Merritt Predictive Ecosystem Mapping – Map Entities

Adapted from Biome Ecological Consultants Ltd. – Contract Report for NSIFS (July 24, 2002)

| BEC unit | Connotative Map Entity Name | Broad ecosystem type | Map Entity # | 1990 site series | Proposed site series Feb 2002 | Oikos KT Map code | Merritt PEM Site Series letter code | Stand attributes | Environmental attributes | Vegetation recognition criteria | comments | Post-processing logic |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IDFdk1, IDFdk1a | Steep warm aspect grassland | G | 1 | 92 | 92,93 | GR* unclassified grasslands | GD | Non-forested | Slope 3+<br>Aspect warm<br>Slope pos crest-mid<br>SMR X- SM<br>Landform FGt<br>Drainage rapid-well | Seladen<br>Balssag<br>Elymspi<br>Koelmac | postprocess from GR (simply OR) on basis of slope and aspect<br><br>GR with Slope class 3 or greater, warm and hot aspects | GR and Aspect = (warm or hot) |
| | Gentle slope or cool aspect grassland | G | 2 | 91.93 | 93ys,91ys, 91ms,91,94,95, 93-MS | GR* unclassified grasslands | GM | Non-forested | Slope 2-<br>Aspect NA or cool<br>Slope pos mid-lv (various)<br>SMR M (SX)<br>Landform Mb<br>Drainage m-w | Festcam >5% Lupine<br>Anteumb<br>Elymspi | postprocess from GR (simply OR) on basis of slope and aspect<br><br>GR with Slope class 2 or less or if slope 3 or more aspect cool or cold | GR and Aspect = (neutral, cold, cool) |
| | Talus | T | 3 | N/a | 71 | BT* Brushy Talus | TA | Non-forested | Slope 4+<br>Aspect warm<br>Slope pos md,up<br>SMR vx-x<br>Landform Cb<br>Drainage x-r | >5% junicom, essentially non-vegetated | Brushy talus was meant to describe alder dominated mesic to subhygric sites not non-forested rapidly drained talus **– need to develop new kt - kt attributes** Terrain-Cb, nonforested FC – NCBR or R, steep slope | BT or ((Npdesc = R) and (Sm=C)) |
| | Rock outcrop | R | 4 | N/a | 02 | None | JP | <10% Fd | Slope 3+ vari.<br>Aspect warm<br>Slope pos cr-up<br>SMR vx-x<br>Landform R, Cv/R, Mv/R<br>Drainage x-r | Heuccyl<br>Junicom<br>Seladen<br>Pensfru<br>Arctuva | Not recognized**, need to develop kt, KT attributes** Terrain – veneers/R, R, NPDESC - R | Npdesc=R (after ME3 removed) (<> BT and SM <> C) |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IDFdk1, IDFdk1a | FdPy bunchgrass | F | 5 | 02 | 03,04 | DW* | FB | <30% CC FD, Py | Slope 3+ vari. Aspect warm Slope pos up-md SMR x-sm Landform various Drainage m-r | Pinupon, >10 Elymspi spirbet Amelaln Koelmac Arctuva | | DW and (Sp1 <> At) |
| | Fd juniper-pinegrass | F | 6 | 03 | 05 | DJ* | FJ | Fd(Pl) | Slope 3+ vari. Aspect warm Slope pos md-up SMR sm (sx) Landform various Drainage w | Spirbet Shepcan Arctuva >20% Calarub | Very widespread unit, may be difficult to split from 01/04 basis of warm aspect and lack of Pl (Pl only present in 01 44% of time**), kt weights 6-15% canopy closure too heavily** | DJ and (Sp1 <> At) |
| | Mesic forest | F | 7 | 04,01 | 06,01,07 | DY,LP* | ZA | FdPl, PlFd | Slope 2- vari. Aspect n/a or cool Slope pos md SMR m Landform Mb Drainage m-w | Spirbet Shepcan >20% Calarub goodobl linnbor Pleusch | | (DY or LP) and (Sp1 <> At) |
| | SxFd gooseberry-feathermoss | F | 8 | 05 | 08 | SG | SG | SxFd(Pl) | Slope 2- vari. Aspect na Slope pos toe-llw SMR shg Landform Mb,Fb Drainage i | Ribelac Loniinv Calarub Galitri Osmorhi Orthsec >5%linnbor corncan pleusch Brachyt | Relatively common unit | SG |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IDFdk1, IDFdk1a | Sxw Horsetail | F | 9 | 06 | 09 | SH | SH | Sx | Slope 1<br>Aspect n/a<br>Slope pos lv,dp,gu<br>SMR hg<br>Landform Fb,Ob<br>Drainage i | Ribelac<br>Galitri<br>>20% equiarv | Relatively rare | SH |
| | Shrub wetlands | W | 10 | 07 | 10,31 | SW | WE | <10% Sxw | Slope 1<br>Aspect na<br>Slope pos dp, lv<br>SMR hg, shd<br>Landform Ob<br>Drainage vp | Carexspp.<br>Aulapal<br>Salix spp | | SW |
| | Herb wetlands | W | 11 | N/A | 40-49 | HW | GW | Non-forested | Slope 1<br>Aspect na<br>Slope pos lv<br>SMR shd<br>Landform Ob<br>Drainage vp | <10% shrubs | | HW |
| IDFdk1, IDFdk1a | Steep, dry Aspen | A | 12 | 02 | 22 | DW * | AB | Non-forested Scrub aspen | Slope 3<br>Aspect warm<br>Slope pos md<br>SMR sm<br>Landform variable?<br>Drainage m | Elymspi<br>Koelmac<br>Poasan | Rare<br><br>Post-processed from map entity 5 (map code DW) FdPy bunchgrass, with At leading | DW and (Sp1 = At) |
| | Other Aspen types | A | 13 | 03 04 01 | 21-ys, 21 23 24 25 | DJ DY LP* | AK | At open to closed canopy | Slope var<br>Aspect not warm<br>Slope pos var<br>SMR var<br>Landform var<br>Drainage var | Poa | Post processed from circum-mesic map entities with At leading, map codes DJ, DY, LP | (DJ or DY or LP) and (Sp1 = At) |

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| BEC unit | Connotative Map Entity Name | Broad ecosystem type | Map Entity # | 1990 site series | Proposed site series Feb 2002 | Oikos KT Map code | Merritt PEM Site Series letter code | Stand attributes | Environmental attributes | Vegetation recognition criteria | comments | Post-processing logic |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IDFdk2 | Talus | T | 14 | N/a | 71 | BT * | TA | Non-forested | Slope 4+<br>Aspect warm<br>Slope pos md<br>SMR vx (sx)<br>Landform Cb<br>Drainage x-r | Junicom<br>calarub | Brushy talus was meant to describe alder dominated mesic to subhygric sites not non-forested rapidly drained talus **– need to develop new kt, kt attributes:** Terrain-Cb, nonforested FC – NCBR or R, steep slope | BT or ((Npdesc = R) and (Sm=C)) |
| | Rock outcrop | R | 15 | N/a | 02 | none | JP | Non-forested <10% Fd | Slope 2+ var<br>Aspect warm<br>Slope pos cr<br>SMR vx x<br>Landform R, Cv/R, Dv/R<br>Drainage r-x | Junicom<br>Amelaln<br>Pensfru<br>Arctuva<br>Elymspi | Not recognized, **need to develop kt, kt attributes:** Terrain – veneers/R, R, NPDESC - R | Npdesc=R (after ME14 removed) (<> BT and SM <> C) |
| IDFdk2 | Grasslands | G | 16 | N/a | 91MS, 91YS | GR | BF | Non-forested | Slope var<br>Aspect var<br>Slope pos md<br>SMR sm,sx<br>Landform var<br>Drainage w | Elymspi<br>Koelmac<br>Festida<br>Balssag<br>Astrmis | rare | GR |
| | Dry forest | F | 17 | 02,03 | 03,04 | DW, DP* | ZC | Fd (Py,Pl) | Slope3+ var<br>Aspect warm<br>Slope pos md,up<br>SMR sx<br>Landform mb, C<br>Drainage r-w | Spirbet<br>Arctuva<br>>10%calarub | | DW or DP (after ME23 removed) (LSP <> AT) |
| | Mesic forests | F | 18 | 01,04 | 05,01,06,07,08 | LP, DF* | ZD | Fd,Pl, Pl, Fd | Slope var<br>Aspect var<br>Slope pos md<br>SMR m (sm,shg)<br>Landform var<br>Drainage w-m | >10% calarub, linnbor<br>goodobl<br>chimumb<br>Pleusch | if 08 encountered in field will have to be careful assessing map entity | LP or DF (after ME24 removed) (LSP <> AT) |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IDFdk2 | Sxw, Fd subhygric forest | F | 19 | 05 | 09,10,11 | SD | ZG | Sx Fd | Slope 2-<br>Aspect n/a<br>Slope pos to,lv<br>SMR shg hg<br>Landform Fb<br>Drainage i | Sympalb<br>Ribelac<br>Cornsto<br>Galitri<br>Brachyt | | SD |
| | Hygric Forest | F | 20 | 06,07 | 12, 13 | SH, RT* | SW | Sxw<br>Sxw(Fd) | Slope 1<br>Aspect n/a<br>Slope pos to lv<br>SMR hg shd<br>Landform Fb (O)<br>Drainage p-vp | Loniinv<br>Cornsto<br>Corncan<br>Mitella<br>>10% equiarv<br>Plagiomnium | | SH or RT (after ME25 removed)<br>(LSP <> AT) |
| | Shrub wetlands | W | 21 | 08 | 31-34 | SW | WE | Non-forest | Slope 1<br>Aspect na<br>Slope pos dp, lv<br>SMR hg, shd<br>Landform Ob<br>Drainage vp | Carex spp | Highly variable floristically | SW |
| | Herb wetland | W | 22 | N/A | 41-43 | HW | GW | Non-forested | Slope 1<br>Aspect na<br>Slope pos lv<br>SMR shd<br>Landform Ob<br>Drainage vp | Carexspp | | HW |

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| BEC unit | Connotative Map Entity Name | Broad ecosystem type | Map Entity # | 1990 site series | Proposed site series Feb 2002 | Oikos KT Map code | Merritt PEM Site Series letter code | Stand attributes | Environmental attributes | Vegetation recognition criteria | comments | Post-processing logic |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IDFdk2 | Aspen bunchgrass | A | 23 | 02,03 | 21 | DW, DP* | AB | Non-forest scrub aspen | Slope 4+<br>Aspect warm<br>Slope pos var<br>SMR sx<br>Landform<br>Drainage r | Arctuva<br>Elymspi | If these are scrub then At will not appear in FC Rare.<br><br>Post-process from map codes DW and DP– dry forest, with At leading | (DW or DP) and (Sp1 = At) |
| | Aspen pinegrass | A | 24 | 01 04 | 22 | LP, DF* | AP | At | Slope 3+<br>Aspect var<br>Slope pos md<br>SMR sx-m<br>Landform M<br>Drainage m-w | >15% pinegrass<br>Fragvir | Post-process from map codes LP and DF - Mesic forest, with At leading | (LP or DF) and (Sp1 = At) |
| IDFdk2 | Aspen Dogwood-waxberry | A | 25 | 06 07 | 23 | SH, RT* | AD | At | Slope 2-<br>Aspect n/a<br>Slope pos md,lw,to<br>SMR shg-shd<br>Landform Fb<br>Drainage i | Sympalb >10% cornsto<br>Galitri | Post-process from map codes SH and RT - Sxw, Fd subhygric forest, and hygric forest, both with At leading | (SH or RT) and (Sp1 = At) |
| MSdm2 | Grassland | G | 26 | | 92,91 | none | | Non-forest | Slope 3+<br>Aspect var<br>Slope pos md, cr, up<br>SMR x-m<br>Landform var<br>Drainage r,w | Elymspi<br>Geumtri<br>Achimil | **Need kt**, Can use kt for GR units from other variants except that JW kt weights OR as highly as this entity, OR will always be assigned to rock outcrop unless additional features added to GR kt e.g. D_1 weighted for w, ECOSOIL+D_1 – MDCSOIL+W=3 | DROPPED<br><br>Can't post process at this time. |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MSdm2 | Talus | T | 27 | N/A | 71 | BT* | TA | Non-forest, scattered trees | Slope 3+<br>Aspect warm<br>Slope pos var<br>SMR vx-x<br>Landform Cb<br>Drainage x, r | Paximyr<br>Junicom | Brushy talus was meant to describe alder dominated mesic to subhygric sites not non-forested rapidly drained talus **– need to develop new kt, kt attributes:** Terrain-Cb, nonforested FC – NCBR or R, steep slope | BT or ((Npdesc = R) and (Sm=C)) or ((LG or LJ) and LSP = " ") |
| | Rock outcrops | R | 28 | 02 | 02,03 | JW | ZE | Non-forest | Slope var<br>Aspect warm, n/a<br>Slope pos up, cr<br>SMR vx-x<br>Landform Cv/R, R<br>Drainage x, r | Paximyr<br>Spirbet<br>Pseumen | problem – relatively common unit – kt weights OR much higher than R, since using OR to delineate grasslands this kt will always score OR at least as high for this unit as for grassland, this may be preferable since rock outcrops are more common than grassland | JW |
| | Dry forest Fd leading | F | 29 | 03.04 | 04 | LJ LG* | ZF | FdPl open canopy | Slope 2+<br>Aspect var<br>Slope pos md,up<br>SMR sx-m<br>Landform var<br>Drainage w-r | Paximyr<br>Spirbet >10%<br>calarub<br>Vaccsco | May be difficult to distinguish environmentally from mesic.<br>Post-process: LJ with Fd leading remains this entity, with Pl leading goes to map entity 30,map code LG, – Pl-grouseberry-pinegrass. With Sx or Bl leading, goes to map entity 31 – Mesic forest, map code SF | (LJ or LG or SF) and (Sp1 = Fd or PY) |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MSdm2 | Pl-grouseberry-pinegrass | F | 30 | 04,03 | 05 | LG LJ* | ZG | PlFd open canope | Slope 2+<br>Aspect var<br>Slope pos md,up<br>SMR sx-m<br>Landform var<br>Drainage w- | Paximyr<br>Spirbet >10%<br>calarub<br>Vaccsco | Post-process this group with Fd leading goes to map entity 29 - Dry forest Fd leading map code LJ. With Pl leading remains here With Sx or Bl leading, goes to map entity 31 – Mesic forest, map code SF | (LJ or LG) and (Sp1 = Pl) |
| | Mesic Forest | F | 31 | 01,03, 04 | 06, 01, 07 | SF LJ LG* | ZH | Pl<br>PlSxBl | Slope 3-<br>Aspect var<br>Slope pos md,lv<br>SMR m<br>Landform Mb<br>Drainage m,w | Paximyr<br>Loniuta<br>Abielas<br>Vaccmem<br>Vaccsco<br>Linnbor<br>Orthsec<br>Pleusch | | (SF and LSP <> Fd and LSP <> PY) or ((LJ or LG) and (Sp1 = Sx or Bl)) (after ME36 removed) and LSP <> AT |
| | Sub-hygric forest | F | 32 | 05, 06 | 08, 09, 10, 11, 12 | SG, SD* | SM | SxBl<br>SxBlPl<br>PlSxBl | Slope 2-<br>Aspect na<br>Slope pos md, lw, to<br>SMR shg<br>Landform Mb, Fb<br>Drainage m-i | Vaccmem<br>Ribelac<br>Loniuta<br>Loniinv<br>Orthsec<br>Rubuped<br>Corncan<br>Tiaruni<br>Streamp<br>Pleushc<br>Brachyt | | SG or SD |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MSdm2 | Sx-horsetail-leafy moss | F | 33 | 07 | 13 | SH | SH | Sx(BlPl) | Slope 0<br>Aspect na<br>Slope pos lv, lw<br>SMR hg<br>Landform Fb, O<br>Drainage p-vp | Ribelac<br>Loniinv<br>Mitella sp<br>Galitri<br>>10% equiarv<br>brachyt<br>rhizmag | | SH |
| | Shrub-Wetland | W | 34 | N/A | 14, 15, 31, 33, 34 | SW | WE | <10% trees Sx | Slope 0<br>Aspect na<br>Slope pos lv, dp<br>SMR shd<br>Landform Fb, O<br>Drainage p-vp | Equiarv<br>Aster sp<br>Senetri<br>Calacan | | SW |
| | Herb-Wetland | W | 35 | N/A | 41-44, 32 | HW | GW | Non-forested | Slope 0<br>Aspect na<br>Slope pos lv, dp<br>SMR shd<br>Landform O<br>Drainage vp | sphagnum | | HW |
| | Aspen-pinegrass | A | 36 | 03,04, 01 | 21 | LJ, LG, SF* | AP | At | Slope 3+<br>Aspect warm<br>Slope pos mid<br>SMR sm<br>Landform Mb<br>Drainage w | Elymus sp<br>Calarub<br>Fragves<br>astecon | Based on 1 plot Post-process from map entity 29, Dry Forest, map code LJ, map entity 30, Pl-grouseberry-pinegrass, map code LG and map entity 31,Mesic Forest, map code SF with At leading | (LJ or LG or SF) and (Sp1 = At) |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MSxk | Grasslands | G | 37 | 03,04 | 91-93 | WJ,VP* | GL | Non-forested | Slope 3+<br>Aspect warm<br>Slope pos up, cr<br>SMR vx-sx<br>Landform var<br>Drainage r-w | Elymspi<br>Koelmac | | WJ or VP |
| MSxk | Talus | T | 38 | N/A | 71 | BT* | TA | <10% trees<br>AtPl | Slope 4+<br>Aspect warm<br>Slope pos var<br>SMR vx<br>Landform Cb<br>Drainage x | Junicom<br>Pensfru | Brushy talus was meant to describe alder dominated mesic to subhygric sites not non-forested rapidly drained talus **– need to develop new kt, kt attributes:** Terrain-Cb, nonforested FC – NCBR or R, steep slope | BT or ((Npdesc = R) and (Sm=C)) |
| | Rock outcrop | R | 39 | N/A | 02 | none | JP | <10% trees<br>Pl Fd | Slope var<br>Aspect warm<br>Slope pos up, cr<br>SMR vx-x<br>Landform R, Cv/R<br>Drainage x-r | Junicom<br>Arctuva<br>Cladonia sp<br>Polypil peltruf | **Need new kt, kt attributes** high weighting for NPDESC = R, Se=X, ecosoil=nosoil | Npdesc=R (after ME38 removed) (<> BT and SM <> C) |
| | Pl-Juniper-Grouseberry | F | 40 | 02 | 03 | DJ | LJ | <25% trees<br>Open Pl | Slope 2+<br>Aspect warm<br>Slope pos cr<br>SMR vx-sx<br>Landform C, Mv/R<br>Drainage r | Junicom<br>Vaccsco<br>Cladonia spp | | DJ |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MSxk | Fd-Pl-pinegrass-arnica | F | 41 | 05 | 04,01,06,07 | DA,LL,LF, ST | ZF | Fd Pl | Slope 3+ Aspect warm Slope pos md, up SMR sx-sm Landform Mb, Cv/R Drainage r-w | Shepcan Arctuva >15% calarub fragvir pleusch peltaph | If DA and Fd leading leave in this unit | (DA or LL or LF or ST) and (LSP = Fd or LSP = LW) |
| | Sub-xeric non-Fd stands | F | 42 | 05 | 05, 06 | DA* | LG | Pl | Slope var Aspect var Slope pos md SMR sx-m Landform Mb, Cb Drainage w | Paximy Calarub (variable, can be dominant) >10% vaccsco lupiarc linnbor pleusch peltaph | Post-processed from map entity 41 – Fd-Pl-pinegrass-arnica, map code DA without Fd leading | DA (after ME41, 48 removed) (LSP <> Fd or LSP <> LW or LSP <> AT) |
| | Mesic Forest | F | 43 | 01, 06, 07 | 01, 07, 08, 09 | LL, LF, ST* | ZG | Pl(Sx) | Slope 2+ Aspect cool Slope pos md SMR sm-m Landform Mb Drainage m | Loniuta Calarub > 5% vaccsco arnica sp linnbor orthsec corncan >20% pleusch | If Fd leading assign to map entity 41 Fd-Pl-pinegrass-arnica, map code DA | (LL or LF or ST) (after ME41, 43 removed) (LSP <> Fd or LSP <> LW or LSP <> AT) |
| | Sub-hygric Forest | F | 44 | 08 | 10, 11 | SG | SB | SxPl(Bl) PlSx(Bl) | Slope 2- Aspect na Slope pos to, lw SMR shg-hg Landform Fb, FG Drainage i | Vaccsco Arnica sp Linnbor Orthsec Rubuped Corncan Valesit Pleusch | Two components(Feb 2002 site units) are quite variable floristically | SG |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MSxk | Sx-horsetail-leafy moss | F | 45 | 09 | 12 | SH | SH | < 35% trees Sx | Slope 1<br>Aspect na<br>Slope pos dp, lv, to<br>SMR hg-shd<br>Landform F, Ob<br>Drainage p | Ribelac<br>Loniinv<br>Vaccsco<br>Linnbor<br>Corncan<br>Mitella sp<br>>10% equiarv ptilcri rhizmag aulapal | | SH |
| | Shrub Wetlands | W | 46 | N/A | 13, 31, 32 | SW | WE | < 10% trees | Slope 1<br>Aspect na<br>Slope pos lv, dp<br>SMR hg-shd<br>Landform Ob<br>Drainage v | Salix sp<br>Carex sp<br>Aulapal | | SW |
| | Herb Wetland | W | 47 | N/A | 41 | HW | GW | Non-forested | Slope 0<br>Aspect na<br>Slope pos dp, lv<br>SMR shd<br>Landform O<br>Drainage v | Carex sp | Variable vegetation | HW |
| | Aspen-pinegrass | A | 48 | 05,06, 01,07 | 21 | DA, LF,LL, ST* | AP | < 10% trees<br>At | Slope 4+<br>Aspect warm<br>Slope pos ?<br>SMR sx-sm<br>Landform var<br>Drainage w | Arctuva<br>> 10% calarub | Map codes DA, LF,LL, ST, map entities 41, 43, Fd Pl pinegrass-arnica, or mesic forest, with At leading | (DA or LF or LL or ST) and (Sp1 = At) |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ESSFxc | Talus | T | 49 | N/A | 71 | BT* | TA | Non-forested | Slope 3+<br>Aspect var<br>Slope pos var<br>SMR vx<br>Landform Cb<br>Drainage x | | More or less Non-vegetated, Brushy talus was meant to describe alder dominated mesic to subhygric sites not non-forested rapidly drained talus **– need to develop new kt, kt attributes:** Terrain-Cb, nonforested FC – NCBR or R, steep slope | BT or ((Npdesc = R) and (Sm=C)) |
| ESSFxc | Pl-Juniper-lupine | R | 50 | 02 | 02 | LJ* | JL | < 10% Pl | Slope var<br>Aspect var<br>Slope pos cr, up<br>SMR vx-x<br>Landform Cv/R, Mv/R, R<br>Drainage x | Junicom<br>Abielas<br>Lupiarc<br>> 5%<br>vaccsco | May be difficult to distinguish from other rock outcrops, 10 of 17 plots had <10 % tree cover<br>LJ with <10% tree cover or NPDESC=R or OR goes to rock outcrop map entity 51 otherwise = LJ | LJ (after ME 51 removed) and (C > 10%) |
| | Non-treed Rock Outcrop | R | 51 | 06 | 03 | LJ* | JP | Non-forested | Slope 3+<br>Aspect warm<br>Slope pos cr, up<br>SMR vx-sx<br>Landform C<br>Drainage r-x | Junicom<br>Seladen<br>Sedulan<br>Arencap<br>Saxibro<br>Trisspi<br>Achimil<br>polypil | Floristically poorly differentiated from map entity 50<br>LJ with <10% tree cover or NPDESC=R or OR goes to rock outcrop map entity 51 | LJ and (C <= 10%) |
| | Warm aspect, shallow soil Grasslands | G | 52 | 03 | 91, 92 | WP | BB | Non-forested | Slope var<br>Aspect warm<br>Slope pos up, cr<br>SMR x-sx<br>Landform Mv/R, C<br>Drainage r, x | 10% elumspi<br>koelmac<br>artitri<br>junicom | Distinction in kb for two grassland relies heavily on drainage and soil depth, no use of elevation, see following comment, uncommon feature so may not be very important | WP |

Merritt Predictive Ecosystem Mapping – Map Entities

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ESSFxc | Cool aspect, deep soil Grasslands | G | 53 | 04 | 93-96 | SP | JY | Non-forested | Slope 2+<br>Aspect var<br>Slope pos md<br>SMR sx-m<br>Landform Mb<br>Drainage w | Achimil<br>Fragvir | Vegetation quite variable between units, these units are generally higher elevation >1900m than warm aspect (previous map entity) especially the oatgrass unit | SP |
| | Pl-pinegrass-grouseberry | F | 54 (do not recognize) | | 04 | none | | Pl | Slope 3+<br>Aspect warm<br>Slope pos md, up<br>SMR sx, sm<br>Landform Mb<br>Drainage w | Junicom<br>> 10%<br>calarub<br>lupiarc<br>> 10%<br>vaccsco<br>arnilat | There is a note on the table regarding lumping with 05/01 as this is seen in Merritt area only rarely, was thought this unit was restricted elevationally - data from long tables indicates this unit is found at same mean elevation as rest of forested units | DROPPED |
| | Mesic Forest | F | 55 | 05, 01 | 05-ms, 05, 01, 06, 07, 04 | FC, FG* | PG | Pl<br>PlSe<br>BlSe<br>SeBl<br>SeBlPl | Slope var<br>Aspect var<br>Slope pos md<br>SMR sm, m<br>Landform Mb<br>Drainage w | Vaccmem<br>> 20%<br>vaccsco<br>linnbor<br>rubuped<br>Dicranum sp<br>> 5%<br>pleusch | | FC or FG |
| | Cool aspect Mesic Forest | F | 56 | 06 | 08, 09 | FR | BR | BlSePl | Slope var<br>Aspect cool<br>Slope pos md<br>SMR m<br>Landform Mb<br>Drainage w | Vaccmem<br>> 15%<br>rhodalb<br>vaccsco<br>arnilat<br>Dicranum sp | Kb gives -5 for <10% slope, this occasionally occurs, so probably best if not weighted against flat slopes | FR |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ESSFxc | Sub-hygric Forest | F | 57 | 07 | 10, 11 | FF | BG | < 30% trees<br>Se<br>SeBl | Slope 2-<br>Aspect na<br>Slope pos md, to<br>SMR shg-shd<br>Landform var<br>Drainage i-p | Loniinv<br>Vaccsco<br>Arnilat<br>Veravir<br>Valesit<br>Mitella sp<br>Trolalb<br>Brachyt<br>Aulapal | | **FF** |
| | Bl-horsetail-glow moss | F | 58 | 08 | 12 | FH | SH | < 30% trees<br>Se | Slope 1<br>Aspect na<br>Slope pos lv, dp<br>SMR hg-shd<br>Landform Ov<br>Drainage p-v | Loniinv<br>Valesit<br>Mitella sp<br>Streamp<br>Trolalb<br>> 20% horsetail<br>Senetri<br>Brachyt<br>Aulapal | | FH |
| | Shrub Wetlands | W | 59 | 10 | 13, 31-33 | SW | WE | Non-forested | Slope 1<br>Aspect na<br>Slope pos dp, lv<br>SMR hg-shd<br>Landform Ob, F<br>Drainagep-v | Salix spp<br>Senetri<br>Calacan<br>sphagnum | | SW |
| | Herb Wetland | W | 60 | 09 | 41-44 | HW | GW | Non-forested | Slope 1<br>Aspect na<br>Slope pos dp, lv<br>SMR shd<br>Landform Ob<br>Drainage p-v | Carex spp<br>sphagnum | | HW |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ESSFxc | Ds-herb-grass | | SH | N/A | | DH | DH | | | | This unit is alder thickets, not included in BEC guide or summary table, uses Alpine, alpine forest and meadow FC NPDESC heavily. Is it to be mapped? | DH |
| | Open Balsam forest | | OB | N/A | | OB | ZO | | | | Dry open transitional to parkland forest, relies heavily on alpine forest, is this to be mapped? | OB |
| | Alpine heath | | AH | N/A | | | AH | | | | Meadows on thin soils, relies heavily on alpine and meadow in NPDESC, transition to parkland, no elevation rules, is this to be mapped? | AH |
| ESSFdc2 | Rock outcrop | R | 61 | 02 | 02, 03 | JP | ZP | Non-forested – very open forest (< 20% trees) | Slope var<br>Aspect var<br>Slope pos cr, up<br>SMR vx-x<br>Landform R, Cv/R<br>Drainage x | Junicom | Units are variable WRT vegetation, kt logic flawed for aspect cool aspects less likely than warm or cold[1], slope class 1 rated 0 while class 5 rated 4, class one is twice as common in data | JP |

[1] this only holds if k = cool as in BEC nomenclature, in input data report k=cold, if this correct then comment does not stand.

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ESSFdc2 | Warm aspect, dry forest | F | 62 | 03, 04 | 04, 05 | LF | PG | Pl<br>Pl(Bl) | Slope 2+<br>Aspect warm<br>Slope pos up, md<br>SMR x-sm<br>Landform Mb<br>Drainage w | Paximyr<br>Vaccmem<br>Vaccsco<br>Lupiarc<br>Arnilat | Absence of Se separates this from moister units (recognized in kt), logic flawed for aspect - cool aspects less likely than warm or cold in S+As$^2$, 1990 04 and 05 were lumped in Oikos knowledge tables (FF), this unit best described by only LF (03) table on basis of stand and environment of new lump | LF |
| | Mesic Forest | F | 63 | 05, 01 | 06, 01 | FF, FR* | BG | SeBlPl | Slope var<br>Aspect var<br>Slope pos md<br>SMR m<br>Landform Mb<br>Drainage w-m | Vaccmem<br>Rhodalb<br>Vaccsco<br>Arnilat<br>Orthsec<br>Rubuped<br>Valesit<br>Dicranum sp | | FF or FR |
| | Sub-hygric Forest | F | 64 | 06, 07, 08 | 07, 08, 10 | FO, FV, FT* | BB | SeBl(Pl) | Slope 2-<br>Aspect na<br>Slope pos md<br>SMR shg-hg<br>Landform Mb<br>Drainage m-i | Vaccmem<br>Rhodalb<br>Ribelac<br>Loniinv<br>Vaccsco<br>Arnilat<br>Orthsec<br>Rubuped<br>> 5% valesit<br>veravir<br>tiaruni<br>thalocc<br>brachyt | The Bl-trapper's tea is quite different floristically, but impossible to split out, | (FO or FV or FT)<br>(after ME65 and ME66 removed)<br><br>64 Is the default, this must be run with 65 and 66 when post processing. |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ESSFdc2 | Se-Horsetail | F | 65 | 06 07 08 | 12 | FO FV FT* | ZQ | Se(Bl) | Slope 1<br>Aspect na<br>Slope pos to, lw, lv<br>SMR hg<br>Landform O, Fv/Mb<br>Drainage p | Ribelac<br>Loniinv<br>Rubuped<br>Valesit<br>Tiaruni<br>Mitella sp<br>Streamp<br>Senetri<br>> 15% equiarv | FO, FV, FT with slope=1, adjacent to wetlands, creeks, lake (CB may need to be revised to pull in lakes and wetlands) and Sm=O; if crown closure >10% then this unit (65) if <10% then SW | (FO or FV or FT) and (Slope<=10 %) and (Sm=O) and (CC >10%) |
| | Shrub Wetland | W | 66 | 06 07 08 | 31-34, 13 | SW FO FV FT | WE | Non-forested | Slope 1<br>Aspect na<br>Slope pos dp, to<br>SMR hg-shd<br>Landform O<br>Drainage p-v | Salix sp<br>Aster spp<br>Senetri<br>Equiarv<br>Calacan<br>Carex spp<br>Aulapal | 13 unit (Se-bluejoint) has < 10% trees, should likely go to the shrub wetland, hence post process rule | (SW) or ((FO or FV or FT) and (Slope<=10 %) and (Sm=O) and (CC <= 10%)) |
| | Herb Wetland | W | 67 | 09 | 41-44 | HW | GW | Non-forested | Slope 1<br>Aspect na<br>Slope pos dp<br>SMR hg-shd<br>Landform O<br>Drainage p-v | Carex spp<br>Sphagnum<br>Aulapal | Veg variable between units | HW |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ESSFdc2 | Alder | ? | 68 | N/A | 09 | DH BT* | AS | Non-forested | Slope 3+ Aspect warm Slope pos md SMR sm Landform Mb Drainage w | > 40% Alnuvir | Based on one plot Rare unit, Ds – herb – grass Oikos alder thicket unit (DH) kt does not use M+NPDESC+S=M+NPBR+steep slopes, which might be useful, kt concentrates on alpine, alpine forest and meadow in FC NPDESC, however BT (brushy talus) does capture these steep morainal sites, might be best to use BT | (DH or BT) |
| | Meadow | ? | 69 | N/A | 11 | AH GR | VM | Non-forested | Slope 2- Aspect na Slope pos to SMR m-shg Landform var Drainage m-i | > 20% valesit aster sp potedis trolalb senetri caltlep > 20% bryuwei | Rare unit, alpine heath describes meadows but in transition to parkland, two plots in summary table were from low elevation, might use GR kt which uses only OR | (AH or GR) |
| | Open balsam forest | | OB | N/A | | OB | ZS | | | | Do you wish to map this unit, not part of agreed to map entities, need agreement from Dennis Lloyd | OB |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PPxh2, PPxh2a | Talus | T | 70 | N/A | 71, 72 | BT* | TA | Non-forested | Slope 4+<br>Aspect var<br>Slope pos var<br>SMR vx-x<br>Landform Cb<br>Drainage x-r | Amelaln<br>Elymspi | Units quite variable WRT veg because two components are cool and warm aspect<br>Brushy talus was meant to describe alder dominated mesic to subhygric sites not non-forested rapidly drained talus **– need to develop new kt, kt attributes:** Terrain-Cb, nonforested FC – NCBR or R, steep slope, drainage=x,r | BT or ((Npdesc = R) and (Sm=C)) |
| | Rock outcrop | R | 71 | 02 | 02 | DS | DS | Non-forested | Slope var<br>Aspect warm<br>Slope pos cr<br>SMR vx<br>Landform Cv/R, Mv/R, R<br>Drainage x-r | Ericnau<br>Amelaln<br>> 5%<br>seladen<br>elymspi<br>cladonia spp | | **DS** |
| | Selaginella | | 71a | 02 | 92 | DS | | Non-forested | Slope var<br>Aspect warm<br>Slope pos cr<br>SMR vx<br>Landform Cv/R, Mv/R, R<br>Drainage x-r | Seladens<br>Elymspi | Both this unit and the previous are rock outcrops. Dennis Lloyd indicates that this unit is to be mapped as adjacent to grassland (SF), while previous unit is adjacent to forested units.<br>DS adjacent to SF | DROPPED<br><br>(can't identify adjacency without creating new linework) |

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| BEC unit | Connotative Map Entity Name | Broad ecosystem type | Map Entity # | 1990 site series | Proposed site series Feb 2002 | Oikos KT Map code | Merritt PEM Site Series letter code | Stand attributes | Environmental attributes | Vegetation recognition criteria | comments | Post-processing logic |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PPxh2, PPxh2a | Grassland | G | 72 | 05 | 93-ys, 93, 91, 94, 95, 95-ys | SF | ZF | Non-forested | Slope var<br>Aspect var<br>Slope pos var<br>SMR sx-m<br>Landform var<br>Drainage w | Ericnau<br>Antenaria spp<br>Artefri<br>> 5%<br>elymspi<br>achimil<br>poasec | 95 and 95-ys were split out separate, but based on environmental tables they are not differentiated Dennis Lloyd agreed to lump | **SF** |
| | Sub-xeric to sub-mesic forest | F | 73 | 03 | 03, 04, 05-ys, 05, 05-ms | PW | ZP | Generally < 30% trees<br>Py<br>Py(Fd) | Slope var<br>Aspect var<br>Slope pos md<br>SMR sx-sm<br>Landform FG, C<br>Drainage w-r | Ericnau<br>Amelaln<br>Elymspi | May be difficult to pull out from 04/01 group, Dennis Lloyd agrees may have to accept that these can not be distinguished, crown closure too high for this unit in kt. | PW |
| | Mesic forest | F | 74 | 04, 01 | 06, 01-ys, 01 | PS PF* | ZT | PyFd<br>FdPy | Slope var<br>Aspect var<br>Slope pos md, lw<br>SMR m<br>Landform Mb<br>Drainage w | > 10%<br>elymspi<br>achimil<br>festcam | Dense crown closure weighted too highly in kts, particularly for PF Post-process cool and cold aspects with Fd leading, as map entity 75 - Fd-pinegrass-feathermoss | (PS or PF) (after ME75 and ME79 removed) ((aspect as = k or c) and (LSP <> Fd or LSP <> Py) or (aspect as = h w n) ) and LSP <> AT |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PPxh2, PPxh2a | Fd-pinegrass-feathermoss | F | 75 | 04 01 | 07 | PS PF* | ZU | Fd | Slope 2+<br>Aspect cool<br>Slope pos md<br>SMR shg- m<br>Landform F, FG<br>Drainage m | Sympalb<br>Amelaln<br>Shepcan<br>Calarub<br>Tortrur<br>Peltcan<br>Rhyttri<br>Peltabt<br>Pleusch<br>Hylospl | Post-process PS, PF with cool aspects and Fd leading | (PS or PF) and (Aspect = cool or cold) and (LSP = Fd or LSP = PY) |
| | FdPy – snowberry - saskatoon | | 75a | 06 | 08 | SS* | ZV | Fd, Py | From 1990 ecoguide<br>Slope=2-<br>Slope position lw, to<br>SMR shg<br>Landform Fb<br>Drainage m,i | Symbalb<br>Calarub<br>Amelaln | Not identified in summary table but discussion with Dennis Lloyd suggests that this unit ought to be mapped | **SS (after ME80 removed) and LSP <> AT)** |
| | Act-water birch | F | 76 | 07 | 09 | CW* | ZW | Act<br>ActFd | Slope 2-<br>Aspect na<br>Slope pos to, dp, gu<br>SMR shg-hg<br>Landform Fb<br>Drainage i | Sympalb<br>Amelaln<br>> 5%<br>Acergla<br>> 10%<br>Cornsto | | **CW (after ME77 removed)**<br><br>76 Is the default, this must be run with 77 and 81 when post processing |
| | Shrubby wetlands | W | 77 | 07 | 08, 09-ys | CW<br>SW* | WE | Non-forested | Slope 1<br>Aspect na<br>Slope pos to, lv<br>SMR shg-hg<br>Landform Fb<br>Drainage i-p | Sympalb<br>Betuocc | CW with less than 10% trees = this unit | (SW) or (CW and (CC <=10%)) (after ME81 removed) and LSP <> AT |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PPxh2, PPxh2a | Herb wetlands | W | 78 | N/A | 41-48 | HW | GW | Non-forested | Slope 1<br>Aspect na<br>Slope pos dp, lv<br>SMR hg-shd<br>Landform O, Fb<br>Drainage p-v | | Veg variable between units | HW |
| | Aspen-fescue | A | 79 | 01 04 | 21 | PS PF* | ZY | ? Scrub At | Slope 2+<br>Aspect cool<br>Slope pos md<br>SMR sm<br>Landform ?<br>Drainage w | Balssag<br>Elymspi<br>> 20%<br>Festcam | Based on one plot<br>Post-process mesic forest with At<br><br>PS and PF with At leading | (PS or PF) and (Sp1 = At) |
| | At-snowberry-rose | A | 80 | 06 | 22 | SS* | ZZ | At | Slope 2+<br>Aspect cool<br>Slope pos gu, md<br>SMR shg<br>Landform var<br>Drainage m | Sympalb<br>Shepcan<br>Spirbet<br>Rosanut<br>> 5%<br>Calarub<br>Astecon<br>Dicrsco | SS + At leading | SS and (Sp1 = At) |
| | At-horsetail | A | 81 | 07 | 23 | CW* | YZ | ? Scrub At | Slope 1<br>Aspect na<br>Slope pos lv<br>SMR shd<br>Landform Fb<br>Drainage p | Rosa spp<br>Equiarv<br>Carex spp<br>Drepanoclad us sp | Based on one plot<br><br>CW + aspen leading | CW and (Sp1 = At) |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IDFxh2, IDFxh2a | Talus | T | 82 | N/A | 71 | BT* | TA | Non-forested (scattered Fd) | Slope 4+<br>Aspect warm<br>Slope pos var<br>SMR x-vx<br>Landform Cb<br>Drainage x | Amelaln<br>Acergla<br>Elymspi<br>Tortrur | Brushy talus was meant to describe alder dominated mesic to subhygric sites not non-forested rapidly drained talus **– need to develop new kt, kt attributes:** Terrain-Cb, nonforested FC – NCBR or R, steep slope | BT or ((Npdesc = R) and (Sm=C)) |
| | Rock Outcrop | R | 83 | 02 | 02 | WR | WR | Non-forested | Slope 2+<br>Aspect var<br>Slope pos cr-md<br>SMR vx-sx<br>Landform Cv, R, Dx<br>Drainage x-r | > 10%<br>seladen<br>Elymspi<br>Tortrur | Kt suggests that crown closure can be as high as 45%, should never be >10% | WR |
| | Steep, south aspect Grasslands | G | 84 | 92 | 93-ys, 93 | GR* | BS | Non-forested | Slope 2+<br>Aspect warm<br>Slope pos md-up<br>SMR x-sm<br>Landform var<br>Drainage r | > 5%<br>Elymspi<br>Eriglin<br>Artefri<br>Poasec<br>Koelmac<br>Achimil | GR+warm or hot aspect, slope class 2 or greater, | GR and (Aspect = (warm, hot)) |
| | Gentle, moist Grasslands | G | 85 | 91, 93 | 91-ys, 91, 91-ms, 94-ys, 94 | GR* | FB | Non-forested | Slope 3-<br>Aspect var<br>Slope pos md<br>SMR sm-m<br>Landform Mb<br>Drainage w | Lupiser<br>Festcam<br>Koelmac | GR+cool or cold aspect or slope less than class 3 | GR and (Aspect = (cool, cold, neutral)) |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IDFxh2, IDFxh2a | Warm dry Fd Py forest | F | 86 | 03, 04 | 03, 04 | PB DW* | PS | < 25% trees, Open FdPy | Slope 3+<br>Aspect warm<br>Slope pos md-up<br>SMR x-sm<br>Landform var<br>Drainage r-w | Amelaln<br>> 10 %<br>Elymspi<br>Balssag<br>Achimil | PB kt should weight open canopy CCGRP 1 higher, classes 3 and 4 not at all | (PB or DW) (after ME90 removed) and LSP <> AT |
| | Mesic Forest | F | 87 | 05, 01 | 05, 06, 01 | PP DP* | FP | Fd | Slope 2+<br>Aspect var<br>Slope pos var<br>SMR sm-m<br>Landform var<br>Drainage w | Spirbet<br>Calarub<br>Rhyttri<br>Peltaph<br>Pleusch | New 05 floristically quite different<br>, DP weights very rapidly drained (X) as high as well drained - wrong | (PP or DP) (after ME91 removed) and LSP <> AT |
| | Fd-feathermoss | F | 88 | 06 | 07 | DF | FF | Fd | Slope 2+<br>Aspect cool<br>Slope pos md-lw<br>SMR sm-shg<br>Landform var<br>Drainage w | Sympalb<br>Spirbet<br>Calarub<br>Rhyttri<br>> 20%<br>pleusch<br>Hylospl | | DF |
| | Cw-Fd-Dogwood | F | 89 | 07 | 08 | RD* | FD | < 25% trees FdSx | Slope 3-<br>Aspect cool<br>Slope pos md, to, lv<br>SMR shg-hg<br>Landform var<br>Drainage m-i | Mahoaqu<br>> 5%<br>sympalb<br>Acergla<br>> 5%<br>betupap<br>Cornsto<br>Ribelac<br>Linnbor<br>Aralnud<br>Osmorhiza spp<br>Smilrac<br>Galitri | High crown closure weighted too high this is an open forest | RD ( after ME92 removed) and LSP <> AT also LSP <> AT and <> E and <> AC and = SH |

Merritt Predictive Ecosystem Mapping – Map Entities

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| BEC unit | Connotative Map Entity Name | Broad ecosystem type | Map Entity # | 1990 site series | Proposed site series Feb 2002 | Oikos KT Map code | Merritt PEM Site Series letter code | Stand attributes | Environmental attributes | Vegetation recognition criteria | comments | Post-processing logic |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IDFxh2, IDFxh2a | At-juniper-kinnikinnick | A | 90 | 03 04 | 21 | PB, DW* | AJ | Scrub At | Slope var<br>Aspect warm<br>Slope pos var<br>SMR m<br>Landform ?<br>Drainage w | Junisco<br>Sympalb<br>Junicom<br>Shepcan<br>Rosaaci<br>Arctuva<br>Lithrud<br>Viciame<br>Poapre | Based on one plot<br><br>Post-processed from map entity 86, Warm dry Fd Py forest, PB, DW with At leading | (PB or DW) and (Sp1 = At) |
| | At-fescue-pinegrass | A | 91 | 01 05 | 22 | PP, DP* | AP | Scrub At | Slope 2,3<br>Aspect cool<br>Slope pos md, lw<br>SMR sm-shg<br>Landform Mb<br>Drainage w | Sympalb<br>Amelaln<br>Rosaaci<br>Elymspi<br>Stipric<br>Festcam<br>Calarub | Post-processed from map entity 87, Mesic forest, PP, DP with At leading | (PP or DP) and (Sp1 = At) |
| | Sub-hygric At stands | A | 92 | 07 | 23-25 | RD* | YY | At<br>AtAct | Slope 1<br>Aspect na<br>Slope pos lw, lv<br>SMR shg<br>Landform F<br>Drainage i | Amelaln<br>Lathoch<br>Poapre<br>Osmorhiza spp<br>Violcan | Post-processe from map entity 89, Cw-Fd-Dogwood, RD with At leading | RD and (Sp1 = At)<br>Also LSP = AT or = E or = AC and = SH |
| | Shrubby wetlands | W | 93 | N/A | 31-33 | SW | WE | Non-forested | Slope 1<br>Aspect na<br>Slope pos lv<br>SMR shg-hg<br>Landform var<br>Drainage i | Poapra | Veg variable | SW |

Merritt Predictive Ecosystem Mapping – Map Entities

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| BEC unit | Connotative Map Entity Name | Broad ecosystem type | Map Entity # | 1990 site series | Proposed site series Feb 2002 | Oikos KT Map code | Merritt PEM Site Series letter code | Stand attributes | Environmental attributes | Vegetation recognition criteria | comments | Post-processing logic |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IDFxh2, IDFxh2a | Herb wetlands | W | 94 | N/A | 41-47 | HW | GW | Non-forested | Slope 1<br>Aspect na<br>Slope pos dp, lv<br>SMR shg-shd<br>Landform Fb, FGb, O<br>Drainage p-v | | Veg variable | HW |
| | Sxw - horsetail | | | 08 | | SH | | | | | No longer recognized, do not map | Leave alone for noew<br><br>? where to assign ? |
| IDFxh1, IDFxh1a | Talus | T | 95 | N/A | 71 | BT* | TA | Non-forested, Scattered Fd | Slope 4+<br>Aspect var<br>Slope pos var<br>SMR vx-sx<br>Landform Cb<br>Drainage x | Sympalb Amelaln Phillew elymspi | Brushy talus was meant to describe alder dominated mesic to subhygric sites not non-forested rapidly drained talus **– need to develop new kt, kt attributes:** Terrain-Cb, nonforested FC – NCBR or R, steep slope | BT or ((Npdesc = R) and (Sm=C)) |
| | Rock outcrop | R | 96 | N/A | 02, 92 | none | YX | Non-forested | Slope 2+<br>Aspect var<br>Slope pos up-cr<br>SMR vx-sx<br>Landform Cv, R<br>Drainage x | Amelaln Elymspi Seladen | Not recognized, **need to develop kt, kt attributes:** Terrain – veneers/R, R, NPDESC - R | Npdesc=R (after ME95 removed) |

Merritt Predictive Ecosystem Mapping – Map Entities

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| BEC unit | Connotative Map Entity Name | Broad ecosystem type | Map Entity # | 1990 site series | Proposed site series Feb 2002 | Oikos KT Map code | Merritt PEM Site Series letter code | Stand attributes | Environmental attributes | Vegetation recognition criteria | comments | Post-processing logic |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IDFxh1, IDFxh1a | Steep, Warm aspect Grasslands | G | 97 | 93 | 93-ys, 93, 94-ys, 94 | GR* | BB | Non-forested | Slope 3+<br>Aspect warm<br>Slope pos var<br>SMR sx-m<br>Landform var<br>Drainage w | Elymspi<br>Balssag<br>Zigaven<br>Bromtec | GR + warm and hot aspects + slope class 3+, Se=v | GR and (Aspect = (warm, hot)) |
| | Gentle slope, Warm aspect Grasslands | G | 98 | 91, 95, 96 | 91-ys, 91, 95-ys, 95, 96, 96-ms, 97, | GR* | BF | Non-forested | Slope 3-<br>Aspect var<br>Slope pos var<br>SMR sx-m<br>Landform Mb, var<br>Drainage w | Bromtec<br>Elymspi<br>Erioher<br>Stipocc<br>Cynooff<br>Lupiser<br>Festida<br>Koelmac<br>Poapre | Will be very difficult to distinguish this from previous map entity (97)steep warm aspect grasslands. A couple of warm steep units are found here<br>GR+ all aspect + slope class 3 or less, Se=b | GR (after ME97 removed) aspect = h w n |
| | Sub-xeric to sub-mesic open Fd Py stands | F | 99 | 02, 03 | 03, 04 | PB DW* | FB | < 25% trees<br>FdPy<br>PyFd | Slope 2+<br>Aspect var<br>Slope pos md-up<br>SMR sx-sm<br>Landform var<br>Drainage w | Amelaln<br>> 5%<br>Elymspi<br>Balssag<br>Achimil | DW ought not weight CCGRP3 (up to 65% crown closure) as a 2 | (PB or DW) |
| | Sub-mesic to mesic forest | F | 100 | 04 05 01 | 05, 06, 01 | SP DP PF* | FP | FdPy<br>PyFd | Slope 2+<br>Aspect var<br>Slope pos md-up<br>SMR sm-m<br>Landform var<br>Drainage w | Spirbet<br>Amelaln<br>Sympalb<br>> 10 %<br>Calarub | The only thing to pull out previous unit is greater crown closure, old 04 unit no longer recognized don't use SP kt. | **(SP or DP or PF) (after ME104 removed) and LSP <> AT** |

Merritt Predictive Ecosystem Mapping – Map Entities

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| BEC unit | Connotative Map Entity Name | Broad ecosystem type | Map Entity # | 1990 site series | Proposed site series Feb 2002 | Oikos KT Map code | Merritt PEM Site Series letter code | Stand attributes | Environmental attributes | Vegetation recognition criteria | comments | Post-processing logic |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IDFxh1, IDFxh1a | Mesic to sub-hygric forest | F | 101 | 06, 07 | 07, 08, 09-ys | DD* | FF | Fd<br>FdPy | Slope 2+<br>Aspect cool (var)<br>Slope pos md-lw<br>SMR m-shg<br>Landform Mb FGt<br>Drainage m | Mahoaqu<br>Sympalb<br>Amelaln<br>Spirbet<br>Calarub<br>Brachyt | | DD (after ME105 removed) **and LSP <> AT** |
| | Sub-hygric to hygric forest | F | 102 | 08 | 09, 09-ms | SD* | SD | Fd<br>FdEp<br>ActFdEp | Slope 1<br>Aspect na<br>Slope pos lw, lv, to, dp<br>SMR shg-hg<br>Landform F<br>Drainage i | Mahoaqu<br>Sympalb<br>Acergla<br>Cornsto | | SD (after ME103 and ME105 removed) and LSP <> SX and LSP <> AT and <> presence of CW (cw < 1) |
| | Sx-horsetail | F | 103 | 08 | 10 | SD* | SH | SxCwBl<br>Sx | Slope 1<br>Aspect na<br>Slope pos dp, lv<br>SMR shg<br>Landform Fb, Ob<br>Drainage i | Acergla<br>Ribehud<br>Cornsto<br>Orthsec<br>Osmorhiza spp<br>Smilste<br>> 5%<br>Equiarv<br>Brachyt | Kt could benefit by inclusion of presence of Spruce<br><br>Post-process from map entity 102, Sub-hygric to hygric forest, SD with Sx leading and/or Cw present; or Forested plus Organic | (SD and (Sp1 = Sx) or (Sp1-Sp6 = Cw)) (= presence of CW (cw > 0) |
| | Mesic to sub-mesic Aspen | A | 104 | 01 04 05 | 21-ys, 21 | SP DP PF* | AP | At | Slope 2+<br>Aspect var<br>Slope pos md-up<br>SMR sm-m<br>Landform var<br>Drainage w | Mahoaqu<br>Sympalb<br>Rosanut<br>Calarub<br>Poapre | Post-process from map entity 100, Sub-mesic to mesic forest (SP, DP) with At leading | (SP or DP or PF) and (Sp1 = At) |

Merritt Predictive Ecosystem Mapping – Map Entities

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| BEC unit | Connotative Map Entity Name | Broad ecosystem type | Map Entity # | 1990 site series | Proposed site series Feb 2002 | Oikos KT Map code | Merritt PEM Site Series letter code | Stand attributes | Environmental attributes | Vegetation recognition criteria | comments | Post-processing logic |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IDFxh1, IDFxh1a | Sub-hygric Aspen | A | 105 | 06 07 08 | 22, 23 | SD DD* | AD | At AtSx | Slope 3- Aspect cool Slope pos md-to SMR shg-hg Landform var Drainage i | Mahoaqu Sympalb Amelaln Acergla Cornsto Osmorhiza spp | Post-process from map entities 101,102, Mesic to sub-hygric forest,and Sub-hygric to hygric forest SD, DD with At leading | (SD or DD) and (Sp1 = At) |
| | Shrub Wetland | W | 106 | 09 | 30-32 | WS | WE | Non-forested | Slope 1 Aspect na Slope pos dp-lv SMR shg-hg Landform var Drainage i-p | Sympalb | | WS |
| | Herb Wetland | W | 107 | N/A | 40-45 | HW | GW | Non-forested | Slope 1 Aspect na Slope pos dp SMR hg-hd Landform O, L Drainage p-v | Carex spp | | HW |
| ESSFmw | Talus | T | 108 | N/A | 71 | BT* | TA | Non-forested | Slope 3+ Aspect var Slope pos var SMR vx Landform Cb Drainage x | Racomitrium sp | Brushy talus was meant to describe alder dominated mesic to subhygric sites not non-forested rapidly drained talus **– need to develop new kt, kt attributes:** Terrain-Cb, nonforested FC – NCBR or R, steep slope | BT or ((Npdesc = R) and (Sm=C)) |

Merritt Predictive Ecosystem Mapping – Map Entities

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| BEC unit | Connotative Map Entity Name | Broad ecosystem type | Map Entity # | 1990 site series | Proposed site series Feb 2002 | Oikos KT Map code | Merritt PEM Site Series letter code | Stand attributes | Environmental attributes | Vegetation recognition criteria | comments | Post-processing logic |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ESSFmw | Rock outcrops | R | 109 | 02 | 02, 03 | LJ | RO | Non-forested, <10 % trees, Pl | Slope var<br>Aspect var<br>Slope pos cr-md<br>SMR vx<br>Landform Cv/R, R<br>Drainage x | Vaccmem | Veg variable in the two components | LJ |
| | Fd-falsebox-pinegrass | F | 110 | 03 | 04 | DF | FP | PlFd(Se Bl) | Slope 2+<br>Aspect warm<br>Slope pos md<br>SMR sx-m<br>Landform Cv/Mb<br>Drainage w | Amelaln > 5%<br>Paximyr<br>Vaccmem<br>Calarub<br>Orthsec<br>Arnilat<br>Goodobl<br>Rhytrob | If Fd absent will be very difficult to distinguish from next unit, FH, kt does not weight warm and hot much more heavily than cool and neutral | DF |
| | Warm aspect without Fd | F | 111 | 04 | 05, 06 | FH | PG | BlPl(Se) | Slope var<br>Aspect warm<br>Slope pos md-up<br>SMR sx-m<br>Landform Cv/Mv, C<br>Drainage w-r | Paximyr<br>Vaccmem<br>Dicranum sp<br>Rhytrob | kt does not weight warm and hot much more heavily than cool and neutral | FH |
| ESSFmw | Mesic forest | F | 112 | 05 01 | 07, 08-ms, 08, 01-ms, 01 | FA FR* | BR | BlSe SeBl(Ba) BlSe(Pl) | Slope var<br>Aspect var<br>Slope pos md-lw<br>SMR m-sm<br>Landform Mb, C<br>Drainage w-mw | > 5%<br>Vaccmem<br>Rhodalb<br>Arnilat<br>Rubuped<br>Dicranum sp<br>Rhytrob<br>Brachyt | | (FA or FR) |

Merritt Predictive Ecosystem Mapping – Map Entities

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| BEC unit | Connotative Map Entity Name | Broad ecosystem type | Map Entity # | 1990 site series | Proposed site series Feb 2002 | Oikos KT Map code | Merritt PEM Site Series letter code | Stand attributes | Environmental attributes | Vegetation recognition criteria | comments | Post-processing logic |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ESSFmw | Bl-gooseberry-valerian | F | 113 | 06 | 09 | FV | SG | SeBl | Slope 3-<br>Aspect var<br>Slope pos lw-to<br>SMR shg<br>Landform Mb, Fb<br>Drainage i | Vaccmem<br>Rhodalb<br>Ribelac<br>Orthsec<br>Arnilat<br>Rubuped<br>> 5% Valesit<br>Tiaruni<br>Streamp<br>Brachyt<br>Veravir | | FV |
| | Bl-gooseberry-horsetail | F | 114 | 08 | 10 | FG FO | SH | BlSe | Slope 1<br>Aspect na<br>Slope pos to<br>SMR shg-hg<br>Landform Fb, Ob<br>Drainage i-p | Vaccmem<br>Rhodalb<br>Ribelac<br>Pedibra<br>Arnilat<br>Rubuped<br>Veravir<br>Valesit<br>Mitella sp<br>Tiaruni<br>Streamp<br>Trolalb<br>> 10%<br>Equiarv<br>Brachyt | | FG and FO |
| | Meadow | M | 115 | N/A | 61, 62 | AH | VS | Non-forested | Slope 1<br>Aspect na<br>Slope pos lv<br>SMR m-shg<br>Landform var<br>Drainage m | Achimil<br>Potedru | Veg variable, kt relies entirely on NPDESC= A or M, data is from low elevation and slope class 1, could add slope class to kt | AH |

Merritt Predictive Ecosystem Mapping – Map Entities

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| BEC unit | Connotative Map Entity Name | Broad ecosystem type | Map Entity # | 1990 site series | Proposed site series Feb 2002 | Oikos KT Map code | Merritt PEM Site Series letter code | Stand attributes | Environmental attributes | Vegetation recognition criteria | comments | Post-processing logic |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ESSFmw | Shrubby Avalanche Tracks | Av | 116 | N/A | 75-77 | DH | AH | Non-forested | Slope 3+<br>Aspect var<br>Slope pos var<br>SMR sx-m<br>Landform Cb<br>Drainage w-m | Alnuvir<br>Salix sp<br>Thalocc<br>Veravir<br>Epilang<br>Elymgla | No kt to approximate this, could add Gp=A, Af, Am, Aw, Ao with high weighting, e.g. 100, S=4+, NPDESC= A, NP | (Gp = (A or Af or Am or Aw or Ao)) and (Npdesc=NPBR) or DH |
| | Herb Avalanche Tracks | Av | 117 | N/A | 78 | none | BF | Non-forested | Slope 3-<br>Aspect var<br>Slope pos lw-md<br>SMR sm-m<br>Landform C<br>Drainage m | Achimil<br>Thalocc<br>Valesit<br>> 5% Epilang<br>Elymgla<br>> 5%<br>Calarub | No kt to approximate this, could add Gp=A, Af, Am, Aw, Ao with high weighting, e.g. 100, S=3-, NPDESC= A, M,OR | (Gp = (A or Af or Am or Aw or Ao)) (after ME116 removed) and Npdesc <> 'NPBR) |
| | Shrub Wetlands | W | 118 | N/A | 31 | SW | WE | Non-forested | Slope 1<br>Aspect na<br>Slope pos dp-lv<br>SMR hg-shd<br>Landform F<br>Drainage p | Salix sp<br>Pedibra<br>Trolalb<br>Leptpyr<br>Senetri<br>Equiarv<br>Calacan<br>Alaupal | Unit 41 was placed in shrub wetlands in error, not caught during July 23, 2002 meeting | SW |
| | Herb Wetlands | W | 119 | N/A | 41-43 | HW | GW | Non-forested | Slope 1<br>Aspect na<br>Slope pos dp-to<br>SMR hg-shd<br>Landform O<br>Drainage p | Carex spp<br>Erioang<br>Sphagnum | | HW |
| | BlBa – oak fern – lady fern | | | 07 | | FO | | | | | No longer recognized do not map | ? where to assign ?<br><br>DH went to entity 114 |

Merritt Predictive Ecosystem Mapping – Map Entities

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ESSFmw | Ds –herb grass,DH and open poor Bl forest, OB | | | | | | | | | | What to do with these units, not in map entities agreed to, because of lack of any other criteria, get ties for AH and DH and DH and OB based on kts | Leave alone for now<br><br>? where to assign ?<br><br>DH went to entity 116 |
| MSmw | Talus | | 120 | N/A | 71 | none | TA | Non-forested or <20% Pl | Slope var<br>Aspect warm<br>Slope pos var<br>SMR VX<br>Landform Cb<br>Drainage x, r | Junicom<br>Paximyr<br>Racomitrium | Use knowledge table for MSdm2 map entity 27 (modified BT kt) | BT or ((Npdesc = R) and (Sm=C))<br><br>Or ((LG or LJ) and LSP = " ") |
| | Kinnikinnik-rock-moss | | 121 | 02 | 02 | JW | YV | Non-forested or about 10% Fd | Slope 3<br>Aspect warm<br>Slope pos cr<br>SMR vx, x<br>Landform R<br>Drainage x, r | Arctuva<br>Dryppat<br>Racomitrium | Use knowledge table for MSdm2 map entity 28 (JW Oikos map code) | JW |
| | Fd-falsebox-pinegrass | | 122 | 03 04 01 | 03 | LJ LG SF* | FF | Fd (Pl) Pl | Slope 3+<br>Aspect warm<br>Slope pos var<br>SMR sm-x<br>Landform var<br>Drainage r, w | Paximyr<br>Rubupar<br>Disphoo<br>Astecon<br>>5% calarub<br>Chimumb<br>Orthsec<br>Clinuni<br>Smilrac | Use knowledge table for MSdm2 map entity 29 (LJ+ post process for Fd leading) | (LJ or LG or SF) and (LSP = Fd and LSP = PY) |

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| BEC unit | Connotative Map Entity Name | Broad ecosystem type | Map Entity # | 1990 site series | Proposed site series Feb 2002 | Oikos KT Map code | Merritt PEM Site Series letter code | Stand attributes | Environmental attributes | Vegetation recognition criteria | comments | Post-processing logic |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MSmw | Pl-grouseberry | | 123 | 03 04 | 04 | LJ LG* | PG | Pl | Slope var<br>Aspect warm or n/a<br>Slope pos var<br>SMR sx-sm<br>Landform Cb, FGt<br>Drainage r, w | Spirbet<br>Paximyr<br>>5%<br>Vaccsco<br>Dicranum | Use knowledge table for MSdm2 map entity 30 (LG + post processing for Pl leading) | (LJ or LG) and (LSP = Pl or LSP = Pa) |
| | Mesic forest | | 124 | 01 03 04 | 05, 01, 06 | SF LJ LG* | YU | Bl,Sxw<br>Sxw, Bl, Fd | Slope var<br>Aspect n/a or cool<br>Slope pos md<br>SMR sm-shg<br>Landform Mb<br>Drainage m | >5%<br>Vaccmem<br>Orthsec<br>Rhytrob<br>Pleusch | Use knowledge table for MSdm2 map entity 31 (SF), component site units variable floristically | (SF and LSP <> Fd) or ((LJ or LG) and (Sp1 = (Sx or Bl or AC or HW or CW))) |
| | Sub-hygric forest | | 125 | 05 06 | 07, 08 | SG SD* | SG | Sxw, Bl | Slope 3-<br>Aspect n/a, (cool)<br>Slope pos md-to<br>SMR Shg-hg<br>Landform Fb<br>Drainage i | Ribelac<br>Rubupar<br>Clinuni<br>Rubuped<br>Tiaruni<br>>5%<br>gymndry<br>Brachyt | Use knowledge table for MSdm2 map entity 32 (SG, SD) | (SG or SD) |
| | Sxw-common horsetail | | 126 | 07 | 09 | SH | SH | Sxw(Bl) | Slope 1<br>Aspect n/a<br>Slope pos to-lv<br>SMR hg,shd<br>Landform Fb (Ov)<br>Drainage p | Vaccmem<br>Ribelac<br>Alnuvir<br>Loniinv<br>Rubuped<br>Corncan<br>Epilang<br>Valesit<br>Brachyt<br>Rhizmag | Use MSdm2 map entity 33 (SH) | SH |

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| BEC unit | Connotative Map Entity Name | Broad ecosystem type | Map Entity # | 1990 site series | Proposed site series Feb 2002 | Oikos KT Map code | Merritt PEM Site Series letter code | Stand attributes | Environmental attributes | Vegetation recognition criteria | comments | Post-processing logic |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MSmw | Shrubby Avalanche Track | | 127 | N/A | 75, 76 | None | AF | Non-forested | Slope 3-<br>Aspect warm (n/a)<br>Slope pos lw-md<br>SMR sm-shg<br>Landform var<br>Drainage m | Streros<br>Thalocc<br>Calacan | Based on few plots, variable floristically<br>Appears to include both trach and runout zone units<br>Use knowledge table for ESSFmw map entity 116 | (Gp = (A or Af or Am or Aw or Ao)) and (Npdesc=NPBR) |
| | Blue wildrye-sitka-valerian Avalanche Track | | 128 | N/A | 77 | none | BV | Non-forested | One plot only<br>Slope<br>Aspect<br>Slope pos<br>SMR<br>Landform<br>Drainage | Valesit<br>Elymgla<br>Fragvir<br>Thalocc | Based on one plot, appears to be runout zone unit<br>Use knowledge table for ESSFmw map entity 117 | (Gp = (A or Af or Am or Aw or Ao)) (after ME127 removed) and (Npdesc<> NPBR) |
| | Shrub Wetland | | 129 | N/A | 31-33 | SW | WE | Non-forested | Slope 1<br>Aspect n/a<br>Slope pos to-dp<br>SMR Hg-shd<br>Landform O, Fb<br>Drainage p, v | Alnuvir<br>Equiarv<br>Calacan<br>>10% careaqu | Use knowledge table for MSdm2 map entity 34 (SW) | SW |
| | Herb Wetland | | 130 | N/A | 41-46 | HW | GW | Non-forested | Slope 1<br>Aspect n/a<br>Slope pos dp<br>SMR shd<br>Landform O<br>Drainage v,p | Carex spp | Variable floristically<br>Use knowledge table for MSdm2 map entity 35 (HW) | HW |

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| BEC unit | Connotative Map Entity Name | Broad ecosystem type | Map Entity # | 1990 site series | Proposed site series Feb 2002 | Oikos KT Map code | Merritt PEM Site Series letter code | Stand attributes | Environmental attributes | Vegetation recognition criteria | comments | Post-processing logic |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AT | Dry open parkland forest | | DP | N/A | | DP | DP | | Occurring on upper slopes, crests and rock outcrops; coarse-medium textured, very thin to thin soils over bedrock | Dry open parkland forest | Oikos complex unit; dry open parkland forest; complex of clumps of trees, on very dry hummocks and rock outcrops, interspersed with SL | DP |
| | Scrub-Lichen | | SL | N/A | | SL | SL | | Occurs on upper slopes, crests and rock outcrops; coarse-medium textured, very thin to thin soils | | Oikos complex unit; includes the S (Scrub) KFR unit described for the Coast Mountains AT in Lloyd et al. (1990), as well as the dry lichen Oikos unit. | SL |
| | Mistic Open Parkland Forest | | MP | N/A | | MP | MP | | Occurring on gentle-steep mid slopes and level hummocky terrain; moderately deep - deep, medium textured soil | | Oikos complex unit; mesic open parkland forest; complex of clumps of trees, on drier hummocks, interspersed with HG in depressions | MP |
| | Heath-Grass | | HG | N/A | | HG | HG | | (Mountain Heather dominated); medium SNR; mesic SMR | | Oikos complex unit; includes the H (heath) KFR unit for the Coast Mountains AT as described in Lloyd et al. (1990) and less amounts of Oikos grass unit; similar to BEU units: AH and SM | HG |

Merritt Predictive Ecosystem Mapping – Map Entities

Adapted from Biome Ecological Consultants Ltd. – Contract Report for NSIFS (July 24, 2002)

| BEC unit | Connotative Map Entity Name | Broad ecosystem type | Map Entity # | 1990 site series | Proposed site series Feb 2002 | Oikos KT Map code | Merritt PEM Site Series letter code | Stand attributes | Environmental attributes | Vegetation recognition criteria | comments | Post-processing logic |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AT | Moist (subhygric) Open Parkland Forest | | SP | N/A | | SP | SP | | Occurring on gentle-steep lower receiving slopes and toes; deep, medium textured soil; rich-medium SNR; subhygric-hygric SMR | | Oikos complex unit; moist open parkland forest; complex of clumps of trees, interspersed with HS in depressions | SP |
| | Moist Herb Meadow-Sedge | | HS | N/A | | HS | HS | | | | Oikos complex unit; includes the Oikos moist herb and sedge meadow unit (similar to the HM2 KFR unit for the Columbia Mountain AT) and also includes the ecologically similar Oikos unit DH from ESSFmw. Similar to BEU units: AM (Forb dominated) and SM (Forb | HS |
| | Shrub Wetlands | | SW | N/A | | SW | WE | | subhydric - hygric SMR | | Oikos unit; includes all shrub wetlands | SW |

Merritt Predictive Ecosystem Mapping – Map Entities

Adapted from Biome Ecological Consultants Ltd. – Contract Report for NSIFS (July 24, 2002)

| BEC unit | Connotative Map Entity Name | Broad ecosystem type | Map Entity # | 1990 site series | Proposed site series Feb 2002 | Oikos KT Map code | Merritt PEM Site Series letter code | Stand attributes | Environmental attributes | Vegetation recognition criteria | comments | Post-processing logic |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AT | Herb Wetlands | | HW | N/A | | HW | GW | | | | Oikos unit; includes the SM (Sedge meadow) KFR unit for the Coast Mountains AT as described in Lloyd et al. (1990); as well as sedge fens, wet meadows and all other herb wetlands; also includes BEU units: SM (sedge dominated) and AM (sedge dominated); sub | HW |
| | Talus | | TA | N/A | | TA | TA | | | | TEM unit; as described in Table 3.1 of TEM standards; sparsely or non-vegetated | TA |
| | Brushy Talus | | BT | N/A | | BT | BT | | Occurring mainly on colluvium, medium to rich SNR | | Oikos unit, non-forested, mesic to subhygric seepage areas dominated by alders and forbs | BT |
| | Rock Outcrop | | RO | N/A | | RO | RO | | | | TEM unit; as described in Table 3.1 of TEM standards; sparsely or non-vegetated; also includes areas of ice and permanent snow; and also includes BEU units: AN and AU. | RO |

| BEC unit | Connotative Map Entity Name | Broad ecosystem type | Map Entity # | 1990 site series | Proposed site series Feb 2002 | Oikos KT Map code | Merritt PEM Site Series letter code | Stand attributes | Environmental attributes | Vegetation recognition criteria | comments | Post-processing logic |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AT-Emwp | Dry Closed Forest | | DF | N/A | | DF | DF | | Poorer SNR; subxeric - very xeric SMR | | Oikos unit; dry closed forest occuring on upper slopes, crests and rock outcrops; coarse-medium textured, very thin to thin soils over bedrock; ecologically similar to drier units LJ and DF of ESSFmw | DF |
| | Dry Open Parkland Forest | | DP | N/A | | DP | DP | | Occurring on upper slopes, crests and rock outcrops; coarse-medium textured, very thin to thin soils over bedrock; ecologically similar to OB unit of ESSFmw; similar to dry WP BEU unit; poorer SNR; subxeric - very xeric SMR | | Oikos complex unit; dry open parkland forest; complex of clumps of trees, on very dry hummocks and rock outcrops, interspersed with SL | DP |

Merritt Predictive Ecosystem Mapping – Map Entities

Adapted from Biome Ecological Consultants Ltd. – Contract Report for NSIFS (July 24, 2002)

| BEC unit | Connotative Map Entity Name | Broad ecosystem type | Map Entity # | 1990 site series | Proposed site series Feb 2002 | Oikos KT Map code | Merritt PEM Site Series letter code | Stand attributes | Environmental attributes | Vegetation recognition criteria | comments | Post-processing logic |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AT-Emwp | Scrub-Lichen | | SL | N/A | | SL | SL | | Occurs on upper slopes, crests and rock outcrops; coarse-medium textured, very thin to thin soils over bedrock; ecologically similar to openings of the OB unit of ESSFmw; poorer SNR; subxeric - very xeric SMR | | Oikos complex unit; includes the S (Scrub) KFR unit described for the Coast Mountains AT in Lloyd et al. (1990), as well as the dry lichen Oikos unit. | SL |
| | Mesic Closed Forest | | MF | N/A | | MF | MF | | Occurring on gentle-steep mid slopes and level; moderately deep - deep, medium textured soil; ecologically similar to mesic units FR and FH of ESSFmw; medium-poor SNR; submesic - mesic SMR | | Oikos unit; mesic closed forest SMR | MF |

| BEC unit | Connotative Map Entity Name | Broad ecosystem type | Map Entity # | 1990 site series | Proposed site series Feb 2002 | Oikos KT Map code | Merritt PEM Site Series letter code | Stand attributes | Environmental attributes | Vegetation recognition criteria | comments | Post-processing logic |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AT-Emwp | Mesic Open Parkland Forest | | MP | N/A | | MP | MP | | Occurring on gentle-steep mid slopes and level hummocky terrain; moderately deep - deep, medium textured soil; similar to mesic WP BEU unit; medium-poor SNR; submesic - mesic SMR | | Oikos complex unit; mesic open parkland forest; complex of clumps of trees, on drier hummocks, interspersed with HG in depressions; | MP |
| | Heath-Grass | | HG | N/A | | HG | HG | | medium SNR; mesic SMR | | Oikos complex unit; includes the H (heath) KFR unit for the Coast Mountains AT as described in Lloyd et al. (1990) and less amounts of Oikos grass unit; similar to BEU units: AH and SM (Moutain Heather dominated); | HG |

| BEC unit | Connotative Map Entity Name | Broad ecosystem type | Map Entity # | 1990 site series | Proposed site series Feb 2002 | Oikos KT Map code | Merritt PEM Site Series letter code | Stand attributes | Environmental attributes | Vegetation recognition criteria | comments | Post-processing logic |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AT-Emwp | Moist (subhygric Closed Forest | | SF | N/A | | SF | SF | | Occurring on gentle-steep lower receiving slopes and toes; deep, medium textured soil; ecologically similar to subhygric units FA and FV of ESSFmw; rich-medium SNR; subhygric-hygric SMR | | Oikos unit; moist closed forest. | SF |
| | Moist (subhygric) Closed Forest | | SP | N/A | | SP | SP | | Deep, medium textured soil; rich-medium SNR; subhygric-hygric SMR | | Oikos complex unit; moist open parkland forest; complex of clumps of trees, interspersed with HS in depressions; occuring on gentle-steep lower receiving slopes and toes | SP |

| BEC unit | Connotative Map Entity Name | Broad ecosystem type | Map Entity # | 1990 site series | Proposed site series Feb 2002 | Oikos KT Map code | Merritt PEM Site Series letter code | Stand attributes | Environmental attributes | Vegetation recognition criteria | comments | Post-processing logic |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AT-Emwp | Brushy Moist Herb Meadow-Sedge | | HS | N/A | | HS | HS | | Occurs on gentle-steep lower receiving slopes, toes, mid-lower avalanche tracks and in depressions; deep, medium textured soil; rich-medium SNR; hygric-subhygric SMR | | Oikos complex unit; includes the Oikos moist herb and sedge meadow unit (similar to the HM2 KFR unit for the Columbia Mountain AT) and also includes the ecologically similar Oikos unit DH from ESSFmw. Similar to BEU units: AM (Forb dominated) and SM (Forb dominated | HS |
| | Shrub Wetlands | | SW | N/A | | SW | WE | | subhydric - hygric SMR | | Oikos unit; includes all shrub wetlands | SW |
| | Herb Wetlands | | HW | N/A | | HW | GW | | subhydric - hygric SMR | | Oikos unit; includes the SM (Sedge meadow) KFR unit for the Coast Mountains AT as described in Lloyd et al. (1990); as well as sedge fens, wet meadows and all other herb wetlands; also includes BEU units: SM (sedge dominated) and AM (sedge dominated) | HW |
| | Talus | | TA | N/A | | TA | TA | | | | TEM unit; as described in Table 3.1 of TEM standards; sparsely or non-vegetated | TA |

Merritt Predictive Ecosystem Mapping – Map Entities

Adapted from Biome Ecological Consultants Ltd. – Contract Report for NSIFS (July 24, 2002)

| BEC unit | Connotative Map Entity Name | Broad ecosystem type | Map Entity # | 1990 site series | Proposed site series Feb 2002 | Oikos KT Map code | Merritt PEM Site Series letter code | Stand attributes | Environmental attributes | Vegetation recognition criteria | comments | Post-processing logic |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AT-Emwp | Brushy Talus | | BT | N/A | | BT | BT | | Mainly on colluvium, medium to rich SNR | | Oikos unit, non-forested, mesic to subhygric seepage areas dominated by alders and forbs | BT |
| | Rock Outcrop | | RO | N/A | | RO | RO | | | | TEM unit; as described in Table 3.1 of TEM standards; sparsely or non-vegetated; also includes areas of ice and permanent snow; and also includes BEU units: AN and AU. | RO |
| | Bluebunch wheatgrass-Selaginella | | WS | N/A | | WS | WS | | | | As described in Lloyd et al. (1990) | WS |
| | Py-Red three-awn | | PT | N/A | | PT | PT | | | | As described in Lloyd et al. (1990) | PT |
| | Py-Bluebunch wheatgrass | | PW | N/A | | PW | PW | | | | As described in Lloyd et al. (1990) | PW |
| | Big sage-Needle-and-thread grass | | SN | N/A | | SN | SN | | | | As described in Lloyd et al. (1990) | SN |

| BEC unit | Connotative Map Entity Name | Broad ecosystem type | Map Entity # | 1990 site series | Proposed site series Feb 2002 | Oikos KT Map code | Merritt PEM Site Series letter code | Stand attributes | Environmental attributes | Vegetation recognition criteria | comments | Post-processing logic |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BGxh2 | Big sage-Bluebunch Wheatgrass | | SW | N/A | | SW | SW | | | | As described in Lloyd et al. (1990) | SW |
| | Roungh Fescur-Bluebunch wheatgrass | | FW | N/A | | FW | FW | | | | As described in Lloyd et al. (1990), also occurs in gullies | FW |
| | Act-Snowberry-Dogwood | | CD | N/A | | CD | CD | | | | As described in Lloyd et al. (1990), also occurs on active floodplains | CD |
| | Wolly sedge-Arctic rush | | SR | N/A | | SR | SR | | | | As described in Lloyd et al. (1990) | SR |
| BGxh2 | Shrub Wetlands | | BW | N/A | | BW | WE | | | | *New Oikos unit and letter code, all non-forested shrub wetlands; includes BEU units: SC, SH, SW | BW |
| BGxw1 | Bluebunch wheatgrass-Selaginella | | WS | N/A | | WS | WS | | | | As described in Lloyd et al. (1990) | WS |

| BEC unit | Connotative Map Entity Name | Broad ecosystem type | Map Entity # | 1990 site series | Proposed site series Feb 2002 | Oikos KT Map code | Merritt PEM Site Series letter code | Stand attributes | Environmental attributes | Vegetation recognition criteria | comments | Post-processing logic |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BGxw1 | Py-Bluebunch wheatgrass | | PW | N/A | | PW | PW | | | | As described in Lloyd et al. (1990) | PW |
| | Big sage-Bluebunch wheatgrass | | SW | N/A | | SW | SW | | | | As described in Lloyd et al. (1990) | SW |
| | Bluebunch wheatgrass-Junegrass | | WJ | N/A | | WJ | WJ | | | | As described in Lloyd et al. (1990) | WJ |
| | Py-Roungh Fescure-Bluebunch wheatgrass | | PF | N/A | | PF | PF | | | | As described in Lloyd et al. (1990) | PF |
| | Rough Fescue-Bluebunch wheatgrass | | FW | N/A | | FW | FW | | | | As described in Lloyd et al. (1990) | FW |
| | Giant Wildrye | | GR | N/A | | GR | GR | | | | As described in Lloyd et al. (1990), also occurs in gullies | GR |

Merritt Predictive Ecosystem Mapping – Map Entities

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| BEC unit | Connotative Map Entity Name | Broad ecosystem type | Map Entity # | 1990 site series | Proposed site series Feb 2002 | Oikos KT Map code | Merritt PEM Site Series letter code | Stand attributes | Environmental attributes | Vegetation recognition criteria | comments | Post-processing logic |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BGxw1 | At-Snowberry-Kentucky bluegrass | | AS | N/A | | AS | AS | | | | As described in Lloyd et al. (1990), also occurs on active floodplains | AS |
| | Salt-grass-Sedge | | SS | N/A | | SS | SS | | | | As described in Lloyd et al. (1990) | SS |
| | Shrub Wetlands | | BW | N/A | | BW | WE | | | | *New Oikos unit and letter code, all non-forested shrub wetlands; includes BEU units: SC, SH, SW | BW |
| CWHms1 | Fd Pl-Kinnikinnick | | DK | N/A | | DK | DK | | occurs on crests, rock outcrops and upper slopes, with shallow soils, usually on south aspects | | As described in Green et al (1994) | DK |
| | Fd Hw-Fasebox | | DF | N/A | | DF | DF | | occurs on steep-gentle, upper-mid slopes | | As described in Green et al (1994) | DF |
| | Hw Ba-Step moss | | AM | N/A | | AM | AM | | occurs on steep-gentle, mid slopes | | As described in Green et al (1994) | AM |

Merritt Predictive Ecosystem Mapping – Map Entities

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| BEC unit | Connotative Map Entity Name | Broad ecosystem type | Map Entity # | 1990 site series | Proposed site series Feb 2002 | Oikos KT Map code | Merritt PEM Site Series letter code | Stand attributes | Environmental attributes | Vegetation recognition criteria | comments | Post-processing logic |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CWHms1 | Ba Cw-Oak Fern | | AO | N/A | | AO | AO | | occurs on steep slopes | | As described in Green et al (1994) | AO |
| | Hw Ba-Queen's cup | | HQ | N/A | | HQ | HQ | | occurs on gentle lower receiving slopes | | As described in Green et al (1994) | HQ |
| | Ba Cw-Devil's Club | | AD | N/A | | AD | AD | | occurs on steep, seepage slopes and gullies | | As described in Green et al (1994) | AD |
| | Ss-Salmonberry Act-Red-osier dogwood | | SC | N/A | | SS/CD | YT | | active fluvial floodplain high and mid bench | | Oikos assigned letter code from SS/CD. As described in Green et al (1994), | SS/CD = SC in the KB should actually be = YT |
| | Act-Willow | | CW | N/A | | CW | CW | | active fluvial floodplain low bench | | As described in Green et al (1994) | CW |
| | Pl-Sphagnum | | LS | N/A | | LS | LS | | treed bog, occuring on level ground and in depressions | | As described in Green et al (1994) | LS |

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| BEC unit | Connotative Map Entity Name | Broad ecosystem type | Map Entity # | 1990 site series | Proposed site series Feb 2002 | Oikos KT Map code | Merritt PEM Site Series letter code | Stand attributes | Environmental attributes | Vegetation recognition criteria | comments | Post-processing logic |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CWHms1 | Cw Ss-Skunk cabbage | | RC | N/A | | RC | RC | | treed swamp, poorly drained, occuring on level ground and in depressions | | As described in Green et al (1994) | RC |
| | Herb Wetland | | HW | N/A | | HW | WE | | | | New Oikos unit, all non-forested sedge fens and herb wetlands; includes BEU units: BG, FE, ME, MR | HW |
| | Shrub Wetland | | SW | N/A | | SW | GW | | | | New Oikos unit, all non-forested shrub wetlands; includes BEU units: SC, SH, SW | SW |
| | Burshy Talus | | BT | N/A | | BT | BT | | | | New Oikos unit, non-forested, mesic to subhygric seepage areas dominated by alders and forbs; mainly on colluvium, medium to rich SNR | BT |

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| BEC unit | Connotative Map Entity Name | Broad ecosystem type | Map Entity # | 1990 site series | Proposed site series Feb 2002 | Oikos KT Map code | Merritt PEM Site Series letter code | Stand attributes | Environmental attributes | Vegetation recognition criteria | comments | Post-processing logic |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ESSFdc2p | Dry Closed Forest | | DF | N/A | | DF | DF | | occuring on upper slopes, crests and rock outcrops; coarse-medium textured, very thin to thin soils over bedrock; ecologically similar to drier units LJ and LF of ESSFdc2 and LJ, PJ and FC of ESSFxc; poorer SNR; subxeric - very xeric SMR | | Oikos unit; dry closed forest | DF |

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| BEC unit | Connotative Map Entity Name | Broad ecosystem type | Map Entity # | 1990 site series | Proposed site series Feb 2002 | Oikos KT Map code | Merritt PEM Site Series letter code | Stand attributes | Environmental attributes | Vegetation recognition criteria | comments | Post-processing logic |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ESSFdc2p | Dry Open Parkland Forest | | DP | N/A | | DP | DP | | occuring on upper slopes, crests and rock outcrops; coarse-medium textured, very thin to thin soils over bedrock; ecologically similar to OB unit of ESSFdc2 and ESSFxc; similar to the dry atypical FP BEU unit; poorer SNR; subxeric - very xeric SMR | | Oikos complex unit; dry open parkland forest; complex of clumps of trees, on very dry hummocks and rock outcrops, interspersed with SD | DP |

| BEC unit | Connotative Map Entity Name | Broad ecosystem type | Map Entity # | 1990 site series | Proposed site series Feb 2002 | Oikos KT Map code | Merritt PEM Site Series letter code | Stand attributes | Environmental attributes | Vegetation recognition criteria | comments | Post-processing logic |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ESSFdc2p | Scrub-Dry Herb Meadow | | SD | N/A | | SD | SD | | Occurs on upper slopes, crests and rock outcrops; coarse-medium textured, very thin to thin soils over bedrock; ecologically similar to openings of the OB unit of ESSFdc2 and ESSFxc; poorer SNR; subxeric - very xeric SMR | | Oikos complex unit; includes both the S (Scrub) and HM1 (dry herb meadow) KFR units described for the Thompson Plateau AT in Lloyd et al. (1990), as well as the dry lichen Oikos unit | SD |
| | Mesic Closed Forest | | MF | N/A | | MF | MF | | occuring on gentle-steep mid slopes and level; moderately deep - deep, medium textured soil; ecologically similar to mesic units FR and FV of ESSFdc2 and FG and FR of ESSFxc; medium-poor SNR; submesic - mesic SMR | | Oikos unit; mesic closed forest | MF |

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| BEC unit | Connotative Map Entity Name | Broad ecosystem type | Map Entity # | 1990 site series | Proposed site series Feb 2002 | Oikos KT Map code | Merritt PEM Site Series letter code | Stand attributes | Environmental attributes | Vegetation recognition criteria | comments | Post-processing logic |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ESSFdc2p | Mesic Open Parkland Forest | | MP | N/A | | MP | MP | | occuring on gentle-steep mid slopes and level hummocky terrain; moderately deep - deep, medium textured soil; similar to the typical FP BEU unit; medium-poor SNR; submesic - mesic SMR | | Oikos complex unit; mesic open parkland forest; complex of clumps of trees, on drier hummocks, interspersed with GS in depressions; | MP |
| | Grass-Sedge Mesic Meadow | | GS | N/A | | GS | GS | | medium SNR; mesic SMR | | KFR unit for the Thompson Plateau AT as described in Lloyd et al. (1990); similar to SG BEU unit | GS |

| BEC unit | Connotative Map Entity Name | Broad ecosystem type | Map Entity # | 1990 site series | Proposed site series Feb 2002 | Oikos KT Map code | Merritt PEM Site Series letter code | Stand attributes | Environmental attributes | Vegetation recognition criteria | comments | Post-processing logic |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ESSFdc2p | Moist (subhygric) Closed Forest | | SF | N/A | | SF | SF | | occuring on gentle-steep lower receiving slopes and toes; deep, medium textured soil; ecologically similar to subhygric-hygric units FO and FT of ESSFdc2 and FF and FH of ESSFxc; rich-medium SNR; subhygric-hygric SMR | | Oikos unit; moist closed forest | SF |
| | Moist (subhygric) Closed Forest | | SP | N/A | | SP | SP | | occuring on gentle-steep lower receiving slopes and toes; deep, medium textured soil; rich-medium SNR; subhygric-hygric SMR | | Oikos complex unit; moist open parkland forest; complex of clumps of trees, interspersed with HH in depressions | SP |

| BEC unit | Connotative Map Entity Name | Broad ecosystem type | Map Entity # | 1990 site series | Proposed site series Feb 2002 | Oikos KT Map code | Merritt PEM Site Series letter code | Stand attributes | Environmental attributes | Vegetation recognition criteria | comments | Post-processing logic |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ESSFdc2p | Heath-Moist Herb Meadow | | HH | N/A | | HH | HH | | Occurs on gentle-steep lower receiving slopes, toes, mid-lower avalanche tracks and in depressions; deep, medium textured soil; rich-medium SNR; hygric-subhygric SMR | | Oikos complex unit; includes the H (Heath) KFR unit described for the Thompson Plateau AT in Lloyd et al. (1990), Oikos moist herb and sedge meadow unit (similar to the HM2 KFR unit for the Columbia Mountain AT) and also includes the ecologically similar Oikos unit DH from ESSFdc2 and ESSFxc. Similar to BEU units: AH, SM (Forb dominated and mountain heather dominated) and AM (Forb dominated). | HH |
| | Herb Wetlands | | HW | N/A | | HW | GW | | subhydric - hygric SMR | | Oikos unit; includes sedge fens, wet sedge meadows and all other herb wetlands; includes BEU units: SM (sedge dominated) and AM (sedge dominated); | HW |
| | Shrub Wetlands | | SW | N/A | | SW | WE | | subhydric - hygric SMR | | Oikos unit; includes all shrub wetlands; | SW |
| | Talus | | TA | N/A | | TA | TA | | | | TEM unit; as described in Table 3.1 of TEM standards; sparsely or non-vegetated | TA |

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| BEC unit | Connotative Map Entity Name | Broad ecosystem type | Map Entity # | 1990 site series | Proposed site series Feb 2002 | Oikos KT Map code | Merritt PEM Site Series letter code | Stand attributes | Environmental attributes | Vegetation recognition criteria | comments | Post-processing logic |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ESSFdc2p | Brushy Talus | | BT | N/A | | BT | BT | | mainly on colluvium, medium to rich SNR | | Oikos unit, non-forested, mesic to subhygric seepage areas dominated by alders and forbs | BT |
| | Rock Outcrop | | RO | N/A | | RO | RO | | | | TEM unit; as described in Table 3.1 of TEM standards; sparsely or non-vegetated; also includes areas of ice and permanent snow; and also includes BEU units: AN and AU. | RO |
| ESSFmwp | Dry Closed Forest | | DF | N/A | | DF | DF | | Poorer SNR; subxeric - very xeric SMR | | Oikos unit; dry closed forest occuring on upper slopes, crests and rock outcrops; coarse-medium textured, very thin to thin soils over bedrock; ecologically similar to drier units LJ and DF of ESSFmw | DF |

| BEC unit | Connotative Map Entity Name | Broad ecosystem type | Map Entity # | 1990 site series | Proposed site series Feb 2002 | Oikos KT Map code | Merritt PEM Site Series letter code | Stand attributes | Environmental attributes | Vegetation recognition criteria | comments | Post-processing logic |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ESSFmwp | Dry Open Parkland Forest | | DP | N/A | | DP | DP | | Occurring on upper slopes, crests and rock outcrops; coarse-medium textured, very thin to thin soils over bedrock; ecologically similar to OB unit of ESSFmw; similar to dry WP BEU unit; poorer SNR; subxeric - very xeric SMR | | Oikos complex unit; dry open parkland forest; complex of clumps of trees, on very dry hummocks and rock outcrops, interspersed with SL | DP |
| | Scrub-Lichen | | SL | N/A | | SL | SL | | Occurs on upper slopes, crests and rock outcrops; coarse-medium textured, very thin to thin soils over bedrock; ecologically similar to openings of the OB unit of ESSFmw; poorer SNR; subxeric - very xeric SMR | | Oikos complex unit; includes the S (Scrub) KFR unit described for the Coast Mountains AT in Lloyd et al. (1990), as well as the dry lichen Oikos unit. | SL |

Merritt Predictive Ecosystem Mapping – Map Entities

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| BEC unit | Connotative Map Entity Name | Broad ecosystem type | Map Entity # | 1990 site series | Proposed site series Feb 2002 | Oikos KT Map code | Merritt PEM Site Series letter code | Stand attributes | Environmental attributes | Vegetation recognition criteria | comments | Post-processing logic |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ESSFmwp | Mesic Closed Forest | | MF | N/A | | MF | MF | | Occurring on gentle-steep mid slopes and level; moderately deep - deep, medium textured soil; ecologically similar to mesic units FR and FH of ESSFmw; medium-poor SNR; submesic - mesic SMR | | Oikos unit; mesic closed forest SMR | MF |
| | Mesic Open Parkland Forest | | MP | N/A | | MP | MP | | Occurring on gentle-steep mid slopes and level hummocky terrain; moderately deep - deep, medium textured soil; similar to mesic WP BEU unit; medium-poor SNR; submesic - mesic SMR | | Oikos complex unit; mesic open parkland forest; complex of clumps of trees, on drier hummocks, interspersed with HG in depressions; | MP |

| BEC unit | Connotative Map Entity Name | Broad ecosystem type | Map Entity # | 1990 site series | Proposed site series Feb 2002 | Oikos KT Map code | Merritt PEM Site Series letter code | Stand attributes | Environmental attributes | Vegetation recognition criteria | comments | Post-processing logic |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ESSFmwp | Heath-Grass | | HG | N/A | | HG | HG | | medium SNR; mesic SMR | | Oikos complex unit; includes the H (heath) KFR unit for the Coast Mountains AT as described in Lloyd et al. (1990) and less amounts of Oikos grass unit; similar to BEU units: AH and SM (Moutain Heather dominated); | HG |
| | Moist (subhygric Closed Forest | | SF | N/A | | SF | SF | | Occurring on gentle-steep lower receiving slopes and toes; deep, medium textured soil; ecologically similar to subhygric units FA and FV of ESSFmw; rich-medium SNR; subhygric-hygric SMR | | Oikos unit; moist closed forest. | SF |
| | Moist (subhygric) Closed Forest | | SP | N/A | | SP | SP | | Deep, medium textured soil; rich-medium SNR; subhygric-hygric SMR | | Oikos complex unit; moist open parkland forest; complex of clumps of trees, interspersed with HS in depressions; occuring on gentle-steep lower receiving slopes and toes | SP |

| BEC unit | Connotative Map Entity Name | Broad ecosystem type | Map Entity # | 1990 site series | Proposed site series Feb 2002 | Oikos KT Map code | Merritt PEM Site Series letter code | Stand attributes | Environmental attributes | Vegetation recognition criteria | comments | Post-processing logic |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ESSFmwp | Brushy Moist Herb Meadow-Sedge | | HS | N/A | | HS | HS | | Occurs on gentle-steep lower receiving slopes, toes, mid-lower avalanche tracks and in depressions; deep, medium textured soil; rich-medium SNR; hygric-subhygric SMR | | Oikos complex unit; includes the Oikos moist herb and sedge meadow unit (similar to the HM2 KFR unit for the Columbia Mountain AT) and also includes the ecologically similar Oikos unit DH from ESSFmw. Similar to BEU units: AM (Forb dominated) and SM (Forb dominated | HS |
| | Shrub Wetlands | | SW | N/A | | SW | WE | | subhydric - hygric SMR | | Oikos unit; includes all shrub wetlands | SW |
| | Herb Wetlands | | HW | N/A | | HW | GW | | subhydric - hygric SMR | | Oikos unit; includes the SM (Sedge meadow) KFR unit for the Coast Mountains AT as described in Lloyd et al. (1990); as well as sedge fens, wet meadows and all other herb wetlands; also includes BEU units: SM (sedge dominated) and AM (sedge dominated) | HW |
| | Talus | | TA | N/A | | TA | TA | | | | TEM unit; as described in Table 3.1 of TEM standards; sparsely or non-vegetated | TA |

Merritt Predictive Ecosystem Mapping – Map Entities

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| BEC unit | Connotative Map Entity Name | Broad ecosystem type | Map Entity # | 1990 site series | Proposed site series Feb 2002 | Oikos KT Map code | Merritt PEM Site Series letter code | Stand attributes | Environmental attributes | Vegetation recognition criteria | comments | Post-processing logic |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ESSFmwp | Brushy Talus | | BT | N/A | | BT | BT | | Mainly on colluvium, medium to rich SNR | | Oikos unit, non-forested, mesic to subhygric seepage areas dominated by alders and forbs | BT |
| | Rock Outcrop | | RO | N/A | | RO | RO | | | | TEM unit; as described in Table 3.1 of TEM standards; sparsely or non-vegetated; also includes areas of ice and permanent snow; and also includes BEU units: AN and AU. | RO |
| | Dry Closed Forest | | DF | N/A | | DF | DF | | occuring on upper slopes, crests and rock outcrops; coarse-medium textured, very thin to thin soils over bedrock; ecologically similar to drier units LJ and LF of ESSFdc2 and LJ, PJ and FC of ESSFxc; poorer SNR; subxeric - very xeric SMR | | Oikos unit; dry closed forest | DF |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ESSFxcp | Dry Open Parkland Forest | | DP | N/A | | DP | DP | | occuring on upper slopes, crests and rock outcrops; coarse-medium textured, very thin to thin soils over bedrock; ecologically similar to OB unit of ESSFdc2 and ESSFxc; similar to the dry atypical FP BEU unit; poorer SNR; subxeric - very xeric SMR | | Oikos complex unit; dry open parkland forest; complex of clumps of trees, on very dry hummocks and rock outcrops, interspersed with SD | DP |

| BEC unit | Connotative Map Entity Name | Broad ecosystem type | Map Entity # | 1990 site series | Proposed site series Feb 2002 | Oikos KT Map code | Merritt PEM Site Series letter code | Stand attributes | Environmental attributes | Vegetation recognition criteria | comments | Post-processing logic |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ESSFxcp | Scrub-Dry Herb Meadow | | SD | N/A | | SD | SD | | Occurs on upper slopes, crests and rock outcrops; coarse-medium textured, very thin to thin soils over bedrock; ecologically similar to openings of the OB unit of ESSFdc2 and ESSFxc; poorer SNR; subxeric - very xeric SMR | | Oikos complex unit; includes both the S (Scrub) and HM1 (dry herb meadow) KFR units described for the Thompson Plateau AT in Lloyd et al. (1990), as well as the dry lichen Oikos unit | SD |
| | Mesic Closed Forest | | MF | N/A | | MF | MF | | occuring on gentle-steep mid slopes and level; moderately deep - deep, medium textured soil; ecologically similar to mesic units FR and FV of ESSFdc2 and FG and FR of ESSFxc; medium-poor SNR; submesic - mesic SMR | | Oikos unit; mesic closed forest | MF |

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| BEC unit | Connotative Map Entity Name | Broad ecosystem type | Map Entity # | 1990 site series | Proposed site series Feb 2002 | Oikos KT Map code | Merritt PEM Site Series letter code | Stand attributes | Environmental attributes | Vegetation recognition criteria | comments | Post-processing logic |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ESSFxcp | Mesic Open Parkland Forest | | MP | N/A | | MP | MP | | occuring on gentle-steep mid slopes and level hummocky terrain; moderately deep - deep, medium textured soil; similar to the typical FP BEU unit; medium-poor SNR; submesic - mesic SMR | | Oikos complex unit; mesic open parkland forest; complex of clumps of trees, on drier hummocks, interspersed with GS in depressions; | MP |
| | Grass-Sedge Mesic Meadow | | GS | N/A | | GS | GS | | medium SNR; mesic SMR | | KFR unit for the Thompson Plateau AT as described in Lloyd et al. (1990); similar to SG BEU unit | GS |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ESSFxcp | Moist (subhygric) Closed Forest | | SF | N/A | | SF | SF | | occuring on gentle-steep lower receiving slopes and toes; deep, medium textured soil; ecologically similar to subhygric-hygric units FO and FT of ESSFdc2 and FF and FH of ESSFxc; rich-medium SNR; subhygric-hygric SMR | | Oikos unit; moist closed forest | SF |
| | Moist (subhygric) Closed Forest | | SP | N/A | | SP | SP | | occuring on gentle-steep lower receiving slopes and toes; deep, medium textured soil; rich-medium SNR; subhygric-hygric SMR | | Oikos complex unit; moist open parkland forest; complex of clumps of trees, interspersed with HH in depressions | SP |

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| BEC unit | Connotative Map Entity Name | Broad ecosystem type | Map Entity # | 1990 site series | Proposed site series Feb 2002 | Oikos KT Map code | Merritt PEM Site Series letter code | Stand attributes | Environmental attributes | Vegetation recognition criteria | comments | Post-processing logic |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ESSFxcp | Heath-Moist Herb Meadow | | HH | N/A | | HH | HH | | Occurs on gentle-steep lower receiving slopes, toes, mid-lower avalanche tracks and in depressions; deep, medium textured soil; rich-medium SNR; hygric-subhygric SMR | | Oikos complex unit; includes the H (Heath) KFR unit described for the Thompson Plateau AT in Lloyd et al. (1990), Oikos moist herb and sedge meadow unit (similar to the HM2 KFR unit for the Columbia Mountain AT) and also includes the ecologically similar Oikos unit DH from ESSFdc2 and ESSFxc. Similar to BEU units: AH, SM (Forb dominated and mountain heather dominated) and AM (Forb dominated). | HH |
| | Herb Wetlands | | HW | N/A | | HW | GW | | subhydric - hygric SMR | | Oikos unit; includes sedge fens, wet sedge meadows and all other herb wetlands; includes BEU units: SM (sedge dominated) and AM (sedge dominated); | HW |
| | Shrub Wetlands | | SW | N/A | | SW | WE | | subhydric - hygric SMR | | Oikos unit; includes all shrub wetlands; | SW |
| | Talus | | TA | N/A | | TA | TA | | | | TEM unit; as described in Table 3.1 of TEM standards; sparsely or non-vegetated | TA |

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| BEC unit | Connotative Map Entity Name | Broad ecosystem type | Map Entity # | 1990 site series | Proposed site series Feb 2002 | Oikos KT Map code | Merritt PEM Site Series letter code | Stand attributes | Environmental attributes | Vegetation recognition criteria | comments | Post-processing logic |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ESSFxcp | Brushy Talus | | BT | N/A | | BT | BT | | mainly on colluvium, medium to rich SNR | | Oikos unit, non-forested, mesic to subhygric seepage areas dominated by alders and forbs | BT |
| | Rock Outcrop | | RO | N/A | | RO | RO | | | | TEM unit; as described in Table 3.1 of TEM standards; sparsely or non-vegetated; also includes areas of ice and permanent snow; and also includes BEU units: AN and AU. | RO |
| MHmm2 | Hm Ba - Mountain heather | | MM | N/A | | MM | MM | | occurs on crests, rock outcrops and upper slopes, with shallow soils, usually on south aspects | | As described in Green et al (1994), | MM |
| | Hm Ba - Blueberry | | MB | N/A | | MB | MB | | occurs on steep slopes | | As described in Green et al (1994) | MB |
| | Ba Hm - Oak fern | | MO | N/A | | MO | MO | | occurs on steep slopes, with base rich parent materials | | As described in Green et al (1994) | MO |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MHmm2 | Hm Ba - Bramble | | AB | N/A | | AB | AB | | occurs on gentle mid-lower receiving slopes | | As described in Green et al (1994) | AB |
| | Ba Hm - Twistedstalk | | MT | N/A | | MT | MT | | occurs on steep-gentle mid-lower receiving slopes and gullies | | As described in Green et al (1994) | MT |
| | Hm Yc - Deer cabbage | | MD | N/A | | MD | MD | | occurs on gentle lower-toe receiving seepage slopes | | As described in Green et al (1994) | MD |
| | YcHm - Hellebore | | YH | N/A | | YH | YH | | occurs on steep-gentle, lower receiving seepage slopes and gullies | | As described in Green et al (1994) | YH |
| | Hm Yc - Sphagnum | | YS | N/A | | US | US | | treed bog, occurs on level ground and in depressions | | As described in Green et al (1994) | US |
| | Yc Hm - Skunk cabbage | | YC | N/A | | YC | YC | | treed swamp, poorly drained, occurs on level ground and in depressions | | As described in Green et al (1994) | YC |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MHmm2 | Herb Wetlands | | SW | N/A | | SW | GW | | all non-forested sedge fens and herb wetlands; includes BEU units: BG, FE, ME, MR | | New Oikos Unit | SW |
| | Shrub Wetlands | | HW | N/A | | HW | WE | | all non-forested shrub wetlands; includes BEU units: SC, SH, SW | | New Oikos Unit | HW |
| | Ds - Herb - grass | | DH | N/A | | DH | DH | | Alder thickets interspersed with herb and grass meadows, includes avalanche tracks, with deep soils, richer SNR, submesic-subhygric SMR, transitional to alpine parkland; ecologically similar to HS Oikos unit for ESSFmwp; and similar to SM (Forb dominated) BEU unit. | | New Oikos Unit | DH |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MHmm2 | Open Balsam Forest | | OB | N/A | | OB | FP | | open scrubby balsam forest, on rock, with thin soils, poor SNR, mesic - subxeric SMR, transitional to alpine parkland; ecologically similar to DP Oikos unit for ESSFmwp and to dry atypical FP BEU unit. | | New Oikos Unit | OB |
| | Alpine Heath | | AH | N/A | | AH | NH | | non-forested heath, dominated by grasses and forbs, on rock, and thin colluvial and morainal veneers, with thin soils; poor-medium SNR, mesic-xeric SMR, transitional to alpine parkland; includes the similar HG Oikos unit for ESSFmwp and BEU unit SG and AH. | | New Oikos Unit | AH |

| BEC unit | Connotative Map Entity Name | Broad ecosystem type | Map Entity # | 1990 site series | Proposed site series Feb 2002 | Oikos KT Map code | Merritt PEM Site Series letter code | Stand attributes | Environmental attributes | Vegetation recognition criteria | comments | Post-processing logic |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MHmm2 | Brushy Talus | | BT | N/A | | BT | BT | | non-forested, mesic to subhygric seepage areas dominated by alders and forbs; mainly on colluvium, medium to rich SNR | | New Oikos Unit | BT |
| MHmm2p | Driy Closed Forest | | DF | N/A | | DF | DF | | occuring on upper slopes, crests and rock outcrops; coarse-medium textured, very thin to thin soils over bedrock; ecologically similar to drier unit MM of MHmm2; poorer SNR; subxeric - very xeric SMR | | Oikos unit; dry closed fores | DF |
| | Dry Open Parkland Forest | | DP | N/A | | DP | DP | | occuring on upper slopes, crests and rock outcrops; coarse-medium textured, very thin to thin soils over bedrock; ecolo | | Oikos complex unit; dry open parkland forest; complex of clumps of trees, on very dry hummocks and rock outcrops, interspersed with SL | DP |

Merritt Predictive Ecosystem Mapping – Map Entities

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| BEC unit | Connotative Map Entity Name | Broad ecosystem type | Map Entity # | 1990 site series | Proposed site series Feb 2002 | Oikos KT Map code | Merritt PEM Site Series letter code | Stand attributes | Environmental attributes | Vegetation recognition criteria | comments | Post-processing logic |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MHmm2p | Scrub-Lichen | | SL | N/A | | SL | SL | | Occurs on upper slopes, crests and rock outcrops; coarse-medium textured, very thin to thin soils over | | Oikos complex unit; includes the S (Scrub) KFR unit described for the Coast Mountains AT in Lloyd et al. (1990), as well as the dry lichen Oikos unit. | SL |
| | Mesic Closed Forest | | MF | N/A | | MF | MF | | occuring on gentle-steep mid slopes and level; moderately deep - deep, medium textured soil; ecologically similar to mesic unit MB of MHmm2; medium-poor SNR; submesic - mesic SMR | | Oikos unit; mesic closed forest | MF |
| | Mesic Open Parkland Forest | | MP | N/A | | MP | MP | | occuring on gentle-steep mid slopes and level hummocky terrain; moderately deep - deep, medium textured soil | | Oikos complex unit; mesic open parkland forest; complex of clumps of trees, on drier hummocks, interspersed with HG in depressions; | MP |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MHmm2p | Heath-Grass | | HG | N/A | | HG | HG | | medium SNR; mesic SMR | | Oikos complex unit; includes the H (heath) KFR unit for the Coast Mountains AT as described in Lloyd et al. (1990) and less amounts of Oikos grass unit; similar to BEU units: AH and SM (Moutain Heather dominated); | HG |
| | Moist (subhygric Closed Forest | | SF | N/A | | SF | SF | | occuring on gentle-steep lower receiving slopes and toes; deep, medium textured soil; ecologically similar to subhygric units AB and MT of MHmm2; rich-medium SNR; subhygric-hygric SMR | | Oikos unit; moist closed fores | SF |

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| BEC unit | Connotative Map Entity Name | Broad ecosystem type | Map Entity # | 1990 site series | Proposed site series Feb 2002 | Oikos KT Map code | Merritt PEM Site Series letter code | Stand attributes | Environmental attributes | Vegetation recognition criteria | comments | Post-processing logic |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MHmm2p | Moist (subhygric) Open Parkland Forest | | SP | N/A | | SP | SP | | occuring on gentle-steep lower receiving slopes and toes; deep, medium textured soil; rich-medium SNR; subhygric-hygric SMR | | Oikos complex unit; moist open parkland forest; complex of clumps of trees, interspersed with HS in depressions | SP |
| | Moist Herb Meadow-Sedge | | HS | N/A | | HS | HS | | | | Oikos complex unit; includes the Oikos moist herb and sedge meadow unit (similar to the HM2 KFR unit for the Columbia Mountain AT) and also includes the ecologically similar Oikos unit DH from MHmm2. Similar to BEU units: AM (Forb dominated) and SM (Forb dominated) | HS |
| | Shrub Wetlands | | SW | N/A | | SW | WE | | subhydric - hygric SMR | | ikos unit; includes all shrub wetlands | SW |

| BEC unit | Connotative Map Entity Name | Broad ecosystem type | Map Entity # | 1990 site series | Proposed site series Feb 2002 | Oikos KT Map code | Merritt PEM Site Series letter code | Stand attributes | Environmental attributes | Vegetation recognition criteria | comments | Post-processing logic |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MHmm2p | Herb wetlands | | HW | N/A | | HW | GW | | | | Oikos unit; includes the SM (Sedge meadow) KFR unit for the Coast Mountains AT as described in Lloyd et al. (1990); as well as sedge fens, wet meadows and all other herb wetlands; also includes BEU units: SM (sedge dominated) and AM (sedge dominated); sub | HW |
| | Talus | | TA | N/A | | TA | TA | | | | TEM unit; as described in Table 3.1 of TEM standards; sparsely or non-vegetated | TA |
| | Brushy Talus | | BT | N/A | | BT | BT | | mainly on colluvium, medium to rich SNR | | Oikos unit, non-forested, mesic to subhygric seepage areas dominated by alders and forbs | BT |
| | Rock Outcrop | | RO | N/A | | RO | RO | | | | TEM unit; as described in Table 3.1 of TEM standards; sparsely or non-vegetated; also includes areas of ice and permanent snow; and also includes BEU units: AN and AU. | RO |
| PPxh1 | Py - Bluebunch wheatgrass - Idaho fescue | | PT | N/A | | PT | PT | | | | As described in Lloyd et al (1990) | PT |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PPxh1 | Py - Bluebunch wheatgrass - Idaho fescue | | SW | N/A | | SW | SW | | | | As described in Lloyd et al (1990) | SW |
| | Py - Bluebunch wheatgrass - Idaho fescue | | PC | N/A | | PC | PC | | | | As described in Lloyd et al (1990) | PC |
| | Py - Bluebunch wheatgrass - Idaho fescue | | PW | N/A | | PW | PW | | | | As described in Lloyd et al (1990) | PW |
| | Py - Bluebunch wheatgrass - Rough fescue | | PF | N/A | | PF | PF | | | | As described in Lloyd et al (1990) | PF |
| | FdPy - Snowberry - Pinegrass | | SP | N/A | | SP | SP | | | | As described in Lloyd et al (1990) | SP |
| | FdPy - Snowberry - Spirea | | DS | N/A | | DS | DS | | | | As described in Lloyd et al (1990) | DS |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PPxh1 | Fd - Water birch - Douglas maple | | DM | N/A | | DM | DM | | | | As described in Lloyd et al (1990) | DM |
| | Herb Wetlands | | HW | N/A | | HW | GW | | | | New Oikos unit, all non-forested sedge fens and herb wetlands; includes BEU units: BG, FE, ME, MR | HW |
| | Shrub Wetlands | | SW | N/A | | SW | WE | | | | New Oikos unit, all non-forested shrub wetlands; includes BEU units: SC, SH, SW | SW = BW in econgen as there are two SW's. But no BW's in output of PEM proposed to be YA |
| | Brushy Talus | | BT | N/A | | BT | BT | | mainly on colluvium, medium to rich SNR | | New Oikos unit, non-forested, mesic to subhygric seepage areas dominated by alders and forbs | BT |