966	89093.281	159.4824598
dry shrubland	219	10301.475	1175.967501
hot dry pine forest	4421	51939.78	293.7105853
juniper woodland	130	8668.6195	1667.042219
moist forest	14357	382102.31	665.3589064
moist grassland	715	9399.1798	328.6426497
moist shrubland	3568	31794.016	222.7719731
non veg		11.335486	#DIV/0!
NONVEG		1200.5743	#DIV/0!
warm_hot riparian forest	0	35.323028	#DIV/0!
warm_hot riparian herbland	501	4183.1869	208.7418611
warm_hot riparian shrubland	0	78.949924	#DIV/0!
whitebark pine forest	0	1046.7927	#DIV/0!
UMATILLA			

Wallowa-Whitman MFRI 1980-2005

blues_bio_setting	SumOfFIREYR_TOTAL	ttl_bio_acres	wilfire return interval
cold forest	61173	344516	140.7957759
cold herbland	7326	51354	175.2457002
cold shrubland	664	20738	780.7981928
cool_cold riparian herbland	15	15	25
dry Douglas-fir forest	89594	296779	82.81218608
dry grand fir forest	44575	312547	175.292765
dry herbland	211670	358806	42.37799405
dry ponderosa pine forest	29328	163080	139.0139116
dry shrubland	17140	49004	71.47607935
hot dry pine forest	5049	43260	214.2008318
juniper woodland	2805	18038	160.7664884
missing info	2753	40181	364.8837632
moist forest	34903	464082	332.408389
moist herbland	35085	72827	51.89325923
moist shrubland	586	19712	840.9556314
non-veg	18592	113558	152.6973967
warm_hot riparian forest	402	390	24.25373134

warm_hot riparian herbland	938	9527	253.9179104
warm_hot riparian shrubland		1054	#DIV/0!
whitebark pine forest	4092	49249	300.8858749
WAW			

Appendix F

Frequency of normal, high, and severe years

Wildfire acres by year (fire year 1,2,3 track polygons that burned multiple times)

Malheur

FIREYEA1	Fire yr 1	fireyear2	fireyear3	total acres	Fire yr type
1910	160878	14319	0	175197	S
1939	14927	1148	598	16673	H
1958	61	436	0	497	N
1960	23	0	0	23	N
1962	10	0	4	14	N
1967	33	4	0	37	N
1968	13	0	0	13	N
1972	110	0	0	110	N
1974	10	0	0	10	N
1977	131	0	0	131	N
1979	10	0	0	10	N
1981	484	0	0	484	N
1984	84	0	0	84	N
1986	1979	0	0	1979	N
1987	665	0	0	665	N
1988	667	0	0	667	N
1989	11418	0	0	11418	H
1990	72086	6677	34	78797	S
1991	12	0	0	12	N
1994	10954	0	0	10954	H
1995	129	193	0	322	N

1996	32177	7212	128	39517	H
1997	18	0	0	18	N
1998	0	363	0	363	N
2000	24	394	0	418	N
2001	833	0	0	833	N
2002	44258	4062	74	48394	H
2003	83	0	0	83	N
2005	457	0	0	457	N

Umatilla

FIRE_YEAR	year1acres	year2acres	year3acres	year4acres	total acres	Umatilla fire yr type
1893	26516.3059683987	2103	0		28619	H
18xx	90884.1243738249	1840	293		93017	S
1910	84445.8598354729	14220	0		98666	S
1944	977.102568128199	64	0		1041	N
1960	137.633694496257	0	0		138	N
1961	2245.47950708093	3446	0		5691	H
1970	133.951376658649	0	0		134	N
1972	49.5888961145674	0	0		50	N
1973	28.6745117389781	0	0		29	N
1974	84.0938151341449	0	0		84	N
1976	285.281480087578	0	0		285	N
1978	41.7605550596715	0	9		51	N

1979	3205.89252078087	0	0	3206	H
1982	29.4080916827562	0	0	29	N
1984	108.821044040159	0	0	109	N
1985	63.4686649121063	0	0	63	N
1986	12822.005148124	202	0	13024	H
1987	12790.7574253707	597	328	13716	H
1988	570.396137870464	126	0	696	N
1990	79.2221180071964	0	0	79	N
1993	574.457080204538	0	0	574	N
1994	1031.53920600508	1765	884	3681	H
1995	130.052038989427	0	0	130	N
1996	59379.4207086542	14545	884	74808	S
1997	2792.18969782539	0	57	2849	H
1998	107.234940616252	0	0	107	N
1999	399.16257706602	0	0	399	N
19yy	72.4494529660962	0	0	72	N
2000	4487.36566080119	53	0	4540	H
2001	5104.84936482554	167	0	5272	H
2002	434.211006611324	2	0	436	N
2003	1267.85056665853	0	0	1268	N
2004	35.065129541961	35	0	70	N
2005	27570.0009308546	1171	0	28741	H

Wallowa-whitman

ID	FIREYEA1	yea1_ac	yea2_ac	yea3_acres	yea4-acres	total_ac	fire yr type
2	18xx	736	0	0	0	736	N
3	1910	256417	24019	671	0	281107	S
4	1939	17204	0	0	0	17204	H

5	1950	648	0	0	0	648	N
6	1960	15622	1580	0	0	17202	H
7	1963	512	0	0	0	512	N
8	1965	739	0	0	0	739	N
9	1967	89	0	0	0	89	N
10	1969	7602	667	0	0	8269	H
11	1970	21	0	0	0	21	N
12	1972	107	0	0	0	107	N
13	1973	14446	115	1691	0	16252	H
14	1977	24	0	0	0	24	N
15	1978	243	0	0	0	243	N
16	1979	1191	0	0	0	1191	N
17	1981	482	0	0	0	482	N
18	1983	331	0	0	0	331	N
19	1985	1248	0	0	0	1248	N
20	1986	78929	7146	1849	0	87924	S
21	1987	3133	0	17	0	3150	H
22	1988	56628	2	0	0	56630	S
23	1989	58212	5404	1613	0	65229	S
24	1990	615	0	47	0	662	N
25	1991	329	0	285	0	614	N
26	1992	610	0	0	0	610	N
27	1994	49188	8483	0	0	57671	S
28	1995	2709	0	0	0	2709	H
29	1996	58980	25253	307	0	84540	S
30	1997	82	702	0	0	784	N
37	1999		75	0	0		N
31	2000	64890	14553	22483	0	101926	S
32	2001	12136	0	0	0	12136	H

33	2002	3156	1421	0	0	4577	H
34	2003	13846	2420	0	0	16266	H
35	2004	264	626	0	0	890	N
36	2005	18654	61718	571	869	81812	S

Frequency of normal, high, and severe years Calculations (1980-2005)

Yr type	Mal ac ttl	MAL yr tally	UMA ac ttl	UMA yr tally	WAW ac ttl	WAW yr tally	Ttl Blues ac	Ttl Blues count	percent	Avg ac	ratio
normal	6385	21	3960	18	5696	14	16041	53	.679	303	1
high	110283	4	71823	7	38838	5	220944	16	.205	13809	45
severe	78797	1	74808	1	535732	7	689337	9	.115	76593	252

VDDT model probability calculation for normalized frequency

Normal $.679 \times 1 = .679$

High $.205 \times 45.57 = 9.34$

Severe $.115 \times 252.68 = 28.96$

$38.96(x) = 1, x = .026$

normalized ratios

$1 \times .026 = .026$

$45.57 \times .026 = 1.18$

$251.68 \times .026 = 6.54$

	Malheur	Umatilla	Wallowa-Whitman	blues
Normal*	89	78		67
High	9	20		18
Severe	2	2		15

* = percent of normal, high or severe years from 1960-2005

normal = <2500 acres per year
 high = >=2500 and <50,000 acres per year
 severe = >=50,000 acres per year

data based on intersect of historic fire and vegetation polygon layers

.....
 fire frequency 1980-2005

	Malheur	Umatilla	Wallowa-Whitman	blues
Normal*	81	65	54	68
High	15	31	19	21
Severe	4	4	27	11

* = percent of normal, high or severe years from 1980-2005

.....

Appendix G

Potential fire severity calculations

Cvs inventory plot (second occasion plots, panel A,C,D)
 9-20-2006 Output from cvs FVS
 fire-fuel-extension report on
 potential basal area loss during
 severe weather/fire conditions.
 Summarized by Blues VDDT
 model and class codes low basal
 area loss potential = < 25% BA
 killed. Moderate BA loss = >=25
 and <70 percent mortality. High
 BA loss = >=70 percent mortality

forest	Bio environment	Low ba loss tally	Mod ba loss tally	High ba loss tally	Total tally	Low %	mod%	high%
614	cold herbland	2	0	2	4	50	0	50
614	cold shrubland	0	0	4	4	0	0	100
614	cool herbland	0	0	7	7	0	0	100
614	dry Douglas-fir forest	141	194	267	602	23.42	32.23	44.35
614	dry grand fir forest	62	110	143	315	19.68	34.92	45.4
614	dry herbland	7	9	128	144	4.861	6.25	88.89
614	dry ponderosa pine forest	17	52	78	147	11.56	35.37	53.06
614	dry shrubland	1	1	26	28	3.571	3.571	92.86

614	hot dry pine forest	1	32	79	112	0.893	28.57	70.54
614	juniper woodland	0	0	41	41	0	0	100
614	moist forest	261	410	441	1112	23.47	36.87	39.66
614	moist herbland	3	1	30	34	8.824	2.941	88.24
614	moist shrubland	9	6	91	106	8.491	5.66	85.85
614	non veg	0	0	1	1	0	0	100
614	warm_hot riparian herbland	0	0	7	7	0	0	100
614	whitebark pine forest	9	8	32	49	18.37	16.33	65.31
616	cold forest	68	322	470	860	7.907	37.44	54.65
616	cold herbland	1	1	32	34	2.941	2.941	94.12
616	cold shrubland	0	0	4	4	0	0	100
616	cool herbland	1	0	38	39	2.564	0	97.44
616	cool_cold riparian herbland	0	0	3	3	0	0	100
616	dry Douglas-fir forest	211	283	352	846	24.94	33.45	41.61
616	dry grand fir forest	138	187	178	503	27.44	37.18	35.39
616	dry herbland	17	10	334	361	4.709	2.77	92.52
616	dry ponderosa pine forest	38	60	130	228	16.67	26.32	57.02
616	dry shrubland	1	0	57	58	1.724	0	98.28
616	hot dry pine forest	16	59	132	207	7.729	28.5	63.77
616	juniper woodland	1	1	33	35	2.857	2.857	94.29
616	moist forest	234	473	329	1036	22.59	45.66	31.76
616	moist herbland	0	6	157	163	0	3.681	96.32
616	moist shrubland	11	22	249	282	3.901	7.801	88.3
616	non veg	0	2	5	7	0	28.57	71.43
616	warm_hot riparian forest	0	0	2	2	0	0	100
616	warm_hot riparian herbland	0	0	25	25	0	0	100
616	warm_hot riparian shrubland	0	0	4	4	0	0	100
616	whitebark pine forest	6	19	70	95	6.316	20	73.68
604	cold forest	6	35	50	91	6.593	38.46	54.95
604	cold herbland	1	0	2	3	33.33	0	66.67
604	cold shrubland	2	0	22	24	8.333	0	91.67
604	cool herbland	0	1	7	8	0	12.5	87.5
604	dry Douglas-fir forest	111	195	209	515	21.55	37.86	40.58
604	dry grand fir forest	167	299	296	762	21.92	39.24	38.85
604	dry herbland	1	0	53	54	1.852	0	98.15
604	dry ponderosa pine forest	61	286	304	651	9.37	43.93	46.7
604	dry shrubland	0	0	42	42	0	0	100

604	hot dry pine forest	25	131	243	399	6.266	32.83	60.9
604	juniper woodland	1	18	155	174	0.575	10.34	89.08
604	moist forest	49	187	146	382	12.83	48.95	38.22
604	moist herbland	0	0	11	11	0	0	100
604	moist shrubland	2	11	137	150	1.333	7.333	91.33
604	non veg	1	0	10	11	9.091	0	90.91
604	warm_hot riparian forest	0	0	1	1	0	0	100
604	warm_hot riparian herbland	0	0	3	3	0	0	100
604	warm_hot riparian shrubland	1	0	0	1	100	0	0
604	whitebark pine forest	2	2	35	39	5.128	5.128	89.74

Forest 604= Malheur, 614= Umatilla, 616 = Wallowa-Whitman

9-20-2006 Output from cvs FVS fire-fuel-extension report on potential basal area loss during severe weather/fire conditions.

Summarized by Blues VDDT model and class codes

low basal area loss potential = < 25% BA killed. Moderate BA loss = >=25 and <70 percent mortality.

High BA loss = >=70 percent mortality

vddtmodel1	vddtclasscode	vddtstrname	SumOf low ba loss category	sum of tally	low ba loss percent	mod ba loss percent	high ba loss percent
cd	114121	SIF_dense_unpalatableshrub	0	3	0	0	100
cd	114123	SIF_dense_unpalatableshrub	0	9	0	44	56
cd	134121	SEF_small_open_5-10"	0	28	0	68	32
cd	134122	SEF_small_open_5-10"	0	11	0	45	55
cd	134123	SEF_small_open_5-10"	0	76	0	33	67
cd	154121	SEF_small_dense_5-10"	0	25	0	52	48
cd	154122	SEF_small_dense_5-10"	0	11	0	27	73
cd	154123	SEF_small_dense_5-10"	0	38	0	42	58
cd	164121	URF_small_open_2story_5-10"	0	18	0	50	50

cd	164122	URF_small_open_2story_5-10"	0	2	0	100	0
cd	164123	URF_small_open_2story_5-10"	0	16	0	44	56
cd	184122	URF_small_dense_2story_5-10"	0	1	0	0	100
cd	184123	URF_small_dense_2story_5-10"	0	2	0	50	50
cd	194121	SEF_med_open_10-15"	0	13	0	54	46
cd	194122	SEF_med_open_10-15"	0	9	0	89	11
cd	194123	SEF_med_open_10-15"	1	71	1	55	44
cd	214121	SEF_med_dense_10-15"	0	8	0	100	0
cd	214122	SEF_med_dense_10-15"	0	7	0	86	14
cd	214123	SEF_med_dense_10-15"	0	27	0	41	59
cd	224121	URF_med_open_2story_10-15"	0	14	0	86	14
cd	224122	URF_med_open_2story_10-15"	0	3	0	67	33
cd	224123	URF_med_open_2story_10-15"	0	32	0	53	47
cd	244121	URF_med_dense_2story_10-15"	0	2	0	50	50
cd	244123	URF_med_dense_2story_10-15"	0	2	0	0	100
cd	254121	YMF_open-3story_15-20"	0	37	0	68	32
cd	254122	YMF_open-3story_15-20"	1	16	6	69	25
cd	254123	YMF_open-3story_15-20"	0	67	0	40	60
cd	264121	YMF_dense_3story_15-20"	0	6	0	33	67
cd	264122	YMF_dense_3story_15-20"	1	10	10	90	0
cd	264123	YMF_dense_3story_15-20"	0	5	0	60	40
cd	274121	SEF_large_open_15-20"	0	6	0	100	0
cd	274122	SEF_large_open_15-20"	4	8	50	50	0
cd	274123	SEF_large_open_15-20"	1	9	11	89	0
cd	294121	SEF_large_dense_15-20"	4	4	100	0	0
cd	294122	SEF_large_dense_15-20"	0	2	0	100	0
cd	304121	URF_large_open_15-20"	3	10	30	30	40
cd	304122	URF_large_open_15-20"	0	8	0	75	25
cd	304123	URF_large_open_15-20"	1	40	2	70	28
cd	314121	URF_large_dense_15-20"	0	5	0	60	40
cd	314122	URF_large_dense_15-20"	1	1	100	0	0

cd	314123	URF_large_dense_15-20"	0	3	0	67	33
cd	324121	OSF_open_>20"	2	8	25	38	38
cd	324122	OSF_open_>20"	11	27	41	44	15
cd	324123	OSF_open_>20"	19	60	32	32	37
cd	334122	OSF_dense_>20"	4	5	80	20	0
cd	344121	OMF_open_20"	3	16	19	50	31
cd	344122	OMF_open_20"	16	38	42	34	24
cd	344123	OMF_open_20"	28	112	25	38	38
cd	354121	OMF_dense_>20"	0	4	0	50	50
cd	354122	OMF_dense_>20"	1	10	10	60	30
cd	354123	OMF_dense_>20"	0	13	0	23	77
cd	94121	SIF_open	1	132	1	5	95
cd	94122	SIF_open	0	10	0	20	80
cd	94123	SIF_open	2	158	1	2	97
cm			0	0			
cm	114111	SIF_dense_unpalatableshrub	1	17	6	35	59
cm	114112	SIF_dense_unpalatableshrub	1	13	8	23	69
cm	114113	SIF_dense_unpalatableshrub	1	9	11	44	44
cm	134111	SEF_small_open_5-10"	0	97	0	59	41
cm	134112	SEF_small_open_5-10"	0	25	0	40	60
cm	134113	SEF_small_open_5-10"	0	35	0	60	40
cm	154111	SEF_small_dense_5-10"	0	40	0	57	42
cm	154112	SEF_small_dense_5-10"	0	31	0	94	6
cm	154113	SEF_small_dense_5-10"	0	38	0	66	34
cm	164111	URF_small_open_2story_5-10"	0	43	0	72	28
cm	164112	URF_small_open_2story_5-10"	0	15	0	73	27
cm	164113	URF_small_open_2story_5-10"	0	25	0	60	40
cm	184111	URF_small_dense_2story_5-10"	0	16	0	69	31
cm	184112	URF_small_dense_2story_5-10"	0	9	0	100	0
cm	184113	URF_small_dense_2story_5-10"	0	6	0	67	33
cm	194111	SEF_med_open_10-15"	2	25	8	44	48
cm	194112	SEF_med_open_10-15"	6	36	17	28	56
cm	194113	SEF_med_open_10-15"	2	29	7	83	10
cm	214111	SEF_med_dense_10-15"	0	9	0	100	0
cm	214112	SEF_med_dense_10-15"	1	21	5	81	14
cm	214113	SEF_med_dense_10-15"	0	58	0	88	12

cm	224111	URF_med_open_2story_10-15"	4	30	13	60	27
cm	224112	URF_med_open_2story_10-15"	2	18	11	50	39
cm	224113	URF_med_open_2story_10-15"	1	47	2	64	34
cm	244111	URF_med_dense_2story_10-15"	0	8	0	50	50
cm	244112	URF_med_dense_2story_10-15"	0	9	0	44	56
cm	244113	URF_med_dense_2story_10-15"	0	20	0	60	40
cm	254111	YMF_open-3story_15-20"	1	39	3	69	28
cm	254112	YMF_open-3story_15-20"	7	52	13	40	46
cm	254113	YMF_open-3story_15-20"	0	42	0	50	50
cm	264111	YMF_dense_3story_15-20"	1	5	20	0	80
cm	264112	YMF_dense_3story_15-20"	6	38	16	53	32
cm	264113	YMF_dense_3story_15-20"	1	16	6	62	31
cm	274111	SEF_large_open_15-20"	5	10	50	40	10
cm	274112	SEF_large_open_15-20"	28	70	40	29	31
cm	274113	SEF_large_open_15-20"	21	49	43	45	12
cm	294111	SEF_large_dense_15-20"	2	3	67	33	0
cm	294112	SEF_large_dense_15-20"	10	19	53	47	0
cm	294113	SEF_large_dense_15-20"	6	21	29	67	5
cm	304111	URF_large_open_15-20"	9	24	38	46	17
cm	304112	URF_large_open_15-20"	13	47	28	38	34
cm	304113	URF_large_open_15-20"	15	57	26	47	26
cm	314111	URF_large_dense_15-20"	3	5	60	40	0
cm	314112	URF_large_dense_15-20"	3	11	27	55	18
cm	314113	URF_large_dense_15-20"	8	42	19	48	33
cm	324111	OSF_open_>20"	7	22	32	59	9
cm	324112	OSF_open_>20"	47	126	37	38	25
cm	324113	OSF_open_>20"	71	132	54	40	6
cm	334111	OSF_dense_>20"	1	1	100	0	0
cm	334112	OSF_dense_>20"	4	10	40	20	40
cm	334113	OSF_dense_>20"	29	41	71	7	22
cm	344111	OMF_open_20"	23	66	35	32	33
cm	344112	OMF_open_20"	60	139	43	32	24
cm	344113	OMF_open_20"	110	223	49	22	28
cm	354111	OMF_dense_>20"	2	11	18	55	27
cm	354112	OMF_dense_>20"	7	23	30	22	48

cm	354113	OMF_dense_>20"	11	73	15	53	32
cm	94111	SIF_open	8	224	4	14	83
cm	94112	SIF_open	2	80	2	28	70
cm	94113	SIF_open	2	80	2	26	71
dd			0	0			
dd	114103	SIF_dense_unpalatableshrub	0	6	0	33	67
dd	114104	SIF_dense_unpalatableshrub	0	6	0	17	83
dd	134103	SEF_small_open_5-10"	0	28	0	25	75
dd	134104	SEF_small_open_5-10"	0	40	0	30	70
dd	154103	SEF_small_dense_5-10"	1	12	8	75	17
dd	154104	SEF_small_dense_5-10"	0	36	0	92	8
dd	164103	URF_small_open_2story_5-10"	0	16	0	12	88
dd	164104	URF_small_open_2story_5-10"	0	14	0	7	93
dd	184103	URF_small_dense_2story_5-10"	0	7	0	71	29
dd	184104	URF_small_dense_2story_5-10"	0	12	0	42	58
dd	194103	SEF_med_open_10-15"	2	41	5	37	59
dd	194104	SEF_med_open_10-15"	2	66	3	30	67
dd	214103	SEF_med_dense_10-15"	12	37	32	54	14
dd	214104	SEF_med_dense_10-15"	81	167	49	46	5
dd	224103	URF_med_open_2story_10-15"	0	11	0	36	64
dd	224104	URF_med_open_2story_10-15"	1	24	4	29	67
dd	244103	URF_med_dense_2story_10-15"	1	14	7	64	29
dd	244104	URF_med_dense_2story_10-15"	5	35	14	54	31
dd	254103	YMF_open-3story_15-20"	1	16	6	19	75
dd	254104	YMF_open-3story_15-20"	0	30	0	27	73
dd	264103	YMF_dense_3story_15-20"	2	9	22	56	22
dd	264104	YMF_dense_3story_15-20"	20	45	44	40	16
dd	274103	SEF_large_open_15-20"	2	36	6	53	42
dd	274104	SEF_large_open_15-20"	16	117	14	30	56
dd	294103	SEF_large_dense_15-20"	9	14	64	29	7
dd	294104	SEF_large_dense_15-20"	68	91	75	21	4
dd	304103	URF_large_open_15-20"	0	33	0	52	48
dd	304104	URF_large_open_15-20"	5	37	14	38	49

dd	314103	URF_large_dense_15-20"	3	14	21	50	29
dd	314104	URF_large_dense_15-20"	26	49	53	24	22
dd	324103	OSF_open_>20"	23	53	43	40	17
dd	324104	OSF_open_>20"	34	136	25	54	21
dd	334103	OSF_dense_>20"	12	14	86	14	0
dd	334104	OSF_dense_>20"	26	28	93	7	0
dd	344103	OMF_open_20"	15	97	15	51	34
dd	344104	OMF_open_20"	27	110	25	42	34
dd	354103	OMF_dense_>20"	6	57	11	28	61
dd	354104	OMF_dense_>20"	28	56	50	23	27
dd	94103	SIF_open	24	141	17	15	68
dd	94104	SIF_open	11	208	5	10	85
dg			0	0			
dg	114105	SIF_dense_unpalatableshrub	0	5	0	40	60
dg	114106	SIF_dense_unpalatableshrub	0	13	0	23	77
dg	134105	SEF_small_open_5-10"	0	19	0	21	79
dg	134106	SEF_small_open_5-10"	0	17	0	24	76
dg	154105	SEF_small_dense_5-10"	1	19	5	74	21
dg	154106	SEF_small_dense_5-10"	2	71	3	62	35
dg	164105	URF_small_open_2story_5-10"	0	21	0	19	81
dg	164106	URF_small_open_2story_5-10"	0	17	0	41	59
dg	184105	URF_small_dense_2story_5-10"	0	9	0	22	78
dg	184106	URF_small_dense_2story_5-10"	0	16	0	44	56
dg	194105	SEF_med_open_10-15"	2	27	7	30	63
dg	194106	SEF_med_open_10-15"	4	39	10	44	46
dg	214105	SEF_med_dense_10-15"	7	20	35	30	35
dg	214106	SEF_med_dense_10-15"	19	116	16	73	10
dg	224105	URF_med_open_2story_10-15"	0	12	0	58	42
dg	224106	URF_med_open_2story_10-15"	0	17	0	47	53
dg	244105	URF_med_dense_2story_10-15"	6	18	33	50	17
dg	244106	URF_med_dense_2story_10-15"	4	42	10	55	36
dg	254105	YMF_open-3story_15-20"	1	9	11	33	56
dg	254106	YMF_open-3story_15-20"	1	26	4	42	54
dg	264105	YMF_dense_3story_15-20"	3	9	33	22	44

dg	264106	YMF_dense_3story_15-20"	16	63	25	49	25
dg	274105	SEF_large_open_15-20"	1	23	4	48	48
dg	274106	SEF_large_open_15-20"	10	51	20	29	51
dg	294105	SEF_large_dense_15-20"	9	14	64	14	21
dg	294106	SEF_large_dense_15-20"	37	61	61	36	3
dg	304105	URF_large_open_15-20"	1	15	7	47	47
dg	304106	URF_large_open_15-20"	7	36	19	31	50
dg	314105	URF_large_dense_15-20"	4	12	33	33	33
dg	314106	URF_large_dense_15-20"	25	85	29	48	22
dg	324105	OSF_open_>20"	25	42	60	36	5
dg	324106	OSF_open_>20"	19	50	38	52	10
dg	334105	OSF_dense_>20"	5	5	100	0	0
dg	334106	OSF_dense_>20"	36	41	88	2	10
dg	344105	OMF_open_20"	4	36	11	67	22
dg	344106	OMF_open_20"	32	86	37	35	28
dg	354105	OMF_dense_>20"	18	52	35	50	15
dg	354106	OMF_dense_>20"	57	129	44	23	33
dg	94105	SIF_open	10	151	7	9	84
dg	94106	SIF_open	1	86	1	19	80
dp	114101	SIF_dense_unpalatableshrub	0	11	0	36	64
dp	134101	SEF_small_open_5-10"	0	61	0	8	92
dp	154101	SEF_small_dense_5-10"	0	48	0	73	27
dp	164101	URF_small_open_2story_5-10"	0	39	0	46	54
dp	184101	URF_small_dense_2story_5-10"	0	14	0	43	57
dp	194101	SEF_med_open_10-15"	2	145	1	28	71
dp	214101	SEF_med_dense_10-15"	20	84	24	61	15
dp	224101	URF_med_open_2story_10-15"	0	29	0	7	93
dp	244101	URF_med_dense_2story_10-15"	0	16	0	62	38
dp	254101	YMF_open-3story_15-20"	1	17	6	29	65
dp	264101	YMF_dense_3story_15-20"	2	4	50	25	25
dp	274101	SEF_large_open_15-20"	8	107	7	62	31
dp	294101	SEF_large_dense_15-20"	15	18	83	11	6
dp	304101	URF_large_open_15-20"	2	36	6	42	53
dp	314101	URF_large_dense_15-20"	2	13	15	54	31
dp	324101	OSF_open_>20"	27	59	46	46	8
dp	334101	OSF_dense_>20"	8	9	89	11	0
dp	344101	OMF_open_20"	12	75	16	65	19

dp	354101	OMF_dense_>20"	7	37	19	54	27
dp	94101	SIF_open	10	204	5	17	78
sw			0	0			
sw	134131	SEF_small_open_5-10"	0	12	0	8	92
sw	154131	SEF_small_dense_5-10"	0	2	0	0	100
sw	164131	URF_small_open_2story_5-10"	0	3	0	33	67
sw	184131	URF_small_dense_2story_5-10"	0	2	0	0	100
sw	194131	SEF_med_open_10-15"	0	13	0	31	69
sw	214131	SEF_med_dense_10-15"	0	1	0	100	0
sw	224131	URF_med_open_2story_10-15"	0	5	0	20	80
sw	274131	SEF_large_open_15-20"	0	4	0	100	0
sw	304131	URF_large_open_15-20"	0	4	0	0	100
sw	324131	OSF_open_>20"	9	29	31	31	38
sw	334131	OSF_dense_>20"	1	3	33	33	33
sw	344131	OMF_open_20"	6	24	25	17	58
sw	354131	OMF_dense_>20"	0	8	0	38	62
sw	94131	SIF_open	1	73	1	0	99
xp			0	0			
xp	114100	SIF_dense_unpalatableshrub	0	1	0	0	100
xp	134100	SEF_small_open_5-10"	0	59	0	10	90
xp	154100	SEF_small_dense_5-10"	0	14	0	86	14
xp	164100	URF_small_open_2story_5-10"	1	17	6	24	71
xp	184100	URF_small_dense_2story_5-10"	0	1	0	0	100
xp	194100	SEF_med_open_10-15"	3	114	3	23	75
xp	214100	SEF_med_dense_10-15"	10	31	32	58	10
xp	224100	URF_med_open_2story_10-15"	1	14	7	7	86
xp	244100	URF_med_dense_2story_10-15"	0	4	0	100	0
xp	254100	YMF_open-3story_15-20"	0	15	0	27	73
xp	274100	SEF_large_open_15-20"	2	70	3	40	57
xp	294100	SEF_large_dense_15-20"	1	9	11	67	22
xp	304100	URF_large_open_15-20"	0	20	0	30	70
xp	314100	URF_large_dense_15-20"	2	6	33	67	0
xp	324100	OSF_open_>20"	9	44	20	61	18
xp	334100	OSF_dense_>20"	1	1	100	0	0
xp	344100	OMF_open_20"	0	33	0	85	15
xp	354100	OMF_dense_>20"	0	10	0	80	20
xp	94100	SIF_open	12	255	5	16	80

