

APPENDIX 3 Habitat Types & Groups

Habitat Types within Fire Groups Common to West Central Montana

(excerpt from Fisher and Bradley, 1987, *Fire Ecology of Western Montana Forest Habitat Types*)

Fire Group 4: Warm, dry Douglas-fir habitat types include:

- Pseudotsuga menziesii/Agropyron spicatum* h.t. (PSME/AGSP; Douglas-fir/bluebunch wheatgrass)
- Pseudotsuga menziesii/Festuca scabrella* h.t. (PSME/FESC; Douglas-fir/rough fescue)
- Pseudotsuga menziesii/Physocarpus malvaceus* h.t.-*Calamagrostis rubescens* phase (PSME/PHMA-CARU; Douglas-fir/mountain ninebark-pinegrass phase)
- Pseudotsuga menziesii/Symphoricarpos albus* h.t.-*Agropyron spicatum* phase (PSME/SYAL-AGSP; Douglas-fir/common snowberry-bluebunch wheatgrass phase)
- Pseudotsuga menziesii/Calamagrostis rubescens* h.t.-*Agropyron spicatum* phase (PSME/CARU-AGSP; Douglas-fir/pinegrass-bluebunch wheatgrass phase)
- Pseudotsuga menziesii/Calamagrostis rubescens* h.t.-*Pinus ponderosa* phase (PSME/CARU-PIPO; Douglas-fir/pinegrass-ponderosa pine phase)
- Pseudotsuga menziesii/Spiraea betulifolia* h.t. (PSME/SPBE; Douglas-fir/white spirea)

Fire Group 5: Cool, dry Douglas-fir habitat types:

- Pseudotsuga menziesii/Calamagrostis rubescens* h.t.-*Agropyron spicatum* phase (PSME/CARU-AGSP; Douglas-fir/pinegrass-bluebunch wheatgrass phase)
- Pseudotsuga menziesii/Festuca idahoensis* h.t. (PSME/FEID; Douglas-fir/Idaho fescue)
- Pseudotsuga menziesii/Carex geyeri* h.t. (PSME/CAGE; Douglas-fir/elk sedge)

Fire Group 6: Moist Douglas-fir habitat types:

- Pseudotsuga menziesii/Physocarpus malvaceus* h.t.-*Physocarpus malvaceus* phase (PSME/PHMA-PHMA; Douglas-fir/mountain ninebark-mountain ninebark phase)
- Pseudotsuga menziesii/Vaccinium globulare* h.t.-*Vaccinium globulare* phase (PSME/VAGL-VAGL; Douglas-fir/blue huckleberry-blue huckleberry phase)
- Pseudotsuga menziesii/Vaccinium globulare* h.t.-*Arctostaphylos uva-ursi* phase (PSME/VAGL-ARUV; Douglas-fir/blue huckleberry-kinnikinnick phase)
- Pseudotsuga menziesii/Vaccinium globulare* h.t.-*Xerophyllum tenax* phase (PSME/VAGL-XETE; Douglas-fir/blue huckleberry-beargrass phase)
- Pseudotsuga menziesii/Linnaea borealis* h.t.-*Symphoricarpos albus* phase (PSME/LIBO-SYAL; Douglas-fir/twinflower-common snowberry phase)
- Pseudotsuga menziesii/Linnaea borealis* h.t.-*Calamagrostis rubescens* phase (PSME/LIBO-CARU; Douglas-fir/twinflower-pinegrass phase)
- Pseudotsuga menziesii/Linnaea borealis* h.t.-*Vaccinium globulare* phase (PSME/LIBO-VAGL; Douglas-fir/twinflower-blue huckleberry phase)
- Pseudotsuga menziesii/Symphoricarpos albus* h.t.-*Calamagrostis rubescens* phase (PSME/SYAL-CARU; Douglas-fir/common snowberry-pinegrass phase)
- Pseudotsuga menziesii/Symphoricarpos albus* h.t.-*Symphoricarpos albus* phase (PSME/SYAL-SYAL; Douglas-fir/common snowberry-common snowberry phase)

Pseudotsuga menziesii/Calamagrostis rubescens h.t.-*Arctostaphylos uva-ursi* phase (PSME/
CARU-ARUV; Douglas-fir/pinegrass-kinnikinnick phase)
Pseudotsuga menziesii/Calamagrostis rubescens h.t.-*Calamagrostis rubescens* phase
(PSME/CARU-CARU; Douglas-fir/pinegrass-pinegrass phase)
Pseudotsuga menziesii/Vaccinium caespitosum h.t. (PSME/VACA; Douglas-fir/dwarf
huckleberry)

Fire Group 7: Cool habitat types usually dominated by lodgepole pine:

Pseudotsuga menziesii/Vaccinium caespitosum h.t. (PSME/VACA; Douglas-fir/dwarf
huckleberry)
Picea/Vaccinium caespitosum h.t. (PICEA/VACA; spruce/dwarf huckleberry)
Picea/Linnaea borealis h.t. (PICEA/LIBO; spruce/twinflower)
Abies lasiocarpa/Vaccinium caespitosum h.t. (ABLA/VACA; subalpine fir/dwarf huckleberry)
Abies lasiocarpa/Calamagrostis canadensis h.t.-*Vaccinium caespitosum* phase
(ABLA/CACA-VACA; subalpine fir/bluejoint-dwarf huckleberry phase)
Abies lasiocarpa/Linnaea borealis h.t.-*Vaccinium scoparium* phase (ABLA/LIBO-VASC;
subalpine fir/twinflower-grouse whortleberry phase)
Abies lasiocarpa/Xerophyllum tenax h.t.-*Vaccinium scoparium* phase (ABLA/XETE-VASC;
subalpine fir/beargrass-grouse whortleberry phase)
Abies lasiocarpa/Vaccinium globulare h.t. (ABLA/VAGL; subalpine fir/blue huckleberry)
Abies lasiocarpa/Vaccinium scoparium h.t.-*Calamagrostis rubescens* phase (ABLA/VASC-
CARU; subalpine fir/grouse whortleberry-pinegrass phase)
Abies lasiocarpa/Vaccinium scoparium h.t.-*Vaccinium scoparium* phase (ABLA/VASC-
VASC; subalpine fir/grouse whortleberry-grouse whortleberry phase)
Pinus contorta/Vaccinium caespitosum h.t. (PICO/LIBO; lodgepole pine/dwarf huckleberry)
Pinus contorta/Linnaea borealis h.t. (PICO/LIBO; lodgepole pine/twinflower)
Pinus contorta/Vaccinium scoparium h.t. (PICO/VASC; lodgepole pine/grouse whortleberry)

Fire Group 9: Moist, lower subalpine habitat types:

Picea/Equisetum arvense h.t. (PICEA/EQUAR; spruce/field horsetail)
Picea/Galium triflorum h.t. (PICEA/GATR; spruce/sweetscented bedstraw)
Abies lasiocarpa/Clintonia uniflora h.t.-*Clintonia uniflora* phase (ABLA/CLUN-CLUN;
subalpine fir/queencup beadlily-queencup beadlily phase)
Abies lasiocarpa/Clintonia uniflora h.t.-*Aralia nudicaulis* phase (ABLA/CLUN-ARNU;
subalpine fir/queencup beadlily-wild sarsaparilla phase)
Abies lasiocarpa/Clintonia uniflora h.t.-*Vaccinium caespitosum* phase (ABLA/CLUN-
VACA; subalpine fir/queencup beadlily-dwarf huckleberry phase)
Abies lasiocarpa/Clintonia uniflora h.t.-*Xerophyllum tenax* phase (ABLA/CLUN-XETE;
subalpine fir/queencup beadlily-beargrass phase)
Abies lasiocarpa/Clintonia uniflora h.t.-*Menziesia ferruginea* phase (ABLA/CLUN-MEFE,
subalpine fir/queencup beadlily-menziesia phase)
Abies lasiocarpa/Galium triflorum h.t. (ABLA/GATR; subalpine fir/sweetscented bedstraw)
Abies lasiocarpa/Calamagrostis canadensis h.t.-*Calamagrostis canadensis* phase
(ABLA/CACA-CACA; subalpine fir/bluejoint-bluejoint phase)
Abies lasiocarpa/Calamagrostis canadensis h.t.-*Galium triflorum* phase (ABLA/CACA-
GATR; subalpine fir/bluejoint-sweetscented bedstraw phase)

Abies lasiocarpa/Linnaea borealis h.t.-*Linnaea borealis* phase (ABLA/LIBO-LIBO; subalpine fir/twinflower-twinflower phase)
Abies lasiocarpa/Linnaea borealis h.t.-*Xerophyllum tenax* phase (ABLA/LIBO-XETE; subalpine fir/twinflower-beargrass phase)
Abies lasiocarpa/Menziesia ferruginea h.t. (ABLA/MEFE; subalpine fir/menziesia)
Tsuga mertensiana/Menziesia ferruginea h.t. (TSME/MEFE; mountain hemlock/menziesia)
Abies lasiocarpa/Alnus sinuata h.t. (ABLA/ALSI; subalpine fir/sitka alder)