United States Department of Agriculture

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Natural Resource Manager (NRM)

# FSVeg Common Stand Exam User Guide Region 6 Appendices

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## Appendix A: Administrative and Proclaimed Forest Codes

Table 1: Region 6 codes

| **Admin Number** | **Administrative Forest Name** | **Proclaimed Number** | **Proclaimed Forest Name** |
| --- | --- | --- | --- |
| 01 | Deschutes | 01 | Deschutes |
| 02 | Fremont – Winema | 02 | Fremont |
| 02 | Fremont – Winema | 20 | Winema |
| 03 | Gifford Pinchot | 03 | Gifford Pinchot |
| 03 | Gifford Pinchot | 14 | Snoqualmie (part) |
| 04 | Malheur | 04 | Malheur |
| 05 | Mt. Baker – Snoqualmie | 05 | Mt. Baker |
| 05 | Mt. Baker – Snoqualmie | 13 | Snoqualmie (part) |
| 06 | Mt. Hood | 06 | Mt. Hood |
| 07 | Ochoco | 07 | Ochoco |
| 09 | Olympic | 09 | Olympic |
| 10 | Rogue River – Siskiyou | 10 | Rogue River |
| 10 | Rogue River – Siskiyou | 11 | Siskiyou |
| 12 | Siuslaw | 12 | Siuslaw |
| 14 | Umatilla | 14 | Umatilla |
| 15 | Umpqua | 15 | Umpqua |
| 16 | Wallowa – Whitman | 16 | Wallowa |
| 16 | Wallowa – Whitman | 19 | Whitman |
| 17 | Okanogan – Wenatchee | 08 | Okanogan |
| 17 | Okanogan – Wenatchee | 13 | Snoqualmie (part) |
| 17 | Okanogan – Wenatchee | 17 | Wenatchee |
| 18 | Willamette | 18 | Willamette |
| 21 | Colville | 13 | Kaniksu (part) |
| 21 | Colville | 21 | Colville |
| 22 | Columbia River Gorge National Scenic Area | 22 | Columbia River Gorge National Scenic Area |

## Appendix B: District Codes

Table 2: Region 6 codes

| **Forest** | **Code** | **District** |
| --- | --- | --- |
| Colville | 3 | Newport |
| Colville | 4 | Republic |
| Colville | 5 | Sullivan Lake |
| Colville | 12 | Three Rivers |
| Deschutes | 1 | Bend-Fort Rock |
| Deschutes | 2 | Cresent |
| Deschutes | 5 | Sisters |
| Fremont-Winema | 1 | Bly |
| Fremont-Winema | 2 | Lakeview |
| Fremont-Winema | 3 | Paisley |
| Fremont-Winema | 4 | Silver Lake |
| Fremont-Winema | 11 | Chemult |
| Fremont-Winema | 12 | Chiloquin |
| Fremont-Winema | 13 | Klamath |
| Gifford Pinchot | 1 | Mount St. Helens NVM |
| Gifford Pinchot | 3 | Mt. Adams |
| Gifford Pinchot | 5 | Cowlitz Valley |
| Malheur | 1 | Blue Mountain |
| Malheur | 2 | Emigrant Creek |
| Malheur | 4 | Prairie City |
| Mt. Baker – Snoqualmie | 1 | Mt. Baker |
| Mt. Baker – Snoqualmie | 2 | Darrington |
| Mt. Baker – Snoqualmie | 5 | Snoqualmie |
| Mt. Baker – Snoqualmie | 6 | Skykomish |
| Mt. Hood | 1 | Barlow |
| Mt. Hood | 5 | Clackamas |
| Mt. Hood | 6 | Hood River |
| Mt. Hood | 9 | Zig Zag |
| Nez Perce (R1, F17) | 1 | Slate Creek |
| Nez Perce (R1, F17) | 3 | Salmon River |
| Ochoco | 1 | Lookout Mountain |
| Ochoco | 2 | Paulina |
| Okanogan – Wenatchee | 2 | Chelan |
| Okanogan – Wenatchee | 3 | Cle Elum |
| Okanogan – Wenatchee | 4 | Methow Valley |
| Okanogan – Wenatchee | 5 | Entiat |
| Okanogan – Wenatchee | 7 | Wenatchee River |
| Okanogan – Wenatchee | 8 | Naches |
| Okanogan – Wenatchee | 9 | Tonasket |
| Olympic | 1 | Hood Canal |
| Olympic | 5 | Pacific |
| Payette (R4, F12) | 1 | Council |
| Payette (R4, F12) | 2 | Weiser |
| Payette (R4, F12) | 3 | New Meadows |
| Rogue River | 20 | Siskiyou Mountains |
| Siskiyou | 22 | Wild Rivers |
| Siskiyou | 24 | High Cascades |
| Siskiyou | 26 | Gold Beach |
| Siskiyou | 28 | Powers |
| Siuslaw | 1 | Hebo |
| Siuslaw | 2 | C. Coast/ODNRA |
| Umatilla | 2 | Heppner |
| Umatilla | 4 | Pomeroy |
| Umatilla | 5 | N. Fork John Day |
| Umatilla | 6 | Walla Walla |
| Umpqua | 1 | Cottage Grove |
| Umpqua | 2 | Tiller |
| Umpqua | 3 | Diamond Lake |
| Umpqua | 5 | Dorena |
| Umpqua | 6 | North Umpqua |
| Wallowa-Whitman | 1 | Baker |
| Wallowa-Whitman | 2 | Wallowa Valley |
| Wallowa-Whitman | 4 | Hells Canyon NRA |
| Wallowa-Whitman | 5 | Eagle Gap |
| Wallowa-Whitman | 6 | La Grande |
| Wallowa-Whitman | 7 | Pine |
| Wallowa-Whitman | 9 | Unity |
| Willamette | 1 | McKenzie River |
| Willamette | 3 | Sweet Home |
| Willamette | 4 | Detroit |
| Willamette | 10 | Middle Fork |

## Appendix C: State Codes

Table 3: Region 6 codes

| **Code** | **State** |
| --- | --- |
| CA | California |
| ID | Idaho |
| OR | Oregon |
| WA | Washington |

## Appendix D: County Codes

Table 4: California County codes

| **Code** | **County** |
| --- | --- |
| 15 | Del Norte |
| 93 | Siskiyou |

Table 5: Idaho County codes

| **Code** | **County** |
| --- | --- |
| 3 | Adams |
| 49 | Idaho |
| 69 | Nez Perce |
| 85 | Valley |

Table 6: Oregon county codes

| **Code** | **County** |
| --- | --- |
| 1 | Baker |
| 3 | Benton |
| 5 | Clackamas |
| 7 | Clatsop |
| 9 | Columbia |
| 11 | Coos |
| 13 | Crook |
| 15 | Curry |
| 17 | Deschutes |
| 19 | Douglas |
| 21 | Gilliam |
| 23 | Grant |
| 25 | Harney |
| 27 | Hood River |
| 29 | Jackson |
| 31 | Jefferson |
| 33 | Josephine |
| 35 | Klamath |
| 37 | Lakee |
| 39 | Lane |
| 41 | Lincoln |
| 43 | Linn |
| 45 | Malheur |
| 47 | Marion |
| 49 | Morrow |
| 51 | Multnomah |
| 53 | Polk |
| 55 | Sherman |
| 57 | Tillamook |
| 59 | Umatilla |
| 61 | Union |
| 63 | Wallowa |
| 65 | Wasco |
| 67 | Washington |
| 69 | Wheeler |
| 71 | Yamhill |

Table 7: Washington county codes

| **Code** | **County** |
| --- | --- |
| 1 | Adams |
| 3 | Asotin |
| 5 | Benton |
| 7 | Chelan |
| 9 | Clallam |
| 11 | Clark |
| 13 | Columbia |
| 15 | Cowlitz |
| 17 | Douglas |
| 19 | Ferry |
| 21 | Franklin |
| 23 | Garfield |
| 25 | Grant |
| 27 | Grays Harbor |
| 29 | Island |
| 31 | Jefferson |
| 33 | King |
| 35 | Kitsap |
| 37 | Kittitas |
| 39 | Klickitat |
| 41 | Lewis |
| 43 | Lincoln |
| 45 | Mason |
| 47 | Okanogan |
| 49 | Pacific |
| 51 | Pend Oreille |
| 53 | Pierce |
| 55 | San Juan |
| 57 | Skagit |
| 59 | Skamania |
| 61 | Snohomish |
| 63 | Spokane |
| 65 | Stevens |
| 67 | Thurston |
| 69 | Wahkiakum |
| 71 | Walla Walla |
| 73 | Whatcom |
| 75 | Whitman |
| 77 | Yakima |

## Appendix E: Existing Vegetation References & Codes

Table 8: Existing Vegetation References

| **Code** | **Name** | **Author** |
| --- | --- | --- |
| PNW | PNW-GTR-418. Pacific Northwest Ecoclass Codes for Seral and Potential Natural Communities. April 1998. A subset of PVRef 639, High-level codes to classify existing vegetation. | USDA Forest Service |
| R6F02 | Region 6 Forest 2 (Fremont-Winema) Existing Vegetation Codes | USDA Forest Service, Reg. 6 |

Table 9: Existing PNW Vegetation codes

| **Code** | **Description** |
| --- | --- |
| AB | Buildings, structures, roads, campgrounds |
| AC | Cultivated lands |
| AG | Grasslands: permanent pasture that is maintained in forest, shrub, or desert climates |
| AO | Orchards: maintained exotic forest stands |
| AR | Recreation areas; parks, golf courses, or play areas |
| AX | Administrative or agricultural (no descriptor specified) |
| CA | Alpine open, forest park |
| CC | Western red cedar |
| CD | Douglas-fir |
| CE | Subapline fir, Englemann spruce |
| CF | Silver or noble fir |
| CH | Hemlock, western |
| CJ | Juniper, western |
| CL | Lodgepole pine |
| CM | Mountain hemlock |
| CP | Ponderosa, Jeffery pine |
| CR | Red fir |
| CS | Sitka spruce |
| CW | Grand or white fir |
| CX | Coniferous forest (no descriptor specified) |
| FM | Moist (mesic) forbland |
| FS | Subapline or alpine forbland |
| FW | Wet forbland |
| FX | Forbland (no descriptor specified) |
| GA | Annual grasslands |
| GB | Bunchgrasses |
| GM | Mesic (forest zone) grasslands |
| GR | Rhizomatous grass-sedge |
| GS | Subalpine or alpine grass or sedge lands |
| GX | PNC grassland (no descriptor specified) |
| HA | Alder |
| HB | Bigleaf maple |
| HC | Cottonwood – ash bottoms |
| HL | Canyon live oak tree size |
| HO | Oak, Oregon or black |
| HQ | Quaking aspen |
| HT | Tanoak tree size |
| HX | Hardwood woodlands or forest (no descriptor specified) |
| MD | Dry meadow |
| MM | Moist meadow |
| MS | Subalpine or alpine wet meadow |
| MT | Tule, standing water |
| MW | Wet meadow |
| MX | Meadow; grass/sedge (no descriptor specified) |
| NC | Cinders, lava flow, mud flow, glacial wash; continuous disturbance or low site potential precludes vegetation reaching over 10 percent crown cover |
| NF | Flood plain periodically denuded of vegetation with no foreseeable means of establishing plants |
| NI | Ice fields, glaciers, perennial snow |
| NL | Landform failure, natural slumps, avalanches, avalanche trails with little practical means of establishing vegetative cover |
| NM | Mining tailings, dredging; human-caused disturbances, which has little current vegetation potential |
| NR | Rocky lands with too little soil (or no soil) for good vegetative cover |
| NS | Sand with minimal vegetative cover; shoreline or interior dune |
| NT | Talus with minimal vegetative potential |
| NX | Non-vegetated land; less than 10 percent crown cover potential (no descriptor specified) |
| SC | Chaparral |
| SD | Dry shrubland (sagebrush) |
| SM | Mesic (forest zone) shrublands |
| SS | Subapline to alpine shrublands |
| SW | Wet shrublands |
| SX | PNC shrubland (no descriptor specified) |
| WL | Lakes, ponds, impoundments; perennial or intermittent |
| WR | Running water bodies, streams, rivers, creeks, ditches; perennial or intermittent |
| WX | Water-covered areas (no descriptor specified) |

Table 10: Existing Region 6 Forest 2 (Fremont-Winema) Vegetation Codes

| **EV Code** | **Common Name** |
| --- | --- |
| 1 | Silver fir |
| 2 | White fir |
| 3 | Grand fir |
| 4 | Subalpine fir |
| 5 | Noble fir |
| 6 | Red fir |
| 7 | Bigleaf maple |
| 8 | Red alder |
| 9 | Pacific madrone |
| 10 | Incense cedar |
| 11 | True mountain mahogany |
| 12 | Chinquapin |
| 13 | Ash |
| 14 | Western juniper |
| 15 | Western larch |
| 16 | Whitebark pine |
| 17 | Lodgepole pine |
| 18 | Englemann spruce |
| 19 | Western white pine |
| 20 | Ponderosa pine |
| 21 | Quaking aspen |
| 22 | Interior Douglas-fir (east of CA) |
| 23 | Oregon white bark |
| 24 | Black oak |
| 25 | Early seral |
| 26 | Willow |
| 27 | Western red cedar |
| 28 | Western hemlock |
| 29 | Mountain hemlock |
| 30 | Ponderosa pine mix |
| 31 | Ponderosa – lodgepole pine mix |
| 32 | Ponderosa pine – Douglas-fir |
| 33 | Ponderosa pine – western juniper – Douglas-fir |
| 34 | Western juniper – ponderosa pine |
| 35 | Douglas-fir/Pacific yew |
| 36 | Mixed conifer dry |
| 37 | Mixed conifer mesic |
| 38 | Mixed conifer moist |
| 39 | Upper montane mixed conifer |
| 40 | Upper montane moist mixed conifer |
| 41 | Whitebark pine mix |
| 42 | Lodgepole pine mix |
| 43 | Lodgepole pine – Englemann spruce |
| 44 | Mountain hemlock mix |
| 45 | Englemann spruce – subalpine fir |
| 46 | Mixed conifer – deciduous forest dry |
| 47 | Mixed conifer – deciduous forest moist |
| 48 | Western juniper – deciduous mix |
| 49 | Mixed deciduous forest dry |
| 50 | Mixed deciduous forest moist |
| 51 | Port Orchard cedar |
| 52 | Tanoak |
| 53 | Knobcone pine |
| 54 | Jeffrey pine |
| 55 | Sugar pine |
| 56 | Sitka spruce |
| 57 | Bitter cherry |
| 58 | Canyon live oak |
| 59 | Redwood |
| 60 | Knobcone pine mix |
| 61 | Jeffrey pine mix |
| 255 | Non-forested |

## Appendix F: Potential Vegetation references

Table 11: Region 6 references

| **Code** | **Name** | |
| --- | --- | --- |
| 406 | **Riparian Community Type Classification of Eastern Idaho-Western Wyoming. USDA/FS Report R4-ECOL-85-01.** | A.P. Youngblood, W.G. Padgett, and A.H. Winward (1985) |
| 407 | **Riparian Community Type Classification of Utah and Southeastern Idaho. USDA/FS Report R4-ECOL-89-01** | W.G. Padgett, A.P. Youngblood, and A.H. Winward (1989) |
| 408 | **Sagebrush-Grass Habitat Types of Southern Idaho; Forest, Wildlife, and Range Experiment Station Bulletin No. 35, Univ. of Idaho, Moscow, Idaho.** | M. Hironaka, M.A. Fosberg, and A.H. Winward (1983) |
| 409 | **Steppe Vegetation of Washington; Washington Agriculture Experiment Station Tech. Bulletin No. 62.** | R.F. Daubenmire (1970) |
| 110 | **Forest Habitat Types of Northern Idaho: A Second Approximation. USDA/FS Gen. Tech. Ref. INT-236** | Stephen V. Cooper, Kenneth E. Neiman, Robert Steele, and David W. Roberts (1987) |
| 602 | **Vegetation-Soil Units in the Central Oregon Juniper Zone. Res. Pap. PNW-19. Portland, OR: USDA Forest Service, Pac. N.W. For. & Range Exp. Stat. 60 pp.** | Richard S. Driscoll, 1964 |
| 603 | **A Preliminary Classification of Forest Communities in the Central Portion of the Western Cascades in Oregon. Bull. 4, Coniferous Forest Biome, Ecosystem Analysis Studies, US/Int. Biological Program.** | Dyrness, C.T., Jerry F. Franklin, and W.H. Moir. 1974 |
| 604 | **Plant Communities of the Blue Mountains in Eastern Oregon and Southeastern Washington. R6 Area Guide 3-1. Portland, OR: USDA, Forest Service, Pacific Northwest Region, 62 pp. illus. R6 AG 3-1.** | Hall, F.C. 1973 |
| 605 | **Plant Associations of the Fremont National Forest. R6 Ecol 79-004. Portland, OR: USDA, Forest Service, Pacific Northwest Region, 106 pp.** | W.E. Hopkins, 1979 |
| 606 | **Plant Associations of South Chiloquin and Klamath Ranger Districts, Winema National Forest. R6 Ecol 79-005. USDA, Forest Service, Pacific Northwest Region, 96 pp.** | W.E. Hopkins, 1979 |
| 607 | **Plant Association and Management Guide for the Pacific Silver Fir Zone, Mt. Hood and Willamette National Forests. R6 Ecol 100-1982.** | Hemstrom, M.A., W.H. Emmingham, N.M. Halverson, S.E. Logan, C. Topik, 1982 |
| 608 | **Plant Association and Management Guide for the Pacific Silver Fir Zone, Gifford Pinchot National Forest. R6 Ecol 130-83. Portland, OR: USDA Forest Service, Pacific Northwest Region, 76 pp.** | Brockway, D.G., C. Topik, M.A. Hemstrom, W.H. Emmingham, 1983 |
| 609 | **Forested Plant Associations of the Okanogan National Forest. R6 Ecol 132-1983. Portland, OR: USDA, Forest Service, Pacific Northwest Region. 116 pp.** | Williams, C.K. and T.R. Lillybridge. 1983 |
| 610 | **Plant Associations of the Crooked River National Grassland, Ochoco National Forest. R6 Ecol 133-1983. Portland, OR: USDA Forest Service, Pacific Northwest Region. 98 pp.** | Hopkins, W.E., and B.L. Kovalchik. 1983 |
| 611 | **Plant Associations of the Central Oregon Pumice Zone. R6 Ecol 104-1985. Portland, OR: USDA, Forest Service, Pacific Northwest Region, 138 pp.** | Volland, L.A. 1985 |
| 612 | **Plant Associations and Management Guide, Siuslaw National Forest. R6 Ecol 220-1986. Portland, OR: USDA, Forest Service, Pacific Northwest Region, 121 pp.** | Hemstrom, M.A. and S.E. Logan, 1986 |
| 613 | **Plant Association and Management Guide for the Western Hemlock Zone, Gifford Pinchot National Forest. R6 Ecol 230-1986. Portland, OR: USDA, Forest Service, Pacific Northwest Region, 133 pp.** | Topik, C., N.M. Halverson, and D.G. Brockway, 1986 |
| 614 | **Plant Association and Management Guide for the Western Hemlock Zone, Mt. Hood National Forest. R6 Ecol 230-1986. Portland, OR: USDA, Forest Service, Pacific Northwest Region, 111 pp.** | Halverson, N.M., C. Topik, and R. VanVickle. 1986 |
| 615 | **Plant Associations of the Wallowa-Snake Province, Wallowa-Whitman National Forest. R6 Ecol 255-1986. Portland, OR: USDA, Forest Service, Pacific Northwest Region, 514 pp.** | Johnson, C.G. and S.A. Simon. 1987 |
| 616 | **Plant Association and Management Guide, Willamette National Forest. R6 Ecol 257-1986. Portland, OR: USDA, Forest Service, Pacific Northwest Region, 312 pp.** | Hemstrom, M.A., S.E. Logan, and W. Paviat. 1986 |
| 617 | **Riparian Zone Associations, Deschutes, Ochoco, Fremont, and Winema National Forests. R6 Ecol. Tech. Paper 279-1987. Portland, OR: USDA, Forest Service, Pacific Northwest Region. 171 pp.** | Kovalchik, B.L. 1987 |
| 618 | **Forested Plant Associations of the Olympic National Forest. R6 Ecol. Tech. Paper 001-88. Portland, OR: USDA, Forest Service, Pacific Northwest Region. 502 pp.** | Henderson, J.A., D.H. Peter, R.D. Lesher. 1988 |
| 619 | **Plant Association and Management Guide for the Ponderosa Pine, Douglas Fir, and Grand Fir Zones, Mt. Hood National Forest. R6 Ecol. Tech. Paper 004-88. Portland, OR: USDA, Forest Service, Pacific Northwest Region. 132 pp.** | Topik, C., N.M. Halverson, T. High (1988) |
| 620 | **Plant Association and Management Guide for the Grand Fir Zone – Gifford Pinchot National Forest. R6 Ecol. Tech. Paper 006-88. Portland, OR: USDA, Forest Service, Pacific Northwest Region. 110 pp.** | Topik, C., and N. Halverson. 1988 |
| 621 | **Field Guide to the Forested Plant Associations of the Mt. Baker-Snoqualmie National Forest. R6 Ecol. TP 028-91. Portland, OR: USDA, Forest Service, Pacific Northwest Region. 196 pp.** | Henderson, J.A., R.D. Lesher, D.H. Peter, and D.C. Shaw. 1992 |
| 622 | **Plant Associations of the Blue and Ochoco Mountains. R6 ERW TP 036-92. Portland, OR: USDA Forest Service, Pacific Northwest Region. 207 pp.** | Johnson, Jr., C.G., and R.R. Clausnitzer. 1992 |
| 623 | **Plant Association and Management Guide for the Mountain Hemlock Zone, Gifford Pinchot and Mt. Hood National Forests. R6 MTH-GP TP-08-95. Portland, OR: USDA, Forest Service, Pacific Northwest Region. 101 pp.** | Topic, C., D. Smith, N. Diaz, and T. High. 1995. |
| 624 | **Mid-Montane Wetland Plant Associations of the Malheur, Umatilla, and Wallowa-Whitman National Forests. R6 NR Ecol TP-22-97.** | Crowe, Elisabeth A., Clausnitzer, Roderick R. 1997 |
| 625 | **Riparian Ecological Types, Gifford Pinchot and Mt. Hood National Forests, Columbia River Gorge National Scenic Area. R6 NR-TP-10-96. Portland, OR: USDA, Forest Service, Pacific Northwest Region. 203 pp.** | Diaz, Nancy M.; Mellen, T. Kim. 1996 |
| 626 | **Field Guide for Forested Plant associations of the Wenatchee National Forest. Gen. Tech. Rep. PNW-GTR-359. 335 pp.** | Lillybridge, T.R.; Kovalchik, B.L.; Williams, C.K.; Smith, B.G. 1995 |
| 627 | **Forested Plant Associations for the Colville National Forest. Gen. Tech. Rep. PNW-GTR-306.** | Williams, Clinton K.; Kelley, Brian F.; Williams C.K.; Smith, Bradley G.; Lillybridge, Terry R. 1995 |
| 628 | **Vegetation of Two Drainages in Eagle Cal Wilderness, Wallowa Mountains, Oregon. INT-288. Ogden, UT: USDA, Forest Service, Intermountain Forest and Range Experiment Station. 42 pp.** | Cole, David N. 1982 |
| 631 | **Forest Habitat Types of the Colville Indian Reservation. Publication No. MISC0110. Pullman, WA: Washington State University, Agriculture Research Center. 110 pp.** | Clausnitzer, RR. And B.A. Zamora. 1987 |
| 632 | **Forest Vegetation of Eastern Washington and Northern Idaho. Tech. Bull. 60. Pullman, WA: Washington State University, Agriculture Research Center. 104 pp. illus.** | Daubenmire, R. and Jean B. Daubenmire |
| 634 | **The Oregon Dunes NRA Resource Inventory, Siuslaw National Forest.** | Carlos Pinto, USDA Forest Service. 1972 |
| 635 | **Plant Associations of the Commercial Forest of the Warm Springs Indian Reservation. Warm Springs, OR: Warm Springs Indian Reservation. 142 pp. illust.** | Marsh, R.R., Helliwell and J. Rodgers. 1987 |
| 636 | **The Forest Communities of Mount Rainier National Park. Scientific Monograph Series No. 19. Washington, DC: US Department of the Interior, National Park Service. 194 pp. illust.** | Franklin, J.F., W.H. Moir, M.A. Hemstrom, S.E. Greene, B.A. Smith. 1988 |
| 638 | **Forest Habitat Types of the Spokane Indian Reservation. Res. Bull. XB-0936. Pullman, WA: Washington State University, Agriculture Research Center, 65 pp. illust.** | Zamora, B.A. 1983 |
| 639 | **Pacific Northwest Ecoclass Codes for Seral and Potential Natural Communities. PNW-GTR-418 (contains a combination of the codes in references 602-638)** | Hall, Frederick C. 1998 |
| 640 | **Some combination of references 604, 615, 622, 624** | USDA Forest Service |
| 641 | **Field Guide to the Forested Plant Associations of Southwestern Oregon. R6-NR-ECOL-TO\_17-96. Portland, OR: USDA, Forest Service, Pacific Northwest Region.** | Atzet, Thomas; White, D.E.; McCrimmon, L.A.; Martinez, P.A.; Fong, P.R.; and V.D. Randall. 1996 |
| 642 | **Plant Associations of the Oregon Dunes National Recreation Area. USDA, Forest Service, Pacific Northwest Region. R6-NR-ECOL-TP-09-98.** | Christy, John A., James S. Kaga, and Alfred M. Wiedemann. 1986 |
| 643 | **Major Indicator Shrubs and Herbs on National Forests of Western Oregon and Southwestern Washington. USDA Forest Service, Pacific Northwest Region. R6-TM-229-1986.** | Halverson, Nancy M. 1986 |
| 644 | **Key Species for Plant Associations on the Rogue River, Siskiyou, and Umpaqua National Forests. USDA Forest Service, Pacific Northwest Region. R6-NR-ECOL-TP-026-97.** | Seda, Anitihomas Atzet, and David Wheeler. 1989, updated 1997. |
| 645 | **Major Indicator Shrubs and Herbs in Riparian Zones on National Forests of Eastern Oregon. USDA, Forest Service, Pacific Northwest Region. R6-TM-190-1985.** | Hopkins, William, and Robert Rawlins. 1988 |
| 646 | **Major Indicator Shrubs and Herbs in Riparian Zones on National Forests of Central Oregon. USDA Forest Service, Pacific Northwest Region. R6-ECOL-TP-005-88.** | Kovalchik, Bernard L., William E. Hopkins, and Steven J. Brunsfeld. 1988 |
| 647 | **Field Guide for the Forested Plant Associations of the Westside Cascades of Northwest Oregon. USDA Forest Service, Pacific Northwest Region. R6-NR-ECOL-TP-02. 2002** | McCain, Cindy; Diaz, Nancy |
| 648 | **Field Guide to the Forested Plant Associations of the Northern Oregon Coast Range. USDA Forest Service, Pacific Northwest Region. R6-NR-ECOL-TP-03-02** | McCain, Cindy; Diaz, Nancy |
| 649 | **Some combination of references 614, 619, and 647** | USDA Forest Service |
| 650 | **Some combination of references 642 and 648** | USDA Forest Service |
| 651 | **Some combination of references 608, 613, 620, and 623** | USDA Forest Service |
| 653 | **Forested Plant Associations of the Oregon East Cascades. USDA Forest Service, Pacific Northwest Region. July 2007. R6-NR-ECOL-TP-03-2007.** | Simpson, Michael |

## Appendix G: Potential Vegetation Codes

Table 12: Reference Code 602

| **PV\_CODE** | **COMMON\_NAME** | **SCIENTIFIC\_NAME** |
| --- | --- | --- |
| cjg1 | **Western juniper/bluebunch wheatgrass** | juco/pssp6 |
| cjg111 | **Western juniper/Idaho fescue-bluebunch wheatgrass** | juoc/feid-pssps |
| cjg112 | **Western juniper/bluebunch-wheatgrass-Sandberg bluegrass** | juoc/pssp6-pose |
| cjg2 | **Western juniper/Idaho fescue** | juoc/feid |
| cjs221 | **Western juniper/big sagebrush/bluebunch wheatgrass** | juoc/artr2/pssps |
| cjs222 | **Western juniper/big sagebrush/bluebunch wheatgrass-Douglas’ dustymaiden** | juoc/artr2/pssps-chdo |
| cjs223 | **Western juniper/big sagebrush/bluebunch wheatgrass-woollypod milkvetch** | juco/artr2/pssps-aspul2 |
| cjs224 | **Western juniper/big sagebrush/Idaho fescue** | juco/artr2/feid |
| cjs225 | **Western juniper/big sagebrush/Idaho fescue-lupine** | juco/artr2/feid-lupin |
| cjs236 | **Western juniper/big sagebrush-antelope bitterbrush** | juco/artr2-putr2 |
| cjs3 | **Western juniper/antelope bitterbrush** | juco/putr2 |

Table 13: Reference Code 603

| **PV\_CODE** | **COMMON\_NAME** | **SCIENTIFIC\_NAME** |
| --- | --- | --- |
| cds151 | **Douglas-fir/oceanspray** | psme/hodi |
| cds252 | **Douglas-fir/vine maple/salal** | psme/acci/gash |
| cds253 | **Douglas-fir/vine maple/Cascade barberry** | psme/acci/mane2 |
| cds254 | **Douglas-fir/vine maple/common whipplea** | psme/acci/whmo |
| cds311 | **Douglas-fir-western hemlock/California hazelnut (steep, shallow soil)** | psme-tshe/cococ |
| cfc151 | **Pacific silver fir-mountain hemlock/common beargrass** | abam-tsme/xete |
| cfc152 | **Pacific silver fir/oneleaf foamflower** | abam/titru |
| cff251 | **Noble fir/sweet after death** | abpr/actr |
| cff252 | **Pacific silver fir/sweet after death** | abam/actr |
| cfs251 | **Pacific silver fir/thinleaf huckleberry/common beargrass** | abam/vame/xete |
| cfs253 | **Pacific silver fir/oval-leaf blueberry/bunchberry dogwood** | abam/vaov/coca13 |
| cfs654 | **Pacific silver fir/Pacific rhododendron-oval-leaf blueberry/bunchberry dogwood** | abam/rhma3-vaov/coca13 |
| chc551 | **Western hemlock-Pacific silver fir/Pacific rhododendron-Cascade barberry** | tshe-abam/rhma3-mane2 |
| chc552 | **Western hemlock-Pacific silver fir/Pacific rhododendron/twinflower** | tshe-abam/rhma2/libo3 |
| chc553 | **Western hemlock-Pacific silver fir/twinflower** | tshe-abam/libo3 |
| chf122 | **Western hemlock/western swordfern** | tshe/pomu |
| chf124 | **Western hemlock/western swordfern-redwood-sorrel** | tshe/pomu-oxor |
| chh351 | **Western hemlock/giant chinquapin** | tshe/chchc4 |
| chs222 | **Western hemlock/vine maple/western swordfern** | tshe/acci/pomu |
| chs321 | **Western hemlock/Pacific rhododendron-Cascade barberry** | tshe/rhma3-mane2 |
| chs322 | **Western hemlock/Pacific rhododendron-salal** | tshe/rhma3-gash |
| cmc151 | **Alaska cedar/devilsclub** | chno/opho |

Table 14: Reference Code 604

| **PV\_CODE** | **COMMON\_NAME** | **SCIENTIFIC\_NAME** |
| --- | --- | --- |
| cag111 | **Subalpine fir-whitebark pine/Geyer’s sedge** | abla-pial/cage2 |
| cdg111 | **Ponderosa pine-Douglas-fir/Geyer’s sedge (Blue Mountains)** | pipo-psme/cage2 |
| cds611 | **Ponderosa pine-Douglas-fir/common snowberry-oceanspray** | pipo-psme/syal-hodi |
| cds711 | **Douglas-fir/mallow ninebark (Blue Mtns)** | psme/phma5 |
| ces311 | **Subalpine fir/thinleaf huckleberry (Blue Mtns)** | abla/vame |
| ces411 | **Subalpine fir/grouse whortleberry (Blue Mtns)** | abla/vasc |
| cjg111 | **Western juniper/Idaho fescue-bluebunch wheatgrass** | juoc/feid-pssps |
| cjs111 | **Western juniper/little sagebrush/bluebunch wheatgrass-Idaho fescue** | juoc/arar8/pssps6-feid |
| cjs211 | **Western juniper/big sagebrush/bluebunch-Idaho fescue** | juoc/artr2/pssp6-feid |
| cjs811 | **Western juniper/scabland sagebrush (scabland)** | juoc/arri2 |
| clg211 | **Lodgepole pine/pinegrass-grousse whortleberry** | pico/caru-vasc |
| cls411 | **Lodgepole pine/grouse whortleberry (Blue Mountains)** | pico/vasc |
| cls511 | **Lodgepole pine/thinleaf huckleberry (Blue Mountains)** | pico/vame |
| cpg111 | **Ponderosa pine/bluebunch wheatgrass (Blue Mountains)** | pipo/pssps |
| cpg112 | **Ponderosa pine/Idaho fescue (Blue Mountains)** | pipo/feid |
| cpm111 | **Ponderosa pine/blue wildrye** | pipo/elgl |
| cps221 | **Ponderosa pine/antelope bitterbrush/Ross’ sedge** | pipo/putr2/caro5 |
| cwf311 | **Grand fir/twinflower-forb** | abgr/libo3-2forb |
| cwg111 | **Douglas-fir/pinegrass (residual soil)** | psme-abies/caru |
| cwg112 | **Douglas-fir/piengrass (ash soil)** | psme-abies/caru |
| cws211 | **Grand fir/thinleaf huckleberry** | abgr/vame |
| cws811 | **Grand fir/grouse whortleberry** | abgr/vasc |
| fs5911 | **Poke knotweed** | poph |
| gb4911 | **Bluebunch wheatgrass-Sandberg bluegrass-onespike danthonia (shallow soil, scabland)** | pssps-pose-daun |
| gb4912 | **Bluebunch wheatgrass-Idaho fescue (deep soil, gentle slopes)** | pssps-feid |
| gb4913 | **Bluebunch wheatgrass-Sandberg bluegrass (shallow soil, steep slopes)** | pssps-pose |
| gb4914 | **Bluebunch wheatgrass-Idaho fescue (deep soil, steep slopes)** | pssps-feid |
| gb9111 | **Sandberg bluegrass-onespike danthonia** | pose-daun |
| gbb911 | **Biscuit-scabland complex** | n/a |
| gs1211 | **Idaho fescue (subalpine)** | feid |
| gs3911 | **Geyer’s sedge (subalpine)** | cage2 |
| hqmi | **Quaking aspen/grass (meadow, wetland)** | potr5/2gram |
| md | **Meadow, dry (water table available part of the growing season)** | n/a |
| mm | **Meadow, moist (water table available all growing season)** | n/a |
| mw | **Meadow, wet (surface moist or wet all growing season)** | n/a |
| sd1911 | **Little sagebrush/Idaho fescue-bluebunch wheatgrass** | arar8/feid-pssps |
| sd2911 | **Mountain big sagebrush/Idaho fescue-bluebunch wheatgrass** | artrv/feid-pssps |
| sd39 | **Antelope bitterbrush-bluebunch wheatgrass-Idaho fescue** | putr2-pssps-feid |
| sd49 | **Curl-leaf mountain mahogany** | cele3 |
| sd9111 | **Scabland sagebrush/Sandberg bluegrass (scabland)** | arri2/pose |
| sd89 | **Biscuit-scabland (complex)** | n/a |
| sm19 | **Mallow ninebark** | phma5 |
| sm29 | **Thinleaf alder (snowslide)** | alint |
| sm31 | **Common snowberry (shrubland)** | syal |
| ss4911 | **Mountain big sagebrush/Geyer’s sedge** | artrv/cage2 |

Table 15: Reference Code 605

| **PV\_CODE** | **COMMON\_NAME** | **SCIENTIFIC\_NAME** |
| --- | --- | --- |
| cjs112 | **Western juniper/little sagebrush/Idaho fescue** | juoc/arar8/feid |
| clc111 | **Lodgepole pine-whitebark pine/mountain blue penstemon** | pico-pial/pela7 |
| clc112 | **Lodgepole pine-whitebark pine/King’s sandwort** | pico-pial/arki |
| clg315 | **Lodgepole pine/Virginia strawberry-Idaho fescue** | pico/frvip2-feid |
| clg415 | **Lodgepole pine/squirreltail-long-stolon sedge** | pico/elele-cain9 |
| clh111 | **Lodgepole pine-quaking aspens/Virginia strawberry** | pico-potr5/frvip2 |
| cpc211 | **Ponderosa pine-western juniper/curl-leaf mountain mahogany-antelope bitterbrush-basin big sagebrush/Idaho fescue** | pico-juoc/cele3-putr2-artrt/feid |
| cpf111 | **Ponderosa pine/woolly mule-ears** | pipo/wymo |
| cph311 | **Ponderosa pine-quaking aspen/Wheeler bluegrass** | pipo-potr5/pone2 |
| cps121 | **Ponderosa pine/mountain big sagebrush/Wheeler bluegrass** | pipo/artrv/pone2 |
| cps211 | **Ponderosa pine/antelope bitterbrush/Idaho fescue (pumice)** | pipo/putr2/feid |
| cps217 | **Ponderosa pine/antelope bitterbrush-greenleaf manzanita/Idaho fescue (pumice)** | pipo/putr2-arpa6/feid |
| cwc111 | **White fir-ponderosa pine-incense cedar/Saskatoon serviceberry** | abco-pipo-cade27/amal2 |
| cwc311 | **White fir-lodgepole pine/long-stolon sedge-western needlegrass** | abco-pipo/cain9-acoco |
| cwc411 | **White fir-lodgepole pine-sugar pine/sticky currant** | abco-pipo-pila/rivi3 |
| cwc412 | **White fir-ponderosa pine-sugar pine/greenleaf manzanita** | abco-pipo-pila/arpa6 |
| cwh211 | **White fir-ponderosa pine-quaking aspen/long-stolon sedge** | abco-pipo-potr5/cain9 |
| cwS117 | **White fir-ponderosa pine/greenleaf manzanita-hollyleaved barberry** | abco-pipo/arpa6-maaq2 |
| cws313 | **White fir-ponderosa pine/common snowberry/tuber starwort** | abco-pipo/syal/psja2 |
| md3111 | **Kentucky bluegrass (dry meadow)** | popr |
| mm1911 | **Tufted hairgrass-Nebraska sedge (moist meadow)** | deca18-cane2 |
| mw1911 | **Nebraska sedge-Baltic rush (wet meadow)** | cane2-juba |
| sD1913 | **Little sagebrush/Idaho fescue-squirreltail** | arar8/feid-elele |
| sd2912 | **Basin big sagebrush/bluebunch wheatgrass** | artrt/pssps |
| sd9211 | **Little sagebrush-narrowleaf mock goldenweed/Sandberg bluegrass** | arar8-stst5/pose |
| sd9212 | **Little sagebrush/Sandberg bluegrass-onespike danthonia** | arar8/pose-daun |
| ss4912 | **Little sagebrush/red fescue (alpine)** | arar8/feru2 |

Table 16: Reference Code 606

| **PV\_CODE** | **COMMON\_NAME** | **SCIENTIFIC\_NAME** |
| --- | --- | --- |
| clf111 | **Lodgepole pine/forb** | pico/2forb |
| cls413 | **Lodgepole pine/grouse whortleberry/forb** | pico/vasc/2forb |
| cls414 | **Lodgepole pine/grouse whortleberry/long-stolon sedge** | pico/casc/cain9 |
| cms111 | **Mountain hemlock/grouse whortleberry** | tsme/vasc |
| cps111 | **Ponderosa pine/antelope bitterbrush-big sagebrush/Idaho fescue** | pipo/putr2-artr2/feid |
| cps211 | **Ponderosa pine/antelope bitterbrush/Idaho fescue** | pipo/putr2/feid |
| cps212 | **Ponderosa pine/antelope bitterbrush/western needlegrass** | pipo/putr2/acoco |
| crg111 | **Shasta red fir/long-stolon sedge** | absh/cain9 |
| crs112 | **Shasta red fir-mountain hemlock/pinemat manzanita/long-stolon sedge** | absh-tsme/arne/cain9 |
| crs311 | **Shasta red fir/giant chinquapin/pipsissewa-long-stolon sedge** | absh/chchc4/chum-cain9 |
| cwc215 | **White fir-Douglas-fir/snowbrush ceanothus/kinnikinnick** | abco-psme/ceve/aruv |
| cwh112 | **White fir/giant chinquapin-Oregon boxleaf/pipsissewa** | abco/chchc4-pamy/chum |
| cwm111 | **White fir/thinleaf alder (meadow)** | abco/alint |
| cws116 | **White fir/snowbrush ceanothus-squawcarpet/Virginia strawberry** | abco/ceve-cepr/frvi |
| cws312 | **White fir/common snowberry/Virginia strawberry** | abco/syal/frvi |
| sd1913 | **Little sagebrush/Idaho fescue-squirreltail** | arar8/feid-elele |

Table 17: Reference Code 607

| **PV\_CODE** | **COMMON\_NAME** | **SCIENTIFIC\_NAME** |
| --- | --- | --- |
| cfc251 | **Pacific silver fir-western hemlock/Pacific rhododendron-salal** | abam-tshe/rhma3-gash |
| cff152 | **Pacific silver fir/oneleaf foamflower** | abam/titru |
| cff153 | **Pacific silver fir/redwood-sorrel** | abam/oxor |
| cfs151 | **Pacific silver fir/Cascade barberry** | abam/mane2 |
| cfs251 | **Pacific silver fir/thinleaf huckleberry/common beargrass** | abam/vame/xete |
| cfs253 | **Pacific silver fir/oval-leaf blueberry/bunchberry dogwood** | abam/vaov/coca13 |
| cfs254 | **Pacific silver fir/rusty menziesia** | abam/mefe |
| cfs255 | **Pacific silver fir/oval-leaf blueberry-salal** | abam/vaov-gash |
| cfs256 | **Pacific silver fir/thinleaf huckleberry/bride’s bonnet** | abam/vame/clun2 |
| cfs351 | **Pacific silver fir/devilsclub** | abam/opho |
| cfs551 | **Pacific silver fir/Cascade azalea/common beargrass** | abam/rhal2/xete |
| cfs552 | **Pacific silver fir/Cascade azalea/bride’s bonnet** | abam/rhal2/clun2 |
| cfs651 | **Pacific silver fir/vine maple/oneleaf foamflower** | abam/acci/titru |
| cfs652 | **Pacific silver fir/Pacific rhododendron-Cascade barberry** | abam/rhma3-mane2 |
| cfs653 | **Pacific silver fir/Pacific rhododendron/common beargrass** | abam/rhma3/xete |
| cfs654 | **Pacific silver fir/Pacific rhododendron-oval-leaf blueberry/bunchberry dogwood** | abam/rhma3-vaov/coca13 |
| cms114 | **Mountain hemlock/grouse whortleberry** | tsme/vasc |
| cms216 | **Mountain hemlock/thinleaf huckleberry/common beargrass** | tsme/vame/xete |

Table 18: Reference Code 608

| **PV\_CODE** | **COMMON\_NAME** | **SCIENTIFIC\_NAME** |
| --- | --- | --- |
| cff152 | Pacific silver fir/oneleaf foamflower | abam/titru |
| cff253 | Pacific silver fir/sweet after death-bride’s bonnet | abam/actr-clun2 |
| cfs151 | Pacific silver fir/Cascade barbery | abam/mane2 |
| cfs152 | Pacific silver fir/salal (Gifford Pinchot) | abam/gash |
| cfs251 | Pacific silver fir/thinleaf huckleberry/common beargrass | abam/vame/xete |
| cfs254 | Pacific silver fir/rusty menziesia | abam/mefe |
| cfs255 | Pacific silver fir/oval-leaf blueberry-salal | abam/vaov-gash |
| cfs256 | Pacific silver fir/thinleaf huckleberry/bride’s bonnet | abam/vame/clun2 |
| cfs257 | Pacific silver fir/oval-leaf blueberry | abam/vaov |
| cfs351 | Pacific silver fir/devilsclub | abam/opho |
| cfs550 | Pacific silver fir/Cascade azalea (Gifford Pinchot) | abam/rhal2 |
| cms210 | Mountain hemlock/thinleaf huckleberry (Gifford Pinchot) | tsme/vame |
| cms221 | Mountain hemlock/rusty menziesia | tsme/mefe |
| cms223 | Mountain hemlock/Cascade azalea | tsme/rhal2 |

Table 19: Reference Code 609

| **PV\_CODE** | **COMMON\_NAME** | **SCIENTIFIC\_NAME** |
| --- | --- | --- |
| cac1 | Subalpine larch | laly |
| cag112 | Whitebark pine/pinegrass | pial/caru |
| cdg123 | Douglas-fir/kinnikinnick (Okanogan) | psme/aruv |
| cdg131 | Douglas-fir/pinegrass (Okanogan and Colville) | psme/caru |
| cdg311 | Ponderosa pine-Douglas-fir/bluebunch wheatgrass | pipo-psme/pssps |
| cds411 | Douglas-fir/Oregon boxleaf (Okanogan) | psme/pamy |
| cds631 | Douglas-fir/kinnikinnick-antelope bitterbrush | psme/aruv-putr4 |
| cds632 | Douglas-fir/mountain snowberry (Okanogan and Colville) | psme/syor2 |
| cds633 | Douglas-fir/common snowberry | psme/syal |
| cds715 | Douglas-fir/mallow ninebark (Okanogan and Colville) | psme/phma5 |
| cds811 | Douglas-fir/blueberry | psme/vacci |
| cef211 | Subalpine fir/longitude twinflower (Okanogan and Colville) | abla/libol2 |
| ceg311 | Subalpine fir/pinegrass (Okanogan and Colville) | abla/caru |
| cem211 | Engelmann spruce/field horsetail | pien/eqar |
| ces111 | Subalpine fir/Oregon boxleaf (Okanogan) | abla/pamy |
| ces211 | Subalpine fir/Cascade azalea | abla/rhal2 |
| ces312 | Subalpine fir/blueberry | abla/vacci |
| ces412 | Subalpine fir/grouse whortleberry (Okanogan and Colville) | abla/vasc |
| ces413 | subalpine fir/grouse whortleberry/pinegrass (Okanogan) | abla/vasc/caru |
| ces611 | Subalpine fir/pink mountainheath | abla/phem |
| cfs258 | Pacific silver fir/oval-leaf blueberry | abam/vaov |
| cfs553 | Pacific silver fir/Cascade azalea (Okanogan) | abam/rhal2 |
| hqg111 | Quaking aspen/pinegrass | potr5/caru |
| hqg211 | Quaking aspen/common snowberry | potr5/syal |

Table 20: Reference Code 610

| **PV\_CODE** | **COMMON\_NAME** | **SCIENTIFIC\_NAME** |
| --- | --- | --- |
| cjs212 | Western juniper/basin big sagebrush/Idaho fescue-bluebunch wheatgrass (N slope) | juoc/artrt/feid-pssps |
| cjs213 | Western juniper/basin big sagebrush/bluebunch wheatgrass-Sandberg bluegrass (S slope) | juoc/artrt/pssps-pose |
| cjs226 | Western juniper/basin big sagebrush/bluebunch wheatgrass-Idaho fescue (flat) | juoc/artrt/pssps-fied |
| cjs231 | Western juniper/basin big sagebrush-rockspirea/bluebunch wheatgrass-arrowleaf balsamroot (steep canyon) | juoc/artrt-hodu/pssps-basa3 |
| cjs232 | Western juniper/basin big sagebrush-yellow rabbitbrush/Idaho fescue-arrowleaf balsamroot (steep N canyon) | juoc/artrt-chvi8/feid-basa3 |
| cjs291 | Western juniper/rubber rabbitbrush-basin big sagebrush/crested wheatgrass | juoc/ernan5-artrt/agcr |
| cjs292 | Western juniper/rubber rabbitbrush-basin big sagebrush/beardless wheatgrass | juoc/ernan5-artrt/psspi |
| cjsb11 | Western juniper/basin big sagebrush/bluebunch wheatgrass-Idaho fescue (mound) | juoc/artrt/pssps-feid |
| sd9131 | Scabland sagebrush/Sandberg bluegrass-bigseed biscuitroot (scabland) | arri2/pose-loma3 |

Table 21: Reference Code 611

| **PV\_CODE** | **COMMON\_NAME** | **SCIENTIFIC\_NAME** |
| --- | --- | --- |
| cds612 | Mixed conifer/common snowberry/twinflower (flatlands) | 2TE/syal/libo3 |
| cds613 | Mixed conifer/common snowberry/forb | 2te/syal/2forb |
| cds614 | Missed conifer/common snowberry/pinegrass | 2te/syal/caru |
| cjs311 | Western juniper/antelope bitterbrush/bluebunch wheatgrass-Idaho fescue | juoc/putr2/pssps-feid |
| clg311 | Lodgepone pine/western needlegrass (basins, pumice) | pico/acoco |
| clg313 | Lodgepole pine/western needlegrass-tailcup lupine-Nutall’s linanthus | pico/acoco-luca-linu3 |
| clg314 | Lodgepole pine/western needlegrass-tailcup lupine (pumice) | pico/acoco-luca |
| clg411 | Lodgepole pine/long-stolon sedge-tailcup lupine (pumice) | pico/cain9-luca |
| clg412 | Lodgepole pine/long-stolon sedge-tailcup lupine-beardtongue | pico/cain9-luca-penst |
| cl413 | Lodgepole pine/long-stolon sedge-western needlegrass (basins, pumice) | pico/cain9-acoco |
| clm111 | Lodgepole pine/Nebraska sedge-blue wildrye (wetland) | pico/cane2-elgl |
| clm211 | Lodgepole pine/kinnikinnick (pumice) | pico/aruv |
| clm311 | Lodgepole pine/bog blueberry-forb (pumice) | pico/vaul-2forb |
| clm411 | Lodgepole pine/common beargrass (pumice) | pico/xete |
| cls111 | Lodgepole pine/big sagebrush/Idaho fescue (pumice) | pico/artr2/feid |
| cls112 | Lodgepole pine/big sagebrush (rhyolite, pumice) | pico/artr2 |
| cls211 | Lodgepole pine/antelope bitterbrush/western needlegrass (pumice) | pico/putr2/acoco |
| cls212 | Lodgepole pine/antelope bitterbrush/long-stolon sedge (pumice) | pico/putr2/cain9 |
| cls213 | Lodgepole pine/antelope bitterbrush/forb (pumice) | pico/putr2/2forb |
| cls214 | Lodgepole pine/antelope bitterbrush/Idaho fescue (pumice) | pico/putr2/feid |
| cls215 | Lodgepole pine/wax currant-antelope bitterbrush/western needlegrass (pumice) | pico/rice-putr2/acoco |
| cls216 | Lodgepole pine/antelope bitterbrush (rhyolite) | pico/putr2 |
| cls311 | Lodgepole pine/pinemat manzanita | pico/arne |
| cls412 | Lodgepole pine/grouse whortleberry (pumice) | pico/vasc |
| cls911 | Lodgepole pine/snowbrush ceanothus-greenleaf manzanita (pumice) | pico/ceve-arpa6 |
| cms111 | Mountain hemlock/grouse whortleberry | tsme/vasc |
| cpf111 | Ponderosa pine/woolly mule-ears | pipo/wymo |
| cpg212 | Ponderosa pine/long-stolon sedge-Idaho fescue-Nevada pea | pipo/cain9-feid-lala3 |
| cps111 | Ponderosa pine/antelope bitterbrush-big sagebrush/Idaho fescue | pipo/putr2-artr2/feid |
| cps112 | Ponderosa pine/antelope bitterbrush-big sagebrush/squirreltail (rhyolite) | pipo/putr2-artr2/elele |
| cps211 | Ponderosa pine/antelope bitterbrush/Idaho fescue (pumice) | pipo/putr2/feid |
| cps212 | Ponderosa pine/antelope bitterbrush/western needlegrass (pumice) | pipo/putr2/acoco |
| cps213 | Ponderosa pine/antelope bitterbrush-greenleaf manzanita/western needlegrass (pumice) | pipo/putr2-arpa6/acoco |
| cps214 | Ponderosa pine/antelope bitterbrush-greenleaf manzanita/long-stolon sedge (pumice) | pipo/putr2-arpa6/cain9 |
| cps215 | Ponderosa pine/antelope bitterbrush/long-stolon sedge (pumice) | pipo/putr2/cain9 |
| cps216 | Ponderosa pine/antelope bitterbrush/Idaho fescue-bluebunch wheatgrass (pumice) | pipo/putr2/feid-pssps |
| cps217 | Ponderosa pine/antelope bitterbrush-greenleaf manzanita/Idaho fescue (pumice) | pipo/putr2-arpa6/feid |
| cps218 | Ponderosa pine/antelope bitterbrush/squirreltail (rhyolite) | pipo/putr2/elele |
| cps311 | Ponderosa pine/antelope bitterbrush-snowbrush ceanothus/western needlegrass | pipo/putr2-ceve/acoco |
| cps312 | Ponderosa pine/antelope bitterbrush-snowbrush ceanothus/long-stolon sedge | pipo/putr2-ceve/cain9 |
| cps314 | Ponderosa pine/antelope bitterbrush-snowbrush ceanothus/Idaho fescue | pipo/putr2-ceve/feid |
| crs111 | Mixed conifer/pinemat manzanita | 2te/arne |
| cwc211 | Mixed conifer/snowbrush ceanothus-giant chinquapin/western brackenfern | 2te/ceve-chchc4/ptaq |
| cwc212 | Mixed conifer/snowbrush ceanothus-giant chinquapin/pinegrass | 2te/ceve-chchc4/caru |
| cwc213 | Mixed conifer/snowbrush ceanothus/long-stolon sedge-hairy brackenfern | 2te/ceve/cain9-ptaqp2 |
| cwh111 | Mixed conifer/snowbrush ceanothus-giant chinquapin | 2te/ceve-chchc4 |
| cws112 | Mixed conifer/snowbrush ceanothus-greenleaf manzanita (pumice) | 2te/ceve-arpa6 |
| cws113 | Mixed conifer/snowbrush ceanothus-greenleaf manzanita/long-stolon sedge-glaucus beardtongue | 2te/ceve-arpa6/cain9-peeu |
| cws114 | Mixed conifer/snowbrush ceanothus (pumice) | 2te/ceve |
| cws115 | Mixed conifer/snowbrush ceanothus/long-stolon sedge | 2te/ceve/cain9 |
| cws911 | Englemann spruce (bottomlands) | pien |
| gb99 | Sandberg bluegrass-onespike danthonia (scabland) | pose-daun |
| md1911 | Meadow, dry | n/a |
| mm19 | Meadow, moist (tufted hairgrass) | deca18 |
| mm90 | Meadow, moist (bluegrass) | poa |
| mw | Meadow, wet (surface moist or wet all growing season) | n/a |
| sd1912 | Little sagebrush/Idaho fescue | arar8/feid |
| sd2912 | Basin big sagebrush/bluebunch wheatgrass | artrt/pssps |
| sd2913 | Big sagebrush-antelope bitterbrush/Idaho fescue-bluebunch wheatgrass | artr2-putr2/feid-pssps |
| sd2914 | Big sagebrush/western needlegrass (rhyolite pumice) | artr2/acoco |
| sd3311 | Antelope bitterbrush/western needlegrass-long-stolon sedge | putr2/acoco-cain9 |
| sd9323 | Sulpher-flower buckwheat/stipa (flats, rhyolite pumice) | erum/stipa |

Table 22: Reference Code 612

| **PV\_CODE** | **COMMON\_NAME** | **SCIENTIFIC\_NAME** |
| --- | --- | --- |
| chf121 | Western hemlock/redwood-sorrel (coastal) | tshe/oxor |
| chf122 | Western hemlock/western swordfern (coastal) | tshe/pomu |
| chs121 | Western hemlock/Cascade barberry (coastal) | tshe/mane2 |
| chs122 | Western hemlock/Cascade barberry-salal (coastal) | tshe/mane2-gash |
| chs123 | Western hemlock/salal (coastal) | tshe/gash |
| chs221 | Western hemlock/vine maple-salal (coastal) | tshe/acci-gash |
| chs222 | Western hemlock/vine maple/western swordfern barberry (coastal) | tsHe/acci/pomu |
| chs321 | Western hemlock/Pacific rhododendron-Cascade barberry (coast) | tshe/rhma3-mane2 |
| chs322 | Western hemlock/Pacific rhododendron-salal (coast\_ | tshe/rhma3-gash |
| chs323 | Western hemlock/Pacific rhododendron-western swordfern (coast) | tshe/rhma3-pomu |
| chs324 | Western hemlock/Pacific rhododendron-California huckleberry (coast) | tshe/rhma3-vaov2 |
| chs421 | Western hemlock/salmonberry (coastal) | tshe/rusp |
| chs422 | Western hemlock/salmonberry-vine maple (coast) | tshe/rusp-acci |
| chs423 | Western hemlock/salmonberry-salal (coast) | tshe/rusp-gash |
| chs521 | Western hemlock/devilsclub (coastal) | tshe/opho |
| chs610 | Western hemlock/California huckleberry (coastal) | tshe/vaov2 |
| csf121 | Sitka spruce/western swordfern | pisi/pomu |
| csf321 | Sitka spruce/redwood-sorrel | pisi/oxor |
| css221 | Sitka spruce/rusty menziesia-red huckleberry | pisi/mefe-vapa |
| css321 | Sitka spruce/salal | pisi/gash |
| css521 | Sitka spruce/salmonberry | pisi/rusp |
| css522 | Sitka spruce/salmonberry-salal | pisi/rusp-gash |
| css621 | Sitka spruce/devilsclub | pisi/opho |

Table 23: Reference Code 613

| **PV\_CODE** | **COMMON\_NAME** | **SCIENTIFIC\_NAME** |
| --- | --- | --- |
| chc212 | Western hemlock-Douglas-fir/oceanspray | tshe-psme/hodi |
| chc213 | Western hemlock-Douglas-fir-Pacific madrone | tshe-psme-arme |
| chf124 | Western hemlock/western swordfern-redwood-sorrel | tshe/pomu-oxor |
| chf125 | Western hemlock/western swordfern | tshe/pomu |
| chf221 | Western hemlock/sweet after death | tshe/actr |
| chf222 | Western hemlock/threeleaf foamflower | tshe/titr |
| chf421 | Western hemlock/common juniper | tshe/atfi |
| chm121 | Western hemlock/American skunkcabbage | tshe/lyam3 |
| chs125 | Western hemlock/Cascade barberry | tshe/mane2 |
| chs126 | Western hemlock/Cascade barberry/western swordfern | tshe/mane2/pomu |
| chs127 | Western hemlock/Cascade barberry-salal | tshe/mane2-gash |
| chs128 | Western hemlock/salal | tshe/gash |
| chs224 | Western hemlock/Pacific dogwood/sweet after death | tshe/conu4/actr |
| chs524 | Western hemlock/devilsclub/western swordfernt | tshe/opho/pomu |
| chs613 | Western hemlock/oval-leaf blueberry/redwood-sorrel | tshe/vaov/oxor |
| chs614 | Western hemlock/oval-leaf blueberry-salal | tshe/vaov-gash |
| chs615 | Western hemlock/oval-leaf blueberry/bunchberry dogwood | tshe/vaov/coca13 |

Table 24: Reference Code 614

| **PV\_CODE** | **COMMON\_NAME** | **SCIENTIFIC\_NAME** |
| --- | --- | --- |
| chc212 | **Western hemlock-Douglas-fir/oceanspray** | tsme-psme/hodi |
| chf123 | **Western hemlock/western swordfern** | tshe/pomu |
| chf124 | **Western hemlock/western swordfern-redwood-sorrel** | tshe/pomu-oxor |
| chf221 | **Western hemlock/sweet after death** | tshe/actr |
| chm121 | **Western hemlock/American skunkcabbage** | tshe/lyam3 |
| chs124 | **Western hemlock/Cascade barberry-salal** | tshe/mane2-gash |
| chs125 | **Western hemlock/Cascade barberry** | tshe/mane2 |
| chs126 | **Western hemlock/Cascade barberry/western swordfern** | tshe/mane2/pomu |
| chs223 | **Western hemlock/vine maple/sweet after death** | tshe/acci/actr |
| chs325 | **Western hemlock/Pacific rhododendron/common beargrass** | tshe/rhma3/xete |
| chs326 | **Western hemlock/Pacific rhododendron-oval-leaf blueberry/bunchberry dogwood** | tshe/rhma3-vaov/coca13 |
| chs327 | **Western hemlock/Pacific rhododendron-salal** | tshe/rhma3-gash |
| chs328 | **Western hemlock/Pacific rhododendron-Cascade barberry** | tshe/thma3-mane2 |
| chs522 | **Western hemlock/devilsclub/redwood-sorrel** | tshe/opho/oxor |
| chs523 | **Western hemlock/devilsclub/starry false lily of the valley** | tshe/opho/mast4 |
| chs611 | **Western hemlock/oval-leaf blueberry-devilsclub** | tshe/vaov-opho |
| chs612 | **Western hemlock/thinleaf huckleberry/common beargrass** | tshe/vame/xete |
| chs613 | **Western hemlock/oval-leaf blueberry/redwood-sorrel** | thse/vaov/oxor |
| chs614 | **Western hemlock/oval-leaf blueberry-salal** | tshe/vaov-gash |
| chs615 | **Western hemlock/oval-leaf blueberry/bunchberry dogwood** | tshe/vaov/coca13 |

Table 25: Reference Code 615

| **PV\_CODE** | **COMMON\_NAME** | **SCIENTIFIC\_NAME** |
| --- | --- | --- |
| cdg121 | Douglas-fir/pinegrass | psme/caru |
| cds622 | Douglas-fir/common snowberry | psme/syal |
| cds623 | Douglas-fir/mountain snowberry | psme/syor2 |
| cds634 | Douglas-fir/white spirea | psme/phma5 |
| cds711 | Douglas-fir/mallow ninebark | psme/phma5 |
| cds722 | Douglas-fir/Rocky Mountain maple-mallow ninebark | psme/acgl-phma5 |
| cds812 | Douglas-fir/thinleaf huckleberry | psme/vame |
| cef221 | Subalpine fir/twinflower | abla/libo3 |
| cef311 | Subalpine fir/claspleaf twisted stalk | abla/stam2 |
| cef411 | Subalpine fir/Jacob’s ladder | abla/popu3 |
| ceg312 | Subalpine fir/pinegrass | abla/caru |
| ces131 | Subalpine fir/bride’s bonnet | abla/clun2 |
| ces221 | Subalpine fir/rusty menziesia | abla/mefe |
| ces315 | Subalpine fir/thinleaf huckleberry | abla/vame |
| ces415 | Subalpine fir/grouse whortleberry/Jacob’s-ladder | abla/vasc/popu3 |
| cjg111 | Western juniper/Idaho fescue-bluebunch wheatgrass | juoc/feid-pssps |
| clf211 | Lodgepole pine/twinflower | pico/libo3 |
| cls415 | Lodgepole pine/grouse whortleberry/Jacob’s-ladder | pico/vasc/popu3 |
| cls515 | Lodgepole pine/thinleaf huckleberry | pico/vame |
| cms131 | Mountain hemlock/grouse whortleberry | tsme/vasc |
| cms231 | Mountain hemlock/thinleaf huckleberry | tsme/vame |
| cps522 | Ponderosa pine/common snowberry | pipo/syal |
| cps523 | Ponderosa pine/white spirea | pipo/spbe2 |
| cwf311 | Grand fir/twinflower | abgr/libo3 |
| cwf421 | Grand fir/bride’s bonnet | abgr/clun2 |
| cwf422 | Grand fir/Pacific yew/bride’s bonnet | abgr/tabr2/clun2 |
| cwf511 | Grand fir/Idaho goldthread | abgr/cooc |
| cwg112 | Grand fir/pinegrass | abgr/caru |
| cws211 | Grand fir/thinleaf huckleberry | abgr/vame |
| cws321 | Grand fir/white spirea | abgr/spbe2 |
| cws412 | Grand fir/Rocky Mountain maple-mallow ninebark | abgr/acgl-phma5 |
| cws912 | Grand fir/Rocky Mountain maple | abgr/acgl |
| fm9111 | Douglas’ buckwheat/Sandberg bluegrass | erdo/pose |
| fm9112 | Blue Mountain buckwheat/Sandberg bluegrass | erst4/pose |
| fm9113 | Sulphur-flower buckwheat | erume |
| fw | Meadow, ridgetops | n/a |
| fw3911 | Cusick’s camas | cacu2 |
| fx4111 | Wallowa lewisia | lecow |
| gb1211 | Sand dropseed (river terrace) | spcr |
| gb1911 | Bluebunch wheatgrass-sand dropseed-Fendler threeawn | pssps-spcr-arpul |
| gb4111 | Bluebunch wheatgrass-parsnipflower buckwheat | pssps-erhe2 |
| gb4112 | Bluebunch wheatgrass-Sandberg bluegrass-narrowleaf skullcap | pssps-pose-scan3 |
| gb4113 | Bluebunch wheatgrass-Sandberg bluegrass | pssps-pose |
| gb4114 | Bluebunch wheatgrass-Sandberg bluegrass-Cusick’s milkvetch | pssps-pose-ascu5 |
| gb4115 | Bluebunch wheatgrass-Sandberg bluegrass-shaggy fleabane | pssps-pose-erpu2 |
| gb4116 | Bluebunch wheatgrass-Sandberg bluegrass (granite) | pssps-pose |
| gb4117 | Bluebunch wheatgrass-Sandberg bluegrass-Snake River phlox | pssps-pose-phco10 |
| gb4118 | Bluebunch wheatgrass-Sandberg bluegrass-plains pricklypear | pssps-pose-oppo |
| gb4911 | Bluebunch wheatgrass-Sandberg bluegrass (scabland) | pssps-pose |
| gb5121 | Common snowberry/Idaho fescue-bluebunch wheatgrass/silky lupine | syal/feid-pssps/luse4 |
| gb5911 | Idaho fescue-prairie junegrass (ridgetops) | feid-koma |
| gb5912 | Idaho fescue-prairie junegrass (mounds) | feid-koma |
| gb5913 | Idaho fescue-prairie junegrass (high elevation) | feid-koma |
| gb5914 | Idaho fescue-prairie junegrass (low elevation) | feid-koma |
| gb5915 | Idaho fescue-bluebunch wheatgrass (ridgetops) | feid-pssps |
| gb5916 | Idaho fescue-bluebunch wheatgrass-silky lupine | feid-pssps-luse4 |
| gb5917 | Idaho fescue-bluebunch wheatgrass-arrowleaf balsamroot | feid-pssps-basa |
| gb5918 | Idaho fescue-bluebunch wheatgrass-Snake River phlox | feid-pssps-phco10 |
| gb5919 | Common snowberry/Idaho fescue-prairie junegrass | syal/feid-koma |
| gb5920 | Idaho fescue-timber oatgrass-sedge | feid-dain-carex |
| gb5921 | Idaho fescue-Hood’s sedge | feid-caho5 |
| gb5922 | Idaho fescue-Geyer’s sedge | feid-cage2 |
| gb7111 | Basin wildrye | leci4 |
| gb9111 | Sandberg bluegrass-one spike danthonia | pose-daun |
| gs1111 | Greenleaf fescue-Hood’s sedge | fevi-caho5 |
| gs1112 | Greenleaf fescue-silvery lupine | fevi-luarl5 |
| hqg1 | Quaking aspen | potr5 |
| md3112 | Snake River Degenerated Bench | n/a |
| mm1921 | Tufted hairgrass-sedge (moist meadow) | deca18-carex |
| mm1922 | Tufted hairgrass-sedge (wet meadow) | deca18-carex |
| mw19 | Sedge (tall, wet meadow) | carex |
| nts111 | Lewis’ mock orange (talus strips) | phle4 |
| sd2911 | Mountain big sagebrush/Idaho fescue | artrv/feid |
| sd2915 | Mountain big sagebrush/Geyer’s sedge | artrv/cage2 |
| sd2916 | Mountain big sagebrush-antelope bitterbrush/Idaho fescue | artrv/syor2-brca5 |
| sd2917 | Mountain big sagebrush-mountain snowberry-California brome | artrv-syor2-brca5 |
| sd30 | Squaw apple-mountain snowberry | pera4-syor2 |
| sd3111 | Antelope bitterbrush/Idaho fescue-bluebunch wheatgrass | putr2/feid-pssps |
| sd3112 | Antelope bitterbrush/bluebunch wheatgrass | putr2/pssps |
| sd49 | Curl-leaf mountain mahogany | cele3 |
| sd5611 | Netleaf hackberry/bluebunch wheatgrass | celar/pssps |
| sd6121 | Smooth sumac/bluebunch wheatgrass | glspa/pssps |
| sd65 | Spiny greasebush/bluebunch wheatgrass | arri2/pssps |
| sd9111 | Scabland sagebrush/Sandberg bluegrass | arri2/pose |
| sd9322 | Buckwheat/Oregon twinpod | eriog/phor2 |
| sm19 | Mountain ninebark/common snowberry | phma5/syal |
| sm3111 | Common snowberry-rose | syal/rosa5 |
| sm32 | Mountain snowberry | syor2 |

Table 26: Reference Code 616

| **PV\_CODE** | **COMMON\_NAME** | **SCIENTIFIC\_NAME** |
| --- | --- | --- |
| CDC711 | Douglas-fir-western hemlock/Cascade barberry | psme-tshe/mane2 |
| cdc712 | Douglas-fir-western hemlock/Pacific rhododendron | psme-tshe/rhma3 |
| cdc713 | Douglas-fir-western hemlock/salal | psme-tshe/gash |
| cds211 | Douglas-fir/oceanspray-Cascade barberry | psme/hodi-mane2 |
| cds212 | Douglas-fir/oceanspray/grass | psme/hodi/2gram |
| cds213 | Douglas-fir/oceanspray-common whipplea | psme/hodi-whmo |
| cds641 | Douglas-fir/creeping snowberry | psme/symo |
| cfc251 | Pacific silver fir-western hemlock/Pacific rhododendron-salal | abam-tshe/thma3-gash |
| cfc311 | Pacific silver fir-grand fir/starry false lily-of-the-valley | abam-abgr/mast4 |
| cff152 | Pacific silver fir/oneleaf foamflower | abam/titru |
| cff153 | Pacific silver fir/redwood-sorrel | abam/oxor |
| cfs151 | Pacific silver fir/Cascade barberry | abam/mane2 |
| cfs251 | Pacific silver fir/thinleaf huckleberry/common beargrass | abam/vame/xete |
| cfs253 | Pacific silver fir/oval-leaf blueberry/bunchberry dogwood | abam/vaov/coca13 |
| cfs254 | Pacific silver fir/rusty menziesia | abam/mefe |
| cfs255 | Pacific silver fir/oval-leaf blueberry-salal | abam/voav-gash |
| cfs256 | Pacific silver fir/thinleaf huckleberry/bride’s bonnet | abam/vame/clun2 |
| cfs351 | Pacific silver fir/devilsclub | abam/opho |
| cfs551 | Pacific silver fir/Cascade azalea/common bearrgass | abam/rhal2/xete |
| cfs552 | Pacific silver fir/Cascade azalea/bride’s bonnet | abam/rhal2/clun2 |
| cfs651 | Pacific silver fir/vine maple/oneleaf foamflower | abam/acci/titru |
| cfs652 | Pacific silver fir/Pacific rhododendron-Cascade barberry | abam/rhma3-mane2 |
| cfs653 | Pacific silver fir/Pacific rhododendron/common beargrass | abam/rhma3/xete |
| cfs654 | Pacific silver fir/Pacific rhododendron-oval-leaf blueberry/bunchberry dogwood | abam/rhma3-vaov/coca13 |
| chf111 | Western hemlock/redwood-sorrel (Willamette) | tshe/oxor |
| chf151 | Western hemlock/western swordfern (Willamette) | tshe/pomu |
| chf221 | Western hemlock/sweet after death | tshe/actr |
| chf321 | Western hemlock/twinflower | tshe/libo3 |
| chs111 | Western hemlock/salal (Willamette) | tshe/gash |
| chs113 | Western hemlock/Cascade barberry/redwood-sorrel | tshe/mane2/oxor |
| chs114 | Western hemlock/Cascade barberry/sweet after death | tshe/mane2/actr |
| chs124 | Western hemlock/Cascade barberry-salal | tshe/mane2-gash |
| chs125 | Western hemlock/Cascade barberry | tshe/mane2 |
| chs326 | Western hemlock/Pacific rhododendron-oval-leaf blueberry/bunchberry dogwood | tshe/rhma3-vaov/coca13 |
| chs351 | Western hemlock/Pacific rhododendron-salal (Willamette) | tshe/rhma3-gash |
| chs352 | Western hemlock/Pacific rhododendron-Cascade barberry (Willamette) | tshe/rhma3-mane2 |
| chs353 | Western hemlock/Pacific rhododendron/common beargrass (Willamette) | tshe/Rhma3/xete |
| chs354 | Western hemlock/Pacific rhododendron/redwood-sorrel | tshe/rhma3/oxor |
| chs355 | Western hemlock/Pacific rhododendron/twinflower | tshe/rhma3/libo3 |
| chs511 | Western hemlock/devilsclub (Willamette) | tshe/opho |
| chs615 | Western hemlock/oval-leaf blueberry/bunchberry dogwood | tshe/vaov/coca13 |
| cmg211 | Mountain hemlock/woodrush | tsme/luzul |
| cms114 | Mountain hemlock/grouse whortleberry | tsme/vasc |
| cms216 | Mountain hemlock/thinleaf huckleberry/common beargrass | tsme/vame/xete |
| cms612 | Mountain hemlock/Pacific rhododendron | tsme/rhma3 |
| cwf211 | Grand fir/pipsissewa | abgr/chum |
| cwf521 | Grand fir/kinnikinnick | abgr/aruv |
| cwf522 | Grand fir/Cascade barberry | abgr/mane2 |
| fm2911 | Common beargrass-red fescue | xete-feru2 |
| fm3011 | Garden vetch-subalpine fleabane-blue wildrye | visa-erpe3-elgl |
| fm9911 | Common woolly sunflower-varileaf phacelia | erla6-phhe2 |
| fw5111 | False hellebore-common cowparsnip | verat-hema80 |
| gm4121 | Blue wildrye-bromegrass | elgl-bromu |
| mm3911 | Sedge-Howell’s marsh marigold | carex-caleh2 |
| mt1911 | Sedge-panicled bulrush (hydric) | carex-scmi2 |
| ncs111 | Shrub (lava flows) | 2shrub |
| nrl911 | Rock garden (steep, xeric) | n/a |
| nrl912 | Rock garden (steel, moist) | n/a |
| nrr911 | Rock garden (flat, xeric) | n/a |
| nts211 | Vine maple (talus) | acci |
| nts911 | Talus | n/a |
| sm5911 | Thimbleberry/poke knotweed | rupa/poph |
| sm8111 | Sitka alder (rocky soil) | alvis |
| sm8112 | Vine maple (rocky soil) | acci |
| sw4121 | Blueberry-rose meadowsweet/grass | vacci-spsps/2gram |
| sw4122 | Rose spirea-bog blueberry/sedge | spdo-vaul/carex |
| sw4123 | Spirea-willow/sedge | spira-salix/carex |

Table 27: Reference Code 617

| **PV\_CODE** | **COMMON\_NAME** | **SCIENTIFIC\_NAME** |
| --- | --- | --- |
| cem111 | Engelmann spruce/widefruit sedge | pien/caan15 |
| cem221 | Engelmann spruce/field horsetail-twistedstalk | pien/eqar-strep3 |
| cem222 | Engelmann spruce/bride’s bonnet | pien/clun2 |
| cem311 | Engelmann spruce/bog blueberry/forb | pien/vaul/2forb |
| cem312 | Engelmann spruce/bog blueberry/widefruit sedge | pien/vaul/caan15 |
| clm112 | Lodgepole pine/Kentucky bluegrass | pico/popr |
| clm113 | Lodgepole pine/widefruit sedge | pico/caan15 |
| clm114 | Lodgepole pine/water sedge | pico/caaq |
| clm211 | Lodgepole pine/kinnikinnick | pico/aruv |
| clm311 | Lodgepole pine/bog blueberry-forb | pico/vaul-2forb |
| clm312 | Lodgepole pine/bog blueberry/widefruit sedge | pico/vaul/caan15 |
| clm313 | Lodgepole pine/rose spirea/forb | pico/spdo/2forb |
| clm314 | Lodgepole pine/rose spirea/widefruit sedge | pico/spdo/caan15 |
| clm911 | Lodgepole pine-Englemann spruce/fewflower spikerush | pico-pien/elquz |
| cps511 | Ponderosa pine/common snowberry (floodplain) | pipo/syal |
| cwf431 | White fir/bride’s bonnet | abco/clun2 |
| fw4111 | Bride’s bonnet-gray alder | clun2-alin2 |
| fs4211 | Arrowleaf ragwort | setr |
| hqm121 | Quaking aspen/blue wildrye | potr5/elgl |
| hqm411 | Quaking aspen-lodgepole pine/rose spirea/widefruit sedge | potr5-pico/spdo/caan15 |
| hqs221 | Quaking aspen/common snowberry/blue wildrye | potr5/syal/elgl |
| md1911 | Cusick’s bluegrass | pocu3 |
| md3111 | Kentucky bluegrass | popr |
| mm1912 | Tufted hairgrass | deca18 |
| mm2911 | Woolly sedge | cape42 |
| mm2912 | Nebraska sedge | cane2 |
| mm2913 | Widefruit sedge | caan15 |
| mm2914 | Water sedge | caaq |
| mm2915 | Analogue sedge | cani2 |
| ms1111 | Brewer’s sedge | cabr12 |
| ms2111 | Black alpine sedge | cani2 |
| ms2112 | Broom sedge-black alpine-tufted hairgrass | casc11-cani2-deca18 |
| ms3111 | Mountain sedge | casc12 |
| mw1921 | Panicled bulrush-bigleaf sedge | scmi2-caam10 |
| mw1922 | Sitka sedge | caaqd |
| mw1923 | Blister sedge | cave6 |
| mw1924 | Beaked sedge | caro6 |
| mw2911 | Woollyfruit sedge | cala11 |
| mw4911 | Fewflower spikerush | elqu2 |
| mw4912 | Common spikerush | elpa3 |
| sd2311 | Big sagebrush-silver sagebrush/Cusick’s bluegrass | artr2-arca13/pocu3 |
| ss1911 | Pink mountainheath | phem |
| sw1111 | Willow/Kentucky bluegrass | salix/popr |
| sw1112 | Willow/woolly sedge | salix/cape42 |
| sw1113 | Willow/widefruit sedge | salix/caan15 |
| sw1114 | Willow/water sedge | salix/caaq |
| sw1115 | Willow/Sitka sedge | salix/caaqd |
| sw1116 | Willow/beaked sedge | salix/caro6 |
| sw2211 | Gray alder/common snowberry | alin2/syal |
| sw2212 | Gray alder/rose spirea | alin2/spdo |
| sw2213 | Gray alder (spring) | alin2 |
| sw2911 | Gray alder | alin2 |
| sw4111 | Bog blueberry/Sitka sedge | vaul/caaqd |
| sw4112 | Bog blueberry/fewflower spikerush | vaul/elqu2 |

Table 28: Reference Code 618

| **PV\_CODE** | **COMMON\_NAME** | **SCIENTIFIC\_NAME** |
| --- | --- | --- |
| cds221 | Douglas-fir/oceanspray-dwarf rose | psme/hodi-rogy |
| cds255 | Douglas-fir/salal | psme/gash |
| cds651 | Douglas-fir/kinnikinnick | psme/aruv |
| cef321 | Subalpine fir/broadleaf lupine | abla/lula4 |
| ces212 | Subaline fir/Cascade azalea (Olympic) | abla/rhal2 |
| ces321 | Subalpine fir/thinleaf huckleberry (Olympic) | abla/vame |
| ces621 | Subalpine fir/common juniper | abla/juco6 |
| cff111 | Pacific silver fir/redwood-sorrel (Olympic) | abam/oxor |
| cff211 | Pacific silver fir/sweet after death-oneleaf foamflower | abam/actr-titru |
| cff311 | Pacific silver fir/common beargrass | abam/xete |
| cff611 | Pacific silver fir/western swordfern | abam/pomu |
| cff612 | Pacific silver fir/western swordfern-redwood-sorrel | abam/pomu-oxor |
| cff911 | Pacific silver fir (depauperate) | abam |
| cfm111 | Pacific silver fir/American skunkcabbage | abam/lyam3 |
| cfs154 | Pacific silver fir/salal (Olympic) | abam/gash |
| cfs155 | Pacific silver fir/salal/deer fern | abam/gash/blsp |
| cfs156 | Pacific silver fir/salal/redwood-sorrel | abam/gash/oxor |
| cfs211 | Pacific silver fir/thinleaf huckleberry/common beargrass (Olympic) | abam/vame/xete |
| cfs212 | Pacific silver fir/oval-leaf blueberry (Olympic) | abam/vaov |
| cfs213 | Pacific silver fir/oval-leaf blueberry/white avalanche-lily | abam/vaov/ermo8 |
| cfs214 | Pacific silver fir/oval-leaf blueberry/common beargrass (Olympic) | abam/vaov/xete |
| cfs215 | Pacific silver fir/oval-leaf blueberry/oneleaf foamflower | abam/vaov/titru |
| cfs216 | Pacific silver fir/oval-leaf blueberry-Cascade barberry | abam/vaov-mane2 |
| cfs217 | Pacific silver fir/oval-leaf blueberry/redwood-sorrel | abam/vaov/oxor |
| cfs218 | Pacific silver fir/oval-leaf blueberry/bride’s bonnet | abam/vaov/clun2 |
| cfs219 | Pacific silver fir/oval-leaf blueberry/twinflower | abam/vaov/libo3 |
| cfs220 | Pacific silver fir/oval-leaf blueberry-Cascade azalea | abam/vaov-titru |
| cfs311 | Pacific silver fir/devilsclub (Olympic) | abam/opho |
| cfs611 | Pacific silver fir/Pacific rhododendron (Olympic) | abam/rhma3 |
| cfs612 | Pacific silver fir/Pacific rhododendron-oval-leaf blueberry | abam/rhma3-vaov |
| chf112 | Western hemlock/redwood-sorrel (Olympic) | tshe/oxor |
| chf131 | Western hemlock/western swordfern-redwood-sorrel | tshe/pomu-oxor |
| chf132 | Western hemlock/western swordfern-threeleaf foamflower | tshe/pomu-titr |
| chf211 | Western hemlock/sweet after death (Olympic) | tshe/actr |
| chf511 | Western hemlock/common beargrass (Olympic) | tshe/xete |
| chf911 | Western hemlock/depauperate | tshe |
| chm111 | Western hemlock/American skunkcabbage (Olympic) | tshe/lyam3 |
| chs131 | Western hemlock/salal (Olympic) | tshe/gash |
| chs132 | Western hemlock/salal/common beargrass | tshe/gash/xete |
| chs133 | Western hemlock/salal-California huckleberry | tshe/gash-vaov2 |
| chs134 | Western hemlock/salal-oceanspray | tshe/gash-hodi |
| chs135 | Western hemlock/salal-Cascade barberry | tshe/gash-mane2 |
| chs136 | Western hemlock/salal/redwood-sorrel | tshe/gash/oxor |
| chs137 | Western hemlock/salal/western swordfern | tshe/gash/pomu |
| chs138 | Western hemlock/Cascade barberry (Olympic) | tshe/mane2 |
| chs139 | Western hemlock/Cascade barberry/western swordfern (Olympic) | tshe/mane2/pomu |
| chs331 | Western hemlock/Pacific rhododendron (Olympic) | tshe/rhma3 |
| chs332 | Western hemlock/Pacific rhododendron/common beargrass | tshe/rhma3/xete |
| chs333 | Western hemlock/Pacific rhododendron-Cascade barberry (Olympic) | tshe/rhma3-mane2 |
| chs334 | Western hemlock/Pacific rhododendron-salal (Olympic) | tshe/rhma3-gash |
| chs335 | Western hemlock/Pacific rhododendron/western swordfern (Olympic) | tshe/rhma3/pomu |
| chs512 | Western hemlock/devilsclub (Olympic) | tshe/opho |
| chs621 | Western hemlock/oval-leaf blueberry | tshe/vaov |
| chs622 | Western hemlock/oval-leaf blueberry/common beargrass | tshe/vaov/xete |
| chs623 | Western hemlock/oval-leaf blueberry/redwood-sorrel | tshe/vaov/oxor |
| chs624 | Western hemlock/oval-leaf blueberry-salal (Olympic) | tshe/vaov-gash |
| cms241 | Mountain hemlock/oval-leaf blueberry | tsme/vaov |
| cms242 | Mountain hemlock/oval-leaf blueberry/white avalanche lily | tsme/vaov/ermo8 |
| cms243 | Mountain hemlock/oval-leaf blueberry/common beargrass | tsme/vaov/xete |
| cms244 | Mountain hemlock/thinleaf huckleberry-oval-leaf blueberry | tsme/vame-vaov |
| cms245 | Mountain hemlock/thinleaf huckleberry/common beargrass (Olympic) | tsme/vame/xete |
| cms311 | Mountain hemlock/pink mountainheath-Cascade bilberry | tsme/phem-vade |
| cms312 | Mountain hemlock/Cascade azalea thinleaf huckleberry | tsme/rhal2-vame |
| csf111 | Sitka spruce/western swordfern-redwood-sorrel | pisi/pomu-oxor |

Table 29: Reference Code 619

| **PV\_CODE** | **COMMON\_NAME** | **SCIENTIFIC\_NAME** |
| --- | --- | --- |
| ccf211 | Western red cedar-grand fir/sweet after death | thpl-abgr/actr |
| cdg141 | Douglas-fir/Geyer’s sedge | psme/cage2 |
| cdg321 | Douglas-fir/western fescue | psme/feoc |
| cds231 | Douglas-fir/oceanspray/Geyer’s sedge | psme/hodi/cage2 |
| cds661 | Douglas-fir/common snowberry | psme/syal |
| cds662 | Douglas-fir/pinemat manzanita | psme/arne |
| chc311 | Western hemlock-grand fir/bride’s bonnet | tshe-abgr/clun2 |
| cph211 | Ponderosa pine-Oregon white oak/arrowleaf balsamroot | pipo-quga4/basa3 |
| cph212 | Ponderosa pine-Oregon white oak/antelope bitterbrush | pipo-quga4/putr2 |
| cwc511 | Grand fir-Englemann spruce/starry false lily of the valley | abgr-pien/mast4 |
| cwf321 | Grand fir/twinflower | abgr/libo3 |
| cwf521 | Grand fir/broadleaf starflower | abgr/trbol |
| cwf522 | Grand fir/sweet after death | abgr/actr |
| cwf523 | Grand fir/Jacob’s-ladder | abgr/popu3 |
| cwg121 | Grand fir/Geyer’s sedge | abgr/cage2 |
| cws331 | Grand fir/snowberry | abgr/symph |
| cws531 | Grand fir/oceanspray | abgr/hodi |
| cws532 | Grand fir/vine maple/sweet after death | abgr/acci/actr |
| cws533 | Grand fir/giant chinquapin | abgr/chchc4 |

Table 30: Reference Code 620

| **PV\_CODE** | **COMMON\_NAME** | **SCIENTIFIC\_NAME** |
| --- | --- | --- |
| ccf212 | Western red cedar/sweet after death | thpl/actr |
| cds241 | Douglas-fir/vine maple/western fescue | psme/acci/feoc |
| cwg122 | Grand fir/Geyer’s sedge (Gifford Pinchot) | abgr/cage2 |
| cwg123 | Grand fir/pinegrass | abgr/caru |
| cws221 | Grand fir/thinleaf huckleberry/twinflower | abgr/vame/libo3 |
| cws222 | Grand fir/thinleaf huckleberry/bride’s bonnet | abgr/vame/clun2 |
| cws223 | Grand fir/thimbleberry/drops of gold | abgr/rupa/diho3 |
| cws224 | Grand fir/Cascade barberry/sweet after death | abgr/mane2/actr |
| cws332 | Grand fir/creeping snowberry/sweet after death | abgr/symo/actr |
| cws534 | Grand fir/oceanspray (Gifford Pinchot) | abgr/hodi |
| cws535 | Grand fir/vine maple-hollyleaved barberry/broadleaf starflower | abgr/acci-maaq2/trbol |
| cws536 | Grand fir/beaked hazelnut/sweet after death | abgr/coco6/actr |
| cws537 | Grand fir/Pacific dogwood/sweet after death | abgr/conu4/actr |

Table 31: Reference Code 621

| **PV\_CODE** | **COMMON\_NAME** | **SCIENTIFIC\_NAME** |
| --- | --- | --- |
| cef341 | Subalpine fir/Sitka valerian | abla/vasi |
| cff154 | Pacific silver fir/oneleaf foamflower-twistedstalk | abam/titru-stlar |
| cff250 | Pacific silver fir/sweet after death | abam/actr |
| cff311 | Pacific silver fir/common beargrass | abam/xete |
| cff450 | Pacific silver fir/strawberry raspberry-deer fern | abam/rupe-blsp |
| cfm111 | Pacific silver fir/American skunkcabbage | abam/lyam3 |
| cfs110 | Pacific silver fir/Cascade barberry (Mt. Baker-Snoqualamie) | abam/mane2 |
| cfs154 | Pacific silver fir/salal-Cascade barberry | abam/gash-mane2 |
| cfs211 | Pacific silver fir/thinleaf huckleberry/common beargrass | abam/vame/xete |
| cfs212 | Pacific silver fir/oval-leaf blueberry (Mt. Baker-Snoqualmie) | abam/vaov |
| cfs214 | Pacific silver fir/oval-leaf blueberry/common beargrass | abam/vaov/xete |
| cfs216 | Pacific silver fir/oval-leaf blueberry-Cascade barberry | abam/vaov-mane2 |
| cfs218 | Pacific silver fir/oval-leaf blueberry/bride’s bonnet | abam/vaov/clun2 |
| cfs221 | Pacific silver fir/thinleaf huckleberry/Sitka valerian | abam/vame/vasi |
| cfs222 | Pacific silver fir/thinleaf huckleberry/twistedstalk | abam/vame/stlar |
| cfs223 | Pacific silver fir/thinleaf huckleberry-oval-leaf blueberry | abam/vame/vaov |
| cfs224 | Pacific silver fir/thinleaf huckleberry | abam/vame |
| cfs225 | Pacific silver fir/oval-leaf blueberry/false lily of the valley | abam/vaov/madi |
| cfs226 | Pacific silver fir/oval-leaf blueberry/oneleaf foamflower | abam/vaov/titru |
| cfs228 | Pacific silver fir/oval-leaf blueberry/sidebells wintergreen | abam/vaov/orse |
| cfs229 | Pacific silver fir/thinleaf huckleberry/sidebells wintergreen | abam/vame/orse |
| cfs230 | Pacific silver fir/oval-leaf blueberry-salal (Mt. Baker-Snoqualmie) | abam/vaov-gash |
| cfs231 | Pacific silver fir/oval-leaf blueberry/western swordfern | abam/vaov/pomu |
| cfs352 | Pacific silver fir/devilsclub-oval-leaf blueberry | abam/opho-vaov |
| cfs554 | Pacific silver fir/Cascade azalea-thinleaf huckleberry | abam/rhal2-vame |
| cfs555 | Pacific silver fir/Cascade azalea-oval-leaf blueberry | abam/rhal2-vaov |
| chf132 | Western hemlock/western swordfern-threeleaf foamflower (Olympic) | tshe/pomu-titr |
| chf133 | Western hemlock/western swordfern-salal | tshe/pomu-gash |
| chf134 | Western hemlock/western swordfern-Cascade barberry | tshe/pomu-mane2 |
| chf250 | Western hemlock/threeleaf foamflower-western oakfern | tshe/titr/gydr |
| chm111 | Western hemlock/American skunkcabbage (Mt. Baker-Snoqualmie) | tshe/lyam3 |
| chs131 | Western hemlock/salal (Mt. Baker-Snoqualmie) | tshe/gash |
| chs132 | Western hemlock/salal/common beargrass | tshe/gash/xete |
| chs135 | Western hemlock/salal-Cascade barberry | tshe/gash-mane2 |
| chs138 | Western hemlock/Cascade barberry (Mt. Baker-Snoqualmie) | tshe/mane2 |
| chs140 | Western hemlock/salal-thinleaf huckleberry | tshe/gash-vame |
| chs141 | Western hemlock/Cascade barberry/little prince’s pine | tshe/mane2/chme |
| chs251 | Western hemlock/vine maple-Cascade barberry | tshe/acci-mane2 |
| chs513 | Western hemlock/devilsclub-common ladyfern | tshe/opho-atfi |
| chs621 | Western hemlock/oval-leaf blueberry | tshe/vaov |
| chs622 | Western hemlock/oval-leaf blueberry/common beargrass | tshe/vaov/xete |
| chs625 | Western hemlock/oval-leaf blueberry-western swordfern | tshe/vaov-pomu |
| chs626 | Western hemlock/oval-leaf blueberry-Cascade barberry | tshe/vaov-mane2 |
| cmf250 | Mountain hemlock/oneleaf foamflower-twistedstalk | tsme/titru-stlar |
| cmf251 | Mountain hemlock/Howell’s marsh marigold | tsme/caleh2 |
| cms241 | Mountain hemlock/oval-leaf blueberry | tsme/vaov |
| cms244 | Mountain hemlock/thinleaf huckleberry-oval-leaf blueberry | tsme/vame-vaov |
| cms245 | Mountain hemlock/thinleaf huckleberry/common beargrass (Mt. Baker-Snoqualmie) | tsme/vame/xete |
| cms246 | Mountain hemlock/thinleaf huckleberry (Mt. Baker/Snoqualmie) | tsme/vame |
| cms250 | Mountain hemlock/thinleaf huckleberry/twistedstalk | tsme/vame/stlar |
| cms251 | Mountain hemlock/thinleaf huckleberry/Sitka valerian | tsme/vame/vasi |
| cms252 | Mountain hemlock/oval-leaf blueberry/twistedstalk | tsme/vaov/stlar |
| cms253 | Mountain hemlock/oval-leaf blueberry/bride’s bonnet | tsme/vaov/clun2 |
| cms254 | Mountain hemlock/thinleaf huckleberry/roughfruit berry | tsme/vame/rula2 |
| cms255 | Mountain hemlock/oval-leaf blueberry/false lily of the valley | tsme/vaov/madi |
| cms350 | Mountain hemlock/pink mountainheath-Cascade bilberry | tsme/phem-vade |
| cms351 | Mountain hemlock/Cascade azalea-oval-leaf blueberry | tsme/thal2-vaov |
| cms352 | Mountain hemlock/Cascade azalea-thinleaf huckleberry | tsme/thal2-vame |
| cms353 | Mountain hemlock/copperbush/strawberryleaf raspberry | tsme/elpy/rupe |
| cms450 | Mountain hemlock/devilsclub-oval-leaf blueberry | tsme/opho-vaov |

Table 32: Reference Code 622

| **PV\_CODE** | **COMMON\_NAME** | **SCIENTIFIC\_NAME** |
| --- | --- | --- |
| caf0 | Subalpine fir-whitebark pine/Jacob’s ladder | abla-pial/popu3 |
| caf2 | Subalpine fir-whitebark pine/poke knotweed | abla-pial/poph |
| cag111 | Subalpine fir/Geyer’s sedge | abla/cage2 |
| cag3 | Subalpine fir-whitebark pine/Drummond’s rush | abla-pial/judr |
| cag4 | Subalpine fir/western needlegrass | abla/acoco |
| cdg111 | Douglas-fir/Geyer’s sedge | psme/cage2 |
| cdg112 | Douglas-fir/pinegrass | psme/caru |
| cds611 | Douglas-fir/oceanspray | psme/hodi |
| cds624 | Douglas-fir/common snowberry | psme/syal |
| cds625 | Douglas-fir/mountain snowberry | psme/syor2 |
| cds711 | Douglas-fir/mallow ninebark | psme/phma5 |
| cds821 | Douglas-fir/thinleaf huckleberry | psme/vame |
| cdsd | Douglas-fir/curl-leaf mountain mahogany/Geyer’s sedge | psme/cele3/cage2 |
| cef331 | Subalpine fir/Carolina bugbane | abla/trca |
| ces221 | Subalpine fir/rusty menziesia | abla/mefe |
| ces311 | Subalpine fir/thinleaf huckleberry | abla/vame |
| ces314 | Subalpine fir/bride’s bonnet | abla/clun2 |
| ces411 | Subalpine fir/grouse whortleberry | abla/vasc |
| ces414 | Subalpine fir/twinflower | abla/libo3 |
| cjg111 | Western juniper/Idaho fescue-bluebunch wheatgrass | JUoc/feid-pssps |
| cjs1 | Western juniper/little sagebrush | juoc/arar8 |
| cjs2 | Western juniper/mountain big sagebrush | juoc/artrv |
| cjs321 | Western juniper/antelope bitterbrush/Idaho fescue-bluebunch wheatgrass | juoc/putr2/feid-pssps |
| cjs4 | Western juniper/mountain mahogany | juoc/cerco |
| cjs8 | Western juniper/scabland sagebrush | juoc/arri2 |
| clg2 | Lodgepole pine/pinegrass | pico/caru |
| cls4 | Lodgepole pine/grouse whortleberry | pico/vasc |
| cls416 | Lodgepole pine/pinegrass | pico/caru |
| cls5 | Lodgepole pine/thinleaf huckleberry/pinegrass | pico/vame/caru |
| cls6 | Lodgepole pine/Sitka alder | pico/alvis |
| cpg111 | Ponderosa pine/bluebunch wheatgrass | pipo/pssps |
| cpg112 | Ponderosa pine/Idaho fescue | pipo/feid |
| cpg221 | Ponderosa pine/pinegrass | pipo/caru |
| cpg222 | Ponderosa pine/Geyer’s sedge | pipo/cage2 |
| cps1 | Ponderosa pine/mountain big sagebrush/Geyer’s sedge | pipo/artrv/cage2 |
| cps131 | Ponderosa pine/mountain big sagebrush/Idaho fescue-bluebunch wheatgrass | pipo/artrv/feid-pssps |
| cps221 | Ponderosa pine/antelope bitterbrush/Ross’ sedge | pipo/putr2/caro5 |
| cps222 | Ponderosa pine/antelope bitterbrush/Geyer’s sedge | pipo/putr2/cage2 |
| cps226 | Ponderosa pine/antelope bitterbrush/Idaho fescue-bluebunch wheatgrass | pipo/putr2/feid-pssps |
| cps232 | Ponderosa pine/curl-leaf mountain mahogany/Geyer’s sedge | pipo/cele3/cage2 |
| cps233 | Ponderosa pine/curl-leaf mountain mahogany/Wheeler bluegrass | pipo/cele3/pone2 |
| cps234 | Ponderosa pine/curl-leaf mountain mahogany/Idaho fescue-bluebunch wheatgrass | pipo/cele3/feid-pssps |
| cps524 | Ponderosa pine/common snowberry | pipo/syal |
| cps525 | Ponderosa pine/mountain snowberry | pipo/syor2 |
| cwc811 | Grand fir/Pacific yew/bride’s bonnet | abgr/tabr2/clun2 |
| cwc812 | Grand fir/Pacific yew/twinflower | abgr/tabr2/libo3 |
| cwf312 | Grand fir/twinflower | abgr/libo3 |
| cwf421 | Grand fir/bride’s bonnet | abgr/clun2 |
| cwf512 | Grand fir/Carolina bugbane | abgr/trca |
| cwf611 | Grand fir/western oakfern | abgr/gydr |
| cwf612 | Grand fir/western swordfern-British Columbia wildginger | abgr/pomu-asca2 |
| cwg111 | Grand fir/Geyer’s sedge | abgr/cage2 |
| cwg113 | Grand fir/pinegrass | abgr/caru |
| cwg211 | Grand fir/Columbia brome | abgr/brvu |
| cws212 | Grand fir/thinleaf huckleberry | abgr/vame |
| cws322 | Grand fir/white spirea | abgr/spbe2 |
| cws541 | Grand fir/Rocky Mountain maple | abgr/acgl |
| cws811 | Grand fir/grouse whortleberry | abgr/vasc |
| cws812 | Grand fir/grouse whortleberry/twinflower | abgr/vasc/libo3 |
| gb41 | Bluebunch wheatgrass-Sandberg bluegrass | pssps-pose |
| gb4911 | Bluebunch wheatgrass-Sandberg bluegrass-onespike danthonia | pssps-pose-daun |
| gb59 | Idaho fescue-bluebunch wheatgrass | feid-pssps |
| gB9111 | Sandberg bluegrass-onespike danthonia | pose-daun |
| Gs10 | Western needlegrass | acoco |
| gs11 | Greenleaf fescue | pevi |
| gs12 | Idaho fescue | feid |
| sd1911 | Little sagebrush/Idaho fescue-bluebunch wheatgrass | arar8/feid-pssps |
| sd2911 | Mountain big sagebrush/Idaho fescue-bluebunch wheatgrass | artrv/feid-pssps |
| sd3111 | Antelope bitterbrush/Idaho fescue-bluebunch wheatgrass | putr2/feid-pssps |
| sd40 | Curl-leaf mountain mahogany/Geyer’s sedge | cele3/cage2 |
| sd4111 | Curl-leaf mountain mahogany/Idaho fescue-bluebunch wheatgrass | cele3/feid-pssps |
| sd9111 | Scabland sagebrush/Sandberg bluegrass | arri2/pose |
| sd9221 | Little sagebrush/Sandberg bluegrass | arar8/pose |
| sm1111 | Mallow ninebark-common snowberry | phma5-syal |
| sm20 | Sitka alder | alvis |
| sm31 | Common snowberry | syal |
| sm32 | Mountain snowberry | syor2 |
| ss49 | Geyer’s sedge | cage2 |
| ss4911 | Mountain big sagebrush/Geyer’s sedge | artrv/cage2 |

Table 33: Reference Code 623

| **PV\_CODE** | **COMMON\_NAME** | **SCIENTIFIC\_NAME** |
| --- | --- | --- |
| caf211 | Mountain hemlock-subalpine fir/Davis’ knotweed | tsme-abla/poda |
| caf311 | Mountain hemlock-subalpine fir/Cascade aster | tsme-abla/eulel2 |
| cag211 | Mountain hemlock-subalpine fir/greenleaf fescue | tsme-abla/fevi |
| cag311 | Mountain hemlock/Hitchcock’s smooth woodrush | tsme/luglh |
| cag312 | Mountain hemlock-whitebark pine/Hitchcock’s smooth woodrush | tsme-pial/luglh |
| cas211 | Mountain hemlock/pink mountainheath-Cascade bilberry | tsme/phem-vade |
| cas411 | Mountain hemlock-subalpine fir/common juniper | tsme-abla/juco6 |
| cms114 | Mountain hemlock/grouse whortleberry | tsme/vasc |
| cms216 | Mountain hemlock/thinleaf huckleberry/common beargrass | tsme/vame/xete |
| cms218 | Mountain hemlock/thinleaf huckleberry/bride’s bonnet | tsme/vame/clun2 |
| cms221 | Mountain hemlock/rusty menziesia | tsme/mefe |
| cms223 | Mountain hemlock/Cascade azalea | tsme/rhal2 |
| cms612 | Mountain hemlock/Pacific rhododendron | tsme/rhma3 |

Table 34: Reference Code 624

| **PV\_CODE** | **COMMON\_NAME** | **SCIENTIFIC\_NAME** |
| --- | --- | --- |
| cds628 | Douglas-fir/common snowberry (floodplain) | psme/syal |
| cds724 | Douglas-fir/Rocky Mountain maple-mallow ninebark (floodplain) | psme/acgl-phma5 |
| cef332 | Subalpine fir/common ladyfern | abla/atfi |
| cef333 | Subalpine fir/arrowleaf ragwort | abla/setr |
| cef334 | Engelmann spruce/common ladyfern | pien/atfi |
| cef335 | Engelmann spruce/arrowleaf ragwort | pien/setr |
| cem121 | Engelmann sprice/softleaf sedge | pien/cadi6 |
| cem211 | Engelmann spruce/field horsehair | pien/eqar |
| ces511 | Engelmann spruce/redosier dogwood | pien/coses |
| clm112 | Lodgepole pine/Kentucky bluegrass | pico/popr |
| clm114 | Lodgepole pine/water sedge | pico/caaq |
| clm115 | Lodgepole pine/tufted hairgrass | pico/deca18 |
| cpm112 | Ponderosa pine/Kentucky bluegrass | pipo/popr |
| cps511 | Ponderosa pine/common snowberry (floodplain) | pipo/syal |
| cwf611 | Grand fir/western oakfern | abgr/gydr |
| cwf613 | Grand fir/common ladyfern | abgr/atfi |
| cws314 | Grand fir/common snowberry (floodplain) | abgr/syal |
| cws543 | Grand fir/Rocky Mountain maple (floodplain) | abgr/acgl |
| fw4211 | Arrowleaf ragwort | setr |
| fw4212 | Field horsetail | eqar |
| fw4213 | Northern maidenhair | adpe |
| fw5121 | False hellebore | verat |
| gm4111 | Bluejoint | caca4 |
| haf211 | Red alder/arctic sweet coltsfoot | alru2/pefrp |
| has211 | Red alder/Pacific ninebark | alru2/phca11 |
| hcs112 | Black cottonwood/Pacific willow | pobat/salul |
| hcs113 | Black cottonwood/thinleaf alder-redosier dogwood | pobat/alint-coses |
| hcs114 | Black cottonwood/Rocky Mountain maple | pobat/acgl |
| hcs311 | Black cottonwood/common snowberry | pobat/syal |
| hqm122 | Quaking aspen/Kentucky bluegrass | potr5/popr |
| hqm123 | Quaking aspen/bluejoint | potr5/caca4 |
| hqm211 | Quaking aspen/woolly sedge | potr5/cape42 |
| hqs221 | Quaking aspen/common snowberry | potr5/syal |
| md3111 | Kentucky bluegrass | popr |
| mm1912 | Tufted hairgrass | deca18 |
| mm2911 | Woolly sedge | cape42 |
| mm2912 | Nebraska sedge | cane2 |
| mm2914 | Water sedge | caaq |
| mm2915 | Analogue sedge | casi2 |
| mm2916 | Woodrush sedge | calu7 |
| mm2917 | Northwest Territory sedge | caut |
| mm2918 | Cusick’s sedge | cacu5 |
| mm2919 | Lakeshore sedge | calel |
| mm2920 | Woolly fruit sedge | cala11 |
| mm2921 | Bigleaf sedge | caam10 |
| mm2922 | Naked sedge | canu5 |
| mm2924 | Panicled bulrush | scm12 |
| mm2925 | Fowl mannagrass | glst |
| ms3111 | Mountain sedge | casc12 |
| mw1923 | Blister sedge | cavev2 |
| mw3912 | Baltic rush | juba |
| mw4911 | Fewflower spikerush | elqu2 |
| mw4912 | Common spikerush | elpa3 |
| sw1111 | Willow/Kentucky bluegrass | salix/popr |
| sw1112 | Willow/woolly sedge | salix/cape42 |
| sw1114 | Willow/water sedge | salix/caaq |
| sw1117 | Narrowleaf willow | saex |
| sw1121 | Undergreen willow/mountain sedge | saco2/casc12 |
| sw1123 | Willow/Northwest Territory sedge | salix/caut |
| sw2111 | Sitka alder/common ladyfern | alvis/atfi |
| sw2112 | Sitka alder/drooping woodreed | alvis/cila2 |
| sw2114 | Gray alder/bigleaf sedge | alin2/caam10 |
| sw2115 | Gray alder/Northwest Territory sedge | alin2/caut |
| sw2116 | Gray alder/common ladyfern | alin2/atfi |
| sw2117 | Gray alder/field horsetail | alin2/eqar |
| sw2118 | Gray alder/Dewey sedge | alin1/cade9 |
| sw2120 | Gray alder/Kentucky bluegrass | alin2/popr |
| sw2121 | Gray alder/bluejoint | alin2/caca4 |
| sw2122 | Gray alder/panicled bulrush | alin2/scmi2 |
| sw2123 | Gray alder/woolly sedge | alin2/cape42 |
| sw2124 | Thinleaf alder/common cowparsnip | alint/hema80 |
| sw2211 | Gray alder/common snowberry | alin2/syal |
| sw2215 | Gray alder/fowl mannagrass | alin2/glst |
| sw2216 | Gray alder-redosier dogwood/mesic forb | alin2-coses/2forb |
| sw2217 | Gray alder-currant/mesic forb | alin2-ribes/2forb |
| sw3111 | Black hawthorn | crdo2 |
| sw5111 | Currant/drooping woodreed | ribes/cila2 |
| sw5112 | Redosier dogwood | coses |
| sw5113 | Shrubby cinquefoil/tufted hairgrass | dafl3/deca18 |
| sw5114 | Shrubby cinquefoil/Kentucky bluegrass | dafl3/popr |
| sw6111 | Silver sagebrush/tufted hairgrass | arca12/deca18 |
| sw6112 | Silver sagebrush/Kentucky bluegrass | arca12/popr |
| sw6113 | Mountain big sagebrush/Cusick’s bluegrass | artrv/pocu3 |

Table 35: Reference Code 625

| **PV\_CODE** | **COMMON\_NAME** | **SCIENTIFIC\_NAME** |
| --- | --- | --- |
| ccf110 | Western red cedar/common ladyfern-coastal hedgenettle | thpl/atfi-stchc3 |
| ccs110 | Western red cedar/salmonberry-redwood-sorrel | thpl/rusp-oxor |
| cwm210 | Grand fir-western red cedar/American skunkcabbage | abgr-thpl/lyam3 |
| fw4221 | Northern maidenhair | adpe |
| fw4222 | Field horsetail | eqar |
| fw4223 | American skunkcabbage | lyam3 |
| fw4224 | Seep monkeyflower | migu |
| fw4225 | Woodsorrel | oxali |
| fw4226 | Arctic sweet coltsfoot | pefr5 |
| fw4227 | Brook saxifrage-arrowleaf ragwort | saod2-setr |
| fw4228 | Arrowleaf ragwort-giant mountain aster | setr-camo32 |
| fw4229 | Coastal hedgenettle-common ladyfern | stchc3-atfi |
| fw4230 | Coastal hedgenettle-seep monkeyflower | stchc3-migu |
| fw4231 | Coldwater fumewort | cocaa |
| haf221 | Red alder/blue wildrye | alru2/elgl |
| haf222 | Red alder/woodsorrel | alru2/oxali |
| haf223 | Red alder/arctic sweet coltsfoot | alru2/pefr5 |
| haf224 | Red alder/coastal hedgenettle | alru2/stchc3 |
| haf225 | Red alder/youth on age-Siberian springbeauty | alru2/tome-clsis |
| has111 | Red alder/thimbleberry | alru2/rupa |
| has112 | Red alder/salmonberry/woodsorrel | alru2/rusp/oxali |
| has113 | Red alder/salmonberry/youth on age | alru2/rusp/tome |
| has311 | Red alder/vine maple | alru2/acci |
| has411 | Red alder/devilsclub | alru2/opho |
| hcs1 | Black cottonwood | pobat |
| mm2931 | Lakeshore sedge | cale8 |
| mt1921 | Panicled bulrush | scmi2 |
| sw1131 | Sitka willow | sasi2 |
| sw1132 | Sitka willow/arctic sweet coltsfoot | sasi2/pefr5 |
| sw2131 | Gray alder-oval-leaf blueberry | alin2-vaov |
| sw2132 | Sitka alder | alvis |
| sw2511 | Red alder (shrub) | alru2 |
| sw2512 | Red alder (shrub)/Carolina bugbane | alru2/trca |
| sw4131 | Redosier dogwood | coses |
| sw4132 | Oval-leaf blueberry | vaov |
| sw5121 | Stink currant-salmonberry/woodsorrel | ribr-rusp/oxali |
| sw5122 | Stink currant-salmonberry/arctic sweet coltsfoot | ribr-rusp/pefr5 |
| sw5123 | Stink currant-salmonberry/youth on age | ribr-rusp/tome |
| sw70 | Vine maple | acci |
| sw7111 | Vine maple-gray alder | acci-alin2 |
| sw7112 | Vine maple/coastal hedgenettle | acci/stchc3 |
| sw7113 | Devilsclub | opho |

Table 36: Reference Code 626

| **PV\_CODE** | **COMMON\_NAME** | **SCIENTIFIC\_NAME** |
| --- | --- | --- |
| cac111 | Subalpine larch/western moss heather-partridgefoot | laly/came7-lupe |
| cac112 | Subalpine larch/eightpetal mountain-avens | laly/droc |
| cac113 | Subalpine larch/common juniper | laly/juco6 |
| cac114 | Subalpine larch/Cascade bilberry-western moss heather | laly/vade-came7 |
| cac115 | Subalpine larch/grouse whortleberry/Hitchcock’s smooth woodrush | laly/vasc/luglh |
| caf321 | Whitebark pine/eightpetal mountain-avens | pial/droc |
| cag112 | Whitebark pine/pinegrass | pial/caru |
| cag221 | Whitebark pine/Greenleaf fescue | pial/fevi |
| cas221 | Whitebark pine/western moss heather/partridgefoot | pial/came7/lupe |
| cas311 | Whitebark pine/grouse whortleberry/Hitchcock’s smooth woodrush | pial/vasc/luglh |
| cas421 | Whitebark pine/common juniper | pial/juco6 |
| ccs211 | Western red cedar/devilsclub | psme/opho |
| cdf411 | Douglas-fir/bush penstemon | psme/pefr3 |
| cdg131 | Douglas-fir/pinegrass (Ikanogan and Colville) | psme/caru |
| cdg132 | Douglas-fir/Geyer’s sedge (Wenatchee) | psme/cage2 |
| cdg134 | Douglas-fir/pinegrass-bluebunch wheatgrass | psme/caru-pssps |
| cdg322 | Douglas-fir/bluebunch wheagreass (Wenatchee) | psme/pssps |
| cdg323 | Douglas-fir/bluebunch wheatgrass-Indian’s dream | psme/pssps-asde6 |
| cds411 | Douglas-fir/Oregon boxleaf | psme/pamy |
| cds412 | Douglas-fir/Oregon boxleaf/pinegrass | psme/pamy/caru |
| cds632 | Douglas-fir/mountain snowberry (Okanogan and Colville) | psme/syor2 |
| cds636 | Douglas-fir/common snowberry (Wenatchee) | psme/syal |
| cds637 | Douglas-fir/common snowberry/bluebunch wheatgrass | psme/syal/pssps |
| cds638 | Douglas-fir/common snowberry/pinegrass | psme/syal/caru |
| cds639 | Douglas-fir/shinyleaf spirea/pinegrass | psme/spbel/caru |
| cds640 | Douglas-fir/shinyleaf spirea | psme/spbel |
| cds653 | Douglas-fir/kinnikinnick (Wenatchee) | psme/aruv |
| cds654 | Douglas-fir/kinnikinnik-antelope bitterbrush | psme/aruv-putr2 |
| cds655 | Douglas-fir/kinnikinnick/pinegrass | psme/aruv/caru |
| cds673 | Douglas-fir/antelope bitterbrush | psme/putr2 |
| cds674 | Douglas-fir/antelope bitterbrush/bluebunch wheatgrass | psme/putr2/pssps |
| cds675 | Douglas-fir/antelope bitterbrush/pinegrass | psme/putr2/caru |
| cds831 | Douglas-fir/dwarf bilberry | psme/vaca13 |
| cds832 | Douglas-fir/velvetleaf huckleberry (Wenatchee) | psme/vamy |
| cds833 | Douglas-fir/velvetleaf huckleberry/pinegrass | psme/vamy/caru |
| cef222 | Subalpine fir/longtube twinflower (Wenatchee) | abla/libol2 |
| cef422 | Subalpine fir/Carolina bugbane | abla/trca |
| cef424 | Subalpine fir/broadleaf arnica-Jacob’s ladder | abla/arla8-popu3 |
| ceg121 | Subalpine fir/Hitchcock’s smooth woodrush (Wenatchee) | abla/luglh |
| ceg311 | Subalpine fir/pinegrass | abla/caru |
| cem211 | Engelmann spruce/horsetail | pien/equis |
| ces112 | Subalpine fir/Oregon boxleaf/pinegrass | abla/pamy/caru |
| ces113 | Subalpine fir/Oregon boxleaf (Wenatchee) | abla/pamy |
| ces211 | Subalpine fir/Cascade azalea | abla/rhal2 |
| ces213 | Subalpine fir/Cascade azalea/Hitchcock’s smooth woodrush | abla/rhal2/luglh |
| ces341 | Subalpine fir/Cascade bilberry | abla/vade |
| ces342 | Subalpine fir/thinleaf huckleberry (Wenatchee) | abla/vame |
| ces413 | Subalpine fir/grouse whortleberry/pinegrass | abla/vasc/caru |
| ces422 | Subalpine fir/dwarf bilberry | abla/vaca13 |
| ces423 | Subalpine fir/roughfruit berry | abla/rula2 |
| ces424 | Subalpine fir/grouse whortleberry/broadleaf arnica | abla/vasc/arla8 |
| ces425 | Subalpine fir/grouse whortleberry/Hitchcock’s smooth woodrush | abla/vasc/luglh |
| ces426 | Subalpine fir/grouse whortleberry (Wenatchee) | abla/vasc |
| cff162 | Pacific silver fir/oneleaf foamflower | abam/titru |
| cff254 | Pacific silver fir/sweet after death (Wenatchee) | abam/actr |
| cfs232 | Pacific silver fir/oval-leaf blueberry (Wenatchee) | abam/vaov |
| cfs233 | Pacific silver fir/thinleaf huckleberry/bride’s bonnet | abam/vame/clun2 |
| cfs234 | Pacific silver fir/thinleaf huckleberry-sidebells wintergreen | abam/vame-orse |
| cfs351 | Pacific silver fir/devilsclub | abam/opho |
| cfs413 | Pacific silver fir/roughfruit berry (Wenatchee) | abam/rula2 |
| cfs542 | Pacific silver fir/rusty menziesia (Wenatchee) | abam/mefe |
| cfs556 | Pacific silver fir/Cascade azalea-thinleaf huckleberry (Wenatchee) | abam/rhal2-vame |
| cfs621 | Pacific silver fir/vine maple | abam/acci |
| chf223 | Western hemlock/sweet after death (Wenatchee) | tshe/actr |
| chf313 | Western hemlock/British Columbia wildginger | tshe/asca2 |
| chm121 | Western hemlock/American skunkcabbage | tshe/lyam3 |
| chs142 | Western hemlock/Cascade barberry (Wenatchee) | tshe/mane2 |
| chs143 | Western hemlock/Oregon boxleaf/bride’s bonnet | tshe/pamy/clun2 |
| chs144 | Western hemlock/pinemat manzanita | tshe/arne |
| chs225 | Western hamlock/vine maple/sweet after death (Wenatchee) | tshe/acci/actr |
| chs226 | Western hemlock/vine maple/British Columbia wildginger | tshe/acci/asca2 |
| chs227 | Western hemlock/vine maple/bride’s bonnet | tshe/acci/clun2 |
| cmf131 | Mountain hemlock/common beargrass-whortleberry | tsme/xete/vamy2 |
| cmg221 | Mountain hemlock/Hitchcock’s smooth woodrush | tsme/lughl |
| cms121 | Mountain hemlock/grouse whortleberry/Hitchcock’s smooth woodrush | tsme/vasc/lughl |
| cms122 | Mountain hemlock/roughfruit berry | tsme/rula2 |
| cms256 | Mountain hemlock/rusty menziesia-oval-leaf blueberry | tsme/mefe-vaov |
| cms257 | Mountain hemlock/rusty menziesia-thinleaf huckleberry | tsme/mefe-vame |
| cms258 | Mountain hemlock/oval-leaf blueberry (Wenatchee) | tsme/vaov |
| cms259 | Mountain hemlock/thinleaf huckleberry (Wenatchee) | tsme/vame |
| cms354 | Mountain hemlock/pink mountainheath-Cascade bilberry | tsme/phem-vade |
| cms355 | Mountain hemlock/Cascade azalea-oval-leaf blueberry | tsme/rhal2-vaov |
| cms356 | Mountain hemlock/Cascade azalea-thinleaf huckleberry | tsme/rhal2-vame |
| cpg141 | Ponderosa pine/bluebunch wheatgrass (Wenatchee) | pipo/pssps |
| cpg142 | Ponderosa pine/bluebunch wheatgrass-Indian’s dream | pipo/pssps-asde6 |
| cpg231 | Ponderosa pine/pinegrass-bluebunch wheatgrass | pipo/caru-pssps |
| cps241 | Ponderosa pine/antelope bitterbrush/bluebunch wheatgrass | pipo/putr2/pssps |
| cwf444 | Grand fir/heartleaf arnica | abgr/arco9 |
| cwf524 | Grand fir/sweet after death (Wenatchee) | abgr/actr |
| cwg124 | Grand fir/pinegrass (Wenatchee) | abgr/caru |
| cwg125 | Grand fir/pinegrass-lupine | abgr/caru-lupin |
| cws225 | Grand fir/Cascade barberry | abgr/mane2 |
| cws226 | Grand fir/Cascade barberry/pinegrass (Wenatchee) | abgr/mane2/caru |
| cws335 | Grand fir/shinyleaf spirea/western brackenfern | abgr/spbel/ptaq |
| cws336 | Grand fir/common snowberry/pinegrass | abgr/syal/caru |
| cws337 | Grand fir/mountain snowberry | abgr/syor |
| cws338 | Grand fir/pinemat manzanita | abgr/arne |
| cws551 | Grand fir/vine maple (Wenatchee) | abgr/acci |
| cws552 | Grand fir/vine maple-pipsissewa | abgr/acci-chum |
| cws553 | Grand fir/vine maple/bride’s bonnet | abgr/acci/clun2 |
| cws554 | Grand fir/oceanspray/pinegrass | abgr/hodi/caru |
| hog111 | Oregon white oak/bluebunch wheatgrass | quga4/pssps |
| hog211 | Oregon white oak/pinegrass-Geyer’s sedge | quga4/caru-cage2 |
| hos311 | Oregon white oak/beaked hazelnut-common snowberry | quga4/coco6-syal |

Table 37: Reference Code 627

| **PV\_CODE** | **COMMON\_NAME** | **SCIENTIFIC\_NAME** |
| --- | --- | --- |
| ccf221 | Western red cedar/bride’s bonnet | thpl/clun2 |
| ccf222 | Western red cedar/wild sarsaparilla | thpl/arnu2 |
| ccs211 | Western red cedar/devilsclub | thpl/opho |
| ccs311 | Western red cedar/thinleaf huckleberry | thpl/vame |
| cdg123 | Douglas-fir/kinnikinnik | psme/aruv |
| cdg131 | Douglas-fir/pinegrass | psme/caru |
| cdg311 | Ponderosa pine-Douglas-fir/bluebunch wheatgrass | pipo-psme/pssps |
| cds632 | Douglas-fir/mountain snowberry | psme/syor2 |
| cds633 | Douglas-fir/common snowberry | psme/syal |
| cds715 | Douglas-fir/mallow ninebark | psme/phma5 |
| cds716 | Douglas-fir/mallow ninebark/longtube twinflower | psme/phma5/libol2 |
| cds813 | Douglas-fir/dwarf bilberry | psme/vaca13 |
| cds814 | Douglas-fir/thinleaf huckleberry | psme/vame |
| cef111 | Subalpine fir/common beargrass | abla/xete |
| cef211 | Subalpine fir/longtube twinflower | abla/libol2 |
| cef421 | Subalpine fir/bride’s bonnet | abla/clun2 |
| cef422 | Subalpine fir/Carolina bugbane | abla/trca |
| cef423 | Subalpine fir/bunchberry dogwood | abla/coca13 |
| ceg311 | Subalpine fir/pinegrass | abla/caru |
| cem211 | Engelmann spruce/field horsetail | pien/eqar |
| ces210 | Subalpine fir/Cascade azalea/common beargrass | abla/rhal2/xete |
| ces211 | Subalpine fir/Cascade azalea | abla/rhal2 |
| ces313 | Subalpine fir/thinleaf huckleberry | abla/vame |
| ces412 | Subalpine fir/grouse whortleberry | abla/vasc |
| ces422 | Subalpine fir/dwarf bilberry | abla/vaca13 |
| chf311 | Western hemlock/bride’s bonnet | tshe/clun2 |
| chf312 | Western hemlock/wild sarsaparilla | tshe/arnu2 |
| chf422 | Western hemlock/Pacific oakfern | tshe/gydi2 |
| chf521 | Western hemlock/common beargrass | tshe/xete |
| chs411 | Western hemlock/strawberryloaf raspberry | tshe/rupe |
| chs711 | Western hemlock/rusty menziesia | tshe/mefe |
| cls521 | Lodgepole pine/russet buffaloberry | pico/shca |
| cws214 | Grand fir/thinleaf huckleberry/bride’s bonnet (Colville) | abgr/vame/clun2 |
| cws421 | Grand fir/mallow ninebark | abgr/phma5 |
| cws422 | Grand fir/Douglas maple/bride’s bonnet | abgr/acgld4/clun2 |
| cws821 | Grand fir/dwarf bilberry | abgr/vaca13 |
| hqg111 | Quaking aspen/pinegrass | potr5/caru |
| hqg211 | Quaking aspen/common snowberry | potr5/syal |

Table 38: Reference Code 628

| **PV\_CODE** | **COMMON\_NAME** | **SCIENTIFIC\_NAME** |
| --- | --- | --- |
| cdg112 | Douglas-fir/pinegrass | psme/caru |
| cdg331 | Douglas-fir/bluebunch wheatgrass | psme/pssps |
| cdg511 | Douglas-fir/creeping barberry | psme/mare11 |
| cds7 | Douglas-fir/mallow ninebark | psme/phma5 |
| ces311 | Subalpine fir/thinleaf huckleberry | abla/vame |
| ces411 | Subalpine fir/grouse huckleberry | abla/vasc |
| cls415 | Lodgepole pine/grouse whortleberry | pico/vasc |
| cls416 | Lodgepole pine/pinegrass | pico/caru |
| cls515 | Lodgepole pine/thinleaf huckleberry | pico/came |
| gsxx | Grasslands (alpine xeric) | 2gram |
| hq | Quaking aspen | potr5 |
| ms20 | Meadow, subalpine | n/a |
| ms2111 | Black alpine sedge | cani2 |
| na | Avalanche paths, sparsely to non-vegetated | n/a |
| nca1 | Whitebark pine-subalpine fir | pial-abla |
| nra0 | Rocky land in alpine or subalpine locations | n/a |
| sd21 | Big sagebrush | artr2 |
| sm21 | Sitka alder | alvis |
| ss1911 | Pink mountainheath | phem |

Table 39: Reference Code 631

| **PV\_CODE** | **COMMON\_NAME** | **SCIENTIFIC\_NAME** |
| --- | --- | --- |
| ccf222 | Western red cedar/wild sarsparilla | thpl/arnu2 |
| ccf231 | Western red cedar/twinflower | thpl/libo3 |
| ccr232 | Western red cedar/oakfern | thpl/gydr |
| cdg122 | Douglas-fir/pinegrass-kinnikinnick | psme/caru-aruv |
| cdg131 | Douglas-fir/pinegrass | psme/caru |
| cdg332 | Douglas-fir/Idaho fescue | psme/feid |
| cds611 | Douglas-fir/oceanspray | psme/hodi |
| cds627 | Douglas-fir/common snowberry | psme/syal |
| cds635 | Douglas-fir/white spirea | psme/spbe2 |
| cds715 | Douglas-fir/mallow ninebark-heartleaf arnica | psme/phma5-arco9 |
| cds716 | Douglas-fir/mallow ninebark-Oregon boxleaf | psme/phma5-pamy |
| cef211 | Subalpine fir/twinflower | abla/libo3 |
| cef441 | Subalpine fir/oakfern | abla/gyrd |
| ceg311 | Subalpine fir/pinegrass | abla/caru |
| ces111 | Subalpine fir/Oregon boxleaf | abla/pamy |
| ces151 | Subalpine fir-whitebark pine/bearberry | abla-pail/aruv |
| ces211 | Subalpine fir/Cascade azalea | abla/Rhal2 |
| ces312 | Subalpine fir/blueberry | abla/vacci |
| ces611 | Subalpine fir/pink mountain heath | abla/phem |
| cpg121 | Ponderosa pine/bluebunch wheatgrass | pipo/pssps |
| cpg122 | Ponderosa pine/Idaho fescue | pipo/feid |
| cps227 | Ponderosa pine/antelope bitterbrush-Indian ricegrass | pipo/putr2-achy |
| cps228 | Ponderosa pine/antelope bitterbrush-bluebunch wheatgrass | pipo/putr2-pssps |
| cps229 | Ponderosa pine/antelope bitterbrush-Idaho fescue | pipo/putr2-feid |
| cps521 | Ponderosa pine/common snowberry | pipo/syal |
| cwc812 | Grand fir/twinflower/Pacific yew | abgr/libo3/tabr2 |
| cwf313 | Grand fir/twinflower | abgr/libo3 |
| cwf551 | White fir/drops-of-gold | abgr/prhoh |

Table 40: Reference Code 632

| **PV\_CODE** | **COMMON\_NAME** | **SCIENTIFIC\_NAME** |
| --- | --- | --- |
| cag1 | Park | n/a |
| ccf121 | Western red cedar/common ladyfern | thpl/atfi |
| ccs211 | Western red cedar/devilsclub | thpl/opho |
| ccs321 | Western red cedar/Oregon boxleaf | thpl/pamy |
| cdg121 | Douglas-fir/pinegrass | psme/caru |
| cdg122 | Douglas-fir/pinegrass-kinnikinnick | psme/caru-aruv |
| cds627 | Douglas-fir/mallow ninebark | psme/phma5 |
| cef111 | Subalpine fir/common beargrass | abla/xete |
| cef121 | Subalpine fir/Oregon boxleaf | abla/pamy |
| ces231 | Subalpine fir/rusty menziesia | abla/mefe |
| ces421 | Subalpine fir/grouse whortleberry | abla/vasc |
| cmf121 | Mountain hemlock/common beargrass | tsme/xete |
| cms22o | Mountain hemlock/rusty menziesia | tsme/mefe |
| cpg121 | Ponderosa pine/bluebunch wheatgrass | pipo/pssps |
| cpg122 | Ponderosa pine/Idaho fescue | pipo/feid |
| cpg123 | Ponderosa pine/western needlegrass | pipo/acoco |
| cps227 | Ponderosa pine/antelope bitterbrush | pipo/putr2 |
| cps521 | Ponderosa pine/common snowberry | pipo/syal |
| cps721 | Ponderosa pine/mallow ninebark | pipo/phma5 |
| cws722 | Grand fir/Oregon boxleaf | abgr/pamy |
| hcs1 | Black cottonwood | pobat |
| nca1 | Whitebark pine-subalpine fir | pial-abla |
| sm8111 | Sitka alder (scrub) | alvis |

Table 41: Reference Code 634

| **PV\_CODE** | **COMMON\_NAME** | **SCIENTIFIC\_NAME** |
| --- | --- | --- |
| cls811 | Lodgepole pine/salal-California huckleberry/sedge (deflation plain) | pico/gash-vaov2/carex |
| cls812 | Lodgepole pine/rhododendron/California huckleberry (floodplain, dune) | pico/rhodo/vaov2 |
| cls821 | Lodgepole pine/rhododendron/California huckleberry (stabilized dune) | pico/rhodo/vaov2 |
| cls822 | Lodgepole pine/rhododendron/California huckleberry (eroding dune) | pico/rhodo/vaov2 |
| cls823 | Lodgepole pine/rhododendron/California huckleberry (dune slipface) | pico/rhodo/vaov2 |
| cls931 | Lodgepole pine/kinnikinnick-hairy manzanita (rolling dune, open) | pico/aruv-arco3 |
| css411 | Sitka spruce-Douglas-fir/rhododendron-California huckleberry (stabilized dune) | pisi-psme/rhodo-vaov2 |
| css412 | Sitka sprice-lodgepole pine-western hemlock/rhododendron (flood plain) | pisi-pico-tshe/rhodo |
| css421 | Sitka spruce-Douglas-fir/rhododendron-California huckleberry (sandy, steep) | pisi-psme/rhodo-vaov2 |
| css422 | Sitka spruce-Douglas-fir/rhododendron-California huckleberry (sandy, gentle) | pisi-psme/rhodo-vaov2 |
| gr8111 | Beachgrass (foredune) | ammop |
| gr8211 | Beachgrass/lupine/bluegrass (hummocks, occasionally wet, dense) | ammop/lupin/poa |
| gr8212 | Beachgrass/lupine (hummocks, occasionally wet, unstable, open) | ammop/lupin |
| gr8213 | Beachgrass (dune slip face, stabilized) | ammop |
| mmb8 | Slough sedge-rush-red fescue (deflation plain potholes/slough) | caob3-juncu-feru2 |
| mt8111 | Cattail-bulrush/waterlily-waterweed | typha-scirp/nymph-elode |
| mw8111 | Slough sedge/American skunk cabbage-red currant (valley fill) | caob3/lyam3-ritr |
| mw8112 | Slough sedge/waterlily-pondweed-cattail | caob3/nymph-potam-typha |
| nsn111 | Pacific coast beach | n/a |
| nsn211 | Transverse ridge, occasionally wet, winter stable | n/a |
| nsn212 | Transverse ridge, dry, moving sand | n/a |
| nsn311 | Oblique ridge, fore slope, moving sand | n/a |
| nsn312 | Oblique ridge, precipitation ridge, active sand | n/a |
| nsn312 | Oblique ridge, precipitation ridge, active, threat, veget | n/a |
| sw8111 | Shrub (deflation plain, high water) | 2shrub |
| sw8112 | Salal-oval-leaf blueberry-willow (deflation plain, high water) | gash-vaov-salix |
| we1311 | Bar built, well mixed saline, active flood plain | n/a |

Table 42: Reference Code 635

| **PV\_CODE** | **COMMON\_NAME** | **SCIENTIFIC\_NAME** |
| --- | --- | --- |
| CDC511 | Ponderosa pine-Douglas-fir/antelope bitterbrush-snowbrush ceanothus | pipo-psme/putr2-ceve |
| cdc512 | Ponderosa pine-Douglas-fir/snowberry | pipo-psme/symph |
| cff141 | Pacific silver fir/bride’s bonnet | abam/clun2 |
| cff321 | Pacific silver fir/common beargrass | abam/xete |
| chf531 | Western hemlock/common beargrass | tshe/xete |
| chs211 | Western hemlock/vine maple | tshe/acci |
| chs329 | Western hemlock/Pacific rhododendron | tshe/rhma3 |
| cmc311 | Mountain hemlock-lodgepole pine/pinemat manzanita | tsme-pico/arne |
| cmc312 | Mountain hemlock-lodgepole pine/grouse whortleberry | tsme-pico/vasc |
| cmc313 | Mountain hemlock-lodgepole pine-subalpine fir | tsme-pico-abla |
| cmf111 | Mountain hemlock/common beargrass | tsme/xete |
| cpc611 | Ponderosa pine-Douglas-fir/old man’s whiskers-mule-ears (Mutton) | pipo-psme/getr-wyam |
| cpc612 | Ponderosa pine-Douglas-fir/antelope bitterbrush (Mutton) | pipo-psme/putr2 |
| cpc613 | Ponderosa pine-Douglas-fir/Greenleaf manzanita-snowbrush ceanothus (Mutton) | pipo-psme/arpa6-ceve |
| cpc614 | Ponderosa pine-Douglas-fir/snowberry (Mutton) | pipo-psme/symph |
| cpf121 | Ponderosa pine/old man’s whiskers-mule-ears | pipo/getr-wyam |
| cpf131 | Ponderosa pine/meadow | pipo/meadow |
| cps227 | Ponderosa pine/antelope bitterbrush | pipo/putr2 |
| cps228 | Ponderosa pine/antelope bitterbrush-greenleaf manzanita | pipo/putr2-arpa6 |
| cws121 | Mixed conifer/snowbrush ceanothus | 2te/ceve |
| cws213 | Grand fir/thinleaf huckleberry | abgr/vame |
| cws333 | Grand fir/snowberry | abgr/symph |
| cws334 | Mixed conifer/snowberry/Geyer’s sedge | 2te/symph/cage2 |
| cws538 | Grand fir/vine maple | abgr/acci |
| cws711 | Grand fir/Oregon boxleaf | abgr/pamy |
| cws712 | Grand fir-lodgepole pine/Oregon boxleaf/pinegrass | abgr-pico/pamy/caru |
| dcc512 | Mixed conifer/snowberry | 2te/symph |

Table 43: Reference Code 636

| **PV\_CODE** | **COMMON\_NAME** | **SCIENTIFIC\_NAME** |
| --- | --- | --- |
| cds652 | Douglas-fir/kinnikinnick | psme/aruv |
| cfc412 | Alaska cedar/oval-leaf blueberry | chno/vaov |
| cff161 | Pacific silver fir/oneleaf foamflower | abam/titru |
| cff312 | Pacific silver fir/common beargrass | abam/xete |
| cfs151 | Pacific silver fir/Cascade barberry | abam/mane2 |
| cfs152 | Pacific silver fir/salal | abam/gash |
| cfs216 | Pacific silver fir/oval-leaf blueberry-Cascade barberry | abam/vaov-mane2 |
| cfs241 | Pacific silver fir/oval-leaf blueberry | abam/vaov |
| cfs242 | Pacific silver fir/oval-leaf blueberry-strawberryleaf raspberry | abam/vaov-rupe |
| cfs321 | Pacific silver fir/devilsclub | abam/opho |
| cfs411 | Pacific silver fir/roughfruit berry | abam/rula2 |
| cfs541 | Pacific silver fir/rusty menziesia | abam/mefe |
| cfs550 | Pacific silver fir/Cascade azalea | abam/rhal2 |
| chf125 | Western hemlock/western swordfern | tshe/pomu |
| chf221 | Western hemlock/sweet after death | tshe/actr |
| chs128 | Western hemlock/salal | tshe/gash |
| chs514 | Western hemlock/devilsclub | tshe/opho |

Table 44: Reference Code 638

| **PV\_CODE** | **COMMON\_NAME** | **SCIENTIFIC\_NAME** |
| --- | --- | --- |
| ccf221 | Western redcedar/bride’s bonnet | thpl/clun2 |
| cdg131 | Douglas-fir/pinegrass | psme/caru |
| cds627 | Douglas-fir/common snowberry | psme/syal |
| cds715 | Douglas-fir/mallow ninebark | psme/phma5 |
| chf311 | Western hemlock/bride’s bonnet | tshe/clun2 |
| cpg121 | Ponderosa pine/bluebunch wheatgrass | pipo/pssps |
| cpg122 | Ponderosa pine/Idaho fescue | pipo/feid |
| cpg151 | Ponderosa pine/needle-and-thread | pipo/hecoc8 |
| cps227 | Ponderosa pine/antelope bitterbrush | pipo/putr2 |
| cps521 | Ponderosa pine/common snowberry | pipo/syal |
| cwf313 | Grand fir/twinflower | abgr/libo3 |

Table 45: Reference Code 639

| **PV\_CODE** | **COMMON\_NAME** | **SCIENTIFIC\_NAME** |
| --- | --- | --- |
| ab | Buildings, structures, roads | n/a |
| aba1 | Heliport | n/a |
| aba2 | Runway, landing strip | n/a |
| aba9 | Aircraft facilities | n/a |
| abc9 | Campground, developed | n/a |
| abp9 | Parking area | n/a |
| abr8 | Road, boat launch area | n/a |
| abs1 | Rock and gravel storage area | n/a |
| abs9 | Open storage area | n/a |
| ac | Cultivated land | n/a |
| ad | Dump for trash, garbage, etc. | n/a |
| adg9 | Garbage dump | n/a |
| adl9 | Land fill, soil, gravel, and/or rock dump (sanitary) | n/a |
| adt9 | Trash dump, refuse dump | n/a |
| ag | Grassland, permanent pasture | n/a |
| ao | Orchards | n/a |
| ar | Recreation areas, parks, play areas, golf courses | n/a |
| ax | Administrative or agricultural | n/a |
| ca | Subalpine fir-mountain hemlock-whitebark pine (open parks) | abla-tsme-pial |
| cac0 | Subalpine fir-mountain hemlock-whitebark pine (open parks) | abla-tsme-pial |
| cac1 | Subalpine larch (Okanogan) | laly |
| cac111 | Subalpine larch/western moss heather-partridgefoot | laly/came7-lupe |
| cac112 | Subalpine larch/eightpetal mountain avens | laly/droc |
| cac113 | Subalpine larch/common juniper | laly/juco6 |
| cac114 | Subalpine larch/Cascade bilberry-western moss heather | laly/vade-came7 |
| cac115 | Subalpine larch/grouse whortleberry/Hitchcock’s smooth woodrush | laly/vasc/luglh |
| cac2 | Alaska cedar | chno |
| cac3 | Lodgepole pine dominant | pico |
| cac4 | Whitebark pine dominant | pial |
| cac5 | Subalpine fir dominant | abla |
| cac6 | Mountain hemlock dominant | tsme |
| caf0 | Subalpine fir-hemlock-whitebark pine/form | abla-tsuga-pial/2forb |
| caf1 | Common beargrass (subalpine park) | xete |
| caf2 | Poke knotweed (subalpine park) | poph |
| caf211 | Mountain hemlock-subalpine fir/Davis’ knotweed | tsme-abla/poda |
| caf311 | Mountain hemlock-subalpine fir/Cascade aster | tsme-abla/eulel2 |
| caf321 | Whitebark pine/eightpetal mountain-avens | pial/droc |
| cag0 | Subalpine fir-hemlock-whitebark pine/grass (open parks) | abla-tsuga-pial/2gram |
| cag1 | Sedge (subalpine park) | carex |
| cag111 | Subalpine fir/Geyer’s sedge | abla/cage2 |
| cag112 | Whitebark pine/pinegrass | pial/caru |
| cag2 | Greenleaf fescue (subalpine park) | fevi |
| cag211 | Mountain hemlock-subalpine fir/greenleaf fescue | tsme-abla/fevi |
| cag221 | Whitebark pine/Greenleaf fescue | pial/fevi |
| cag3 | Woodrush (subalpine park) | luzul |
| cag311 | Mountain hemlock/Hitchcock’s smooth woodrush | tsme/luglh |
| cag312 | Mountain hemlock-whitebark pine/Hitchcock’s smooth woodrush | tsme-pial/luglh |
| cag4 | Western needlegrass (subalpine park) | acoco |
| carr | Subalpine fir-whitebark pine (rocky) | abla-pial |
| cars | Subalpine fir-whitebark pine (steep, rocky) | abla-pial |
| carx | Subalpine fir-whitebark pine (rocky, parks, rough, steep) | abla-pial |
| cas0 | Subalpine fir-mountain hemlock-whitebark pine/shrub (open park) | abla-tsme-pial/2shrub |
| cas1 | Sagebrush (subalpine park) | artem |
| cas2 | Mountain heather-heath (subalpine park) | cassi3-erica |
| cas211 | Mountain heather/pink mountainheath-Cascade bilberry | tsme/phem-vade |
| cas221 | Whitebark pine/western moss heather/partridgefoot | pial/came7/lupe |
| cas3 | Grouse whortleberry (subalpine park) | vasc |
| cas311 | Whitebark pine/grouse whortleberry/Hitchcock’s smooth woodrush | pial/vasc/juco6 |
| cas4 | Common juniper-pinemat manzanita (subalpine park) | juco6/arne |
| cas411 | Mountain hemlock-subalpine fir/common juniper | tsme-abla/juco6 |
| cas421 | Whitebark pine/common juniper | pial/juco6 |
| caxx | Mountain hemlock (subalpine parks) | tsme |
| cc | Western red cedar | thpl |
| ccc0 | Western red cedar-important conifers | thpl-2te |
| ccc1 | Western red cedar-Pacific yew | thpl-tabr2 |
| ccc2 | Western red cedar-western hemlock | thpl-tshe |
| ccf0 | Western red cedar/forb | thpl/2forb |
| ccf1 | Western red cedar/common ladyfern | thpl/atfi |
| ccf110 | Western red cedar/common ladyfern-coastal hedgenettle | thpl/atfi-stchc3 |
| ccf121 | Western red cedar/common ladyfern | thpl/atfi |
| ccf211 | Western red cedar/Pacific rhododendron/western twinflower | thpl/rhma/libol |
| ccf212 | Western red cedar/sweet after death | thpl/actr |
| ccf221 | Western red cedar/whipplevine/threeleaf anemone | thpl/whmo/ande |
| ccf222 | Western red cedar/wild sarsaparilla | thpl/arnu2 |
| ccfa | Western red cedar/bride’s bonnet-low forb | thpl/clun2-2forb |
| ccm0 | Western red cedar (wetlands, moist to wet soil) | thpl |
| ccm1 | Western red cedar/American skunk cabbage (wetlands) | thpl/lyam3 |
| ccm2 | Western red cedar/sedge (wedland) | thpl/carex |
| ccm3 | Western red cedar-lodgepole pine/Labrador tea | thpl-pico/ledum |
| ccs0 | Western red cedar/shrub | thpl/2shrub |
| ccs1 | Western red cedar/salmonberry-thimbleberry | thpl/rusp-rupa |
| ccs110 | Western red cedar/salmonberry-woodsorrel | thpl/rusp-oxali |
| ccs2 | Western red cedar/devilsclub | thpl/opho |
| ccs211 | Western red cedar/devilsclub | thpl/opho |
| ccs221 | Western red cedar-grand fir/devilsclub | thpl-abgr/opho |
| ccs3 | Western red cedar/Oregon boxleaf-thinleaf huckleberry | thpl/pamy-vame |
| ccs311 | Western red cedar/thinleaf huckleberry | thpl/vame |
| ccs321 | Western red cedar/Oregon boxleaf | thpl/pamy |
| ccs4 | Westerm red cedar/Sitka alder | thpl/alvis |
| ccs5 | Western red cedar/salal-creeping barberry | thpl/gash-mare11 |
| cd | Douglas-fir | psme |
| cdc0 | Douglas-fir with important conifers | psme-2te |
| cdc1 | Douglas-fir/Port Orford cedar/Pacific yew | psme-chla/tabr2 |
| cdc2 | Douglas-fir-sugar pine (S.W. Oregon) | psme-pila |
| cdc3 | Douglas-fir-incense cedar (S.W. Oregon, Douglas-fir infertile) | psme-cade27 |
| cdc4 | Douglas-fir-white fir-grand fir | psme-abco-abgr |
| cdc412 | Douglas-fir-white fir-ponderosa pine | psme-abco-pipo |
| cdc431 | Douglas fir-white fir/creambush oceanspray | psme-abco/hodi |
| cdc432 | Douglas-fir-white fir/dwarf Oregon grape | psme-abco/bene |
| cdc5 | Douglas-fir-ponderosa pine-Jeffrey pine (S. Oregon) | psme-pipo-pije |
| cdc511 | Ponderosa pine-Douglas-fir/antelope bitterbrush-snowbrush ceanothus | pipo-psme/putr2-ceve |
| cdc512 | Ponderosa pine-Douglas-fir/snowberry | pipo-psme/symph |
| cdc6 | Douglas-fir-redwood | psme-sese3 |
| cdc7 | Douglas-fir-western hemlock | psme-tshe |
| cdc711 | Douglas-fir-western hemlock/Cascade barberry | psme-tshe/mane2 |
| cdc712 | Douglas-fir-western hemlock/Pacific rhododendron | psme-tshe/rhma3 |
| cdc713 | Douglas-fir-western hemlock/salal | psme-tshe/gash |
| cdf0 | Douglas-fir/forb | psme/2forb |
| cdf1 | Douglas-fir/common beargrass | psme/xete |
| cdf2 | Douglas-fir/twinflower | psme/libo3 |
| cdf211 | Douglas-fir/twinflower | psme/libo3 |
| cdf3 | Douglas-fir/arnica-low forbs | psme/arnic-2forb |
| cdf311 | Douglas-fir/heartleaf arnica | psme/arco9 |
| cdf312 | Douglas-fir/sweetroot | psme/osmor |
| cdf4 | Douglas-fir/forb (medium-tall) | psme/2forb |
| cdf411 | Douglas-fir/bush penstemon | psme/pefr3 |
| cdf911 | Douglas-fir/depauperate | psme/depauperate |
| cdg0 | Douglas-fir/grass | psme/2gram |
| cdg1 | Douglas-fir/pinegrass-Geyer’s sedge | psme/caru-cage2 |
| cdg111 | Douglas-fir/Geyer’s sedge (Blue Mountains) | psme/cage2 |
| cdg112 | Douglas-fir/pinegrass (Blue Mountains) | psme/caru |
| cdg113 | Douglas-fir/pinegrass (Idaho) | psme/caru |
| cdg121 | Douglas-fir/pinegrass | psme/caru |
| cdg122 | Douglas-fir/pinegrass-kinnikinnick | psme/caru-aruv |
| cdg123 | Douglas-fir/kinnikinnick (Okanogan) | psme/aruv |
| cdg131 | Douglas-fir/pinegrass (Oaknogan and colville) | psme/caru |
| cdg132 | Douglas-fir/Geyer’s sedge (Wenatchee) | psme/cage2 |
| cdg134 | Douglas-fir/pinegrass-bluebunch wheatgrass | psme/caru-pssps |
| cdc141 | Douglas-fir/Geyer’s sedge | psme/cage2 |
| cdc142 | Douglas-fir/Geyer’s sedge (Idaho) | psme/cage2 |
| cdg2 | Douglas-fir/blue wildrye | psme/elgl |
| cdg3 | Douglas-fir/bunchgrass | psme/2gram |
| cdg311 | Ponderosa pine-Douglas-fir/bluebunch wheatgrass | pipo-psme/pssps |
| cdg321 | Douglas-fir/western fescue | psme/feoc |
| cdg322 | Douglas-fir/bluebunch wheatgrass (Wenatchee) | psme/pssps |
| cdg323 | Douglas-fir/bluebunch wheatgrass-Indian’s dream | psme/pssps-asde6 |
| cdg331 | Douglas-fir/bluebunch wheatgrass | psme/pssps |
| cdg332 | Douglas-fir/Idaho fescue | psme/feid |
| cdg8 | Douglas-fir/subalpine sedge | psme/carex |
| cdh0 | Douglas-fir-important hardwoods | psme-2td |
| cdh1 | Douglas-fir/tanoak | psme/lide3 |
| cdh111 | Douglas-fir-tanoal/salal | psme-lide2/gash |
| cdh112 | Douglas-fir/Pacific rhododendron | psme/rhma |
| cdh121 | Douglas-fir-tanoak-sugar pine | psme-lide3-pila |
| cdh131 | Douglas-fir-tanoak | psme-lide3 |
| cdh141 | Douglas-fir-tanoak-canyon live oak | psme-lide3-quch |
| cdh142 | Douglas-fir-tanoak/poison oak | psme-lide3/rhdi |
| cdh2 | Douglas-fir/Pacific mandrone | psme/arme |
| cdh3 | Douglas-fir/Oregon white oak | psme/quga4 |
| cdh311 | Douglas-fir-Oregon white oak/poison oak | psme-quga4/rhde |
| cdh4 | Douglas-fir/bigleaf maple | psme/acma3 |
| cdh5 | Douglas-fir/chinquapin-canyon live oak | psme/chrys15-quch2 |
| cdh6 | Douglas-fir/California laurel-California buckthorn | psme/umca-frca12 |
| cdrr | Douglas-fir (rocky) | psme |
| cdrs | Douglas-fir (steep, with little ground vegetation) | psme |
| cdrx | Douglas-fir (rocky, steep with little ground vegetation) | psme |
| cds0 | Douglas-fir/kinnikinnick | psme/aruv |
| cds1 | Douglas-fir/canyon live oak-Pacific poison oak-rose | psme/quch2-todi-rosa5 |
| cds111 | Douglas-fir/poison oak-Piper’s Oregon grape | psme/rhdi-bepi |
| cds112 | Douglas-fir/poison oak | psme/rhdi |
| cds151 | Douglas-fir/oceanspray | psme/hodi |
| cds2 | Douglas-fir/oceanspray-vine maple | psme/hodi-acci |
| cds211 | Douglas-fir/oceanspray-Cascade barberry | psme/Hodi-mane2 |
| cds212 | Douglas-fir/oceanspray/grass | psme/hodi/2gram |
| cds213 | Douglas-fir/oceanspray-common whipplea | psme/hodi-whmo |
| cds221 | Douglas-fir/oceanspray-dwarf rose | psme/hodi-rogy |
| cds231 | Douglas-fir/oceanspray/Geyer’s sedge | psme/hodi/cage2 |
| cds241 | Douglas-fir/vine maple/western fescue | psme/acci/feoc |
| cds252 | Douglas-fir/vine maple/salal | psme/acci/gash |
| cds253 | Douglas-fir/vine maple/Cascade barberry | psme/acci/mane2 |
| cds254 | Douglas-fir/vine maple/common whipplea | psme/acci/whmo |
| cds255 | Douglas-fir/salal | psme/gash |
| cds3 | Douglas-fir/rhododendron-hazelnut-dogwood | psme/rhodo-coryl-cornu |
| cds311 | Douglas-fir-western hemlock/California hazelnut (steep, shallow soil) | psme-tshe/cococ |
| cds4 | Douglas-fir/ceanothus-manzanita-Oregon boxleaf | psme/ceano-arct03-pamy |
| cds411 | Douglas-fir/Oregon boxleaf (Okanogan) | psme/pamy |
| cds412 | Douglas-fir/Oregon boxleaf/pinegrass | psme/pamy/caru |
| cds421 | Douglas-fir/buckbrush | psme/cecu |
| cds5 | Douglas-fir/salal-creeping barberry | psme/gash-mare11 |
| cds511 | Douglas-fir/creeping barberry | psme/mare11 |
| cds512 | Douglas-fir/dwarf Oregon grape/western sword-fern | psme/bene/pomu |
| cds531 | Douglas-fir/salal/western sword-fern | psme/gash/pomu |
| cds6 | Douglas-fir/spirea-common snowberry-kinnikinnick | psme/spira-syal-aruv |
| cds611 | Douglas-fir/oceanspray | psme/hodi |
| cds612 | Douglas-fir-white fir/common snowberry/twinflower | psme-abco/syal/libo3 |
| cds613 | Douglas-fir-white fir/common snowberry/forb | psme-abco/syal/2forb |
| cds614 | Douglas-fir-white fir/common snowberry/pinegrass | psme-abco/syal/caru |
| cds621 | Douglas-fir/common snowberry (same as CDS633) | psme/syal |
| cds622 | Douglas-fir/common snowberry (Wallowa) | psme/syal |
| cds623 | Douglas-fir/mountain snowberry (Wallowa) | psme/syor2 |
| cds624 | Douglas-fir/common snowberry (Blue Mountains) | psme/syal |
| cds625 | Douglas-fir/mountain snowberry (Blue Mountains) | psme/syor2 |
| cds626 | Douglas-fir/mountain snowberry (Idaho) | psme/syor2 |
| cds627 | Douglas-fir/common snowberry (Idaho) | psme/syal |
| cds628 | Douglas-fir/common snowberry (floodplain) | psme/syal |
| cds631 | Douglas-fir/kinnikinnick-antelope bitterbrush | psme/aruv-putr2 |
| cds632 | Douglas-fir/mountain snowberry (Okanogan and Colville) | psme/syor |
| cds633 | Douglas-fir/common snowberry | psme/syal |
| cds634 | Douglas-fir/white spirea | psme/spbe2 |
| cds635 | Douglas-fir/white spirea (Idaho) | psme/spbe2 |
| cds636 | Douglas-fir/common snowberry (Wenatchee) | psme/syal |
| cds637 | Douglas-fir/common snowberry/bluebunch wheatgrass | psme/syal/pssps |
| cds638 | Douglas-fir/common snowberry/pinegrass | psme/syal/caru |
| cds639 | Douglas-fir/shinyleaf spirea/pinegrass | psme/spbel/caru |
| cds640 | Douglas-fir/shinyleaf spirea | psme/spbel |
| cds641 | Douglas-fir/creeping snowberry | psme/symo |
| cds651 | Douglas-fir/kinnikinnick | psme/aruv |
| cds652 | Douglas-fir/kinnikinnick (Mt. Rainier) | psme/aruv |
| cds653 | Douglas-fir/kinnikinnick (Wenatchee) | psme/aruv |
| cds654 | Douglas-fir/kinnikinnick-antelope bitterbrush | psme/aruv-putr2 |
| cds655 | Douglas-fir/kinnikinnick/pinegrass | psme/aruv/syal |
| cds661 | Douglas-fir/common snowberry (Mt. Hood) | psme/syal |
| cds662 | Douglas-fir/pinemat manzanita | psme/arne |
| cds671 | Douglas-fir/common juniper | psme/juco6 |
| cds672 | Douglas-fir/curl-leaf mountain mahogany | psme/cele3 |
| cds673 | Douglas-fir/antelope bitterbrush | psme/putr2 |
| cds674 | Douglas-fir/antelope bitterbrush/bluebunch wheatgrass | psme/putr2/pssps |
| cds675 | Douglas-fir/antelope bitterbrush/pinegrass | psme/putr2/caru |
| cds7 | Douglas-fir/mallow ninebark | psme/phma5 |
| cds711 | Douglas-fir/mallow ninebark (Blue Mountains) | psme/phma5 |
| cds715 | Douglas-fir/mallow ninebark (Okanogan and Colville) | psme/phma5 |
| cds716 | Douglas-fir/mallow ninebark/longtube twinflower | psme/phma5/libol2 |
| cds717 | Douglas-fir/mallow ninebark (Idaho) | psme/phma5 |
| cds721 | Douglas-fir/mallow ninebark (Daubenmier) | psme/phma5 |
| cds722 | Douglas-fir/Rocky Mountain maple-mallow ninebark | psme/acgl-phma5 |
| cds723 | Douglas-fir/Rocky Mountain maple | psme/acgl |
| cds724 | Douglas-fir/Rocky Mountain maple (floodplain) | psme/acgl |
| cds8 | Douglas-fir/blueberry | psme/vacci |
| cds811 | Douglas-fir/blueberry | psme/vacci |
| cds812 | Douglas-fir/thinleaf huckleberry | psme/vame |
| cds813 | Douglas-fir/dwarf bilberry (Colville) | psme/vaca13 |
| cds814 | Douglas-fir/thinleaf huckleberry (Colville) | psme/vame |
| cds815 | Douglas-fir/dwarf bilberry | psme/vaca13 |
| cds821 | Douglas-fir/thinleaf huckleberry (Blue Mountains) | psme/vame |
| cds822 | Douglas-fir/thinleaf huckleberry | psme/vame |
| cds831 | Douglas-fir/dwarf bilberry | psme/vaca13 |
| cds832 | Douglas-fir/velvetleaf huckleberry (Wenatchee) | psme/vamy |
| cds833 | Douglas-fir/velvetleaf huckleberry/pinegrass | psme/vamy/caru |
| cdsd | Douglas-fir/shrub (dry) | psme/2shrub |
| ce | Subalpine fir-Engelmann spruce (closed forest) | abla-pien |
| cec0 | Subalpine fir-Engelmann spruce-associated conifers | abla-pien-2te |
| cec1 | Subalpine fir-lodgepole pine | abla-pico |
| cec2 | Engelmann spruce-fir | pine-abies |
| cef0 | Subalpine fir-spruce/forbs | abla-picea/2forb |
| cef1 | Subalpine fir-spruce/common beargrass | abla-picea/xete |
| cef111 | Subalpine fir/common beargrass | abla/xete |
| cef2 | Subalpine fir-spruce/twinflower | abla-picea/libo3 |
| cef211 | Subalpine fir/twinflower (Okanogan and Colville) | abla/libo3 |
| cef221 | Subalpine fir/twinflower | abla/libo3 |
| cef222 | Subalpine fir/twinflower (Wenatchee) | abla/libo3 |
| cef231 | Subalpine fir/twinflower (Idaho) | abla/libo3 |
| cef3 | Subalpine fir-spruce/tall forb | abla-picea/2forb |
| cef311 | Subalpine fir/claspleaf twistedstalk | abla/stam2 |
| cef321 | Subalpine fir/broadleaf lupine | abla/lula4 |
| cef331 | Subalpine fir/Carolina bugbane (Blue Mountains) | abla/trca |
| cef332 | Subalpine fir/common ladyfern | abla/atfi |
| cef333 | Subalpine fir/arrowleaf ragwort | abla/setr |
| cef334 | Engelmann spruce/common ladyfern | pien/atfi |
| cef335 | Engelmann spruce/arrowleaf ragwort | pien/setr |
| cef341 | Subalpine fir/Sitka valerian | abla/vasi |
| cef4 | Subalpine fir/forb (short) | abla/2forb |
| cef411 | Subalpine fir/Jacob’s-ladder | abla/popu3 |
| cef421 | Subalpine fir/bride’s bonnet (Rocky Mountains) | abla/clun2 |
| cef422 | Subalpine fir/Carolina bugbane | abla/trca |
| cef423 | Subalpine fir/bunchberry dogwood | abla/coca13 |
| cef424 | Subalpine fir/broadleaf arnica-Jacob’s-ladder | abla/arla8-popu3 |
| cef431 | Subalpine fir/hypnum moss | abla/hypap |
| cef432 | Subalpine fir/Howell’s marsh marigold | abla/caleh2 |
| cef433 | Subalpine fir/claspleaf twistedstalk (Rocky Mountains) | abla/stam2 |
| cef434 | Subalpine fir/Oregon goldthread | abla/cola3 |
| cef435 | Subalpine fir/heartleaf arnica | abla/arco9 |
| cefm | Subalpine fir/forb (mesic) | abla/2forb |
| cefw | Subalpine fir/forb (wet) | abla/2forb |
| ceg0 | Subalpine fir-spruce/grass | abla-picea/2gram |
| ceg1 | Subalpine fir-sprice/woodrush | abla-picea/luzul |
| ceg111 | Subalpine fir/Hitchcock’s smooth woodrush | abla/luglh |
| ceg121 | Subalpine fir/Hitchcock’s smooth woodruish (Wenatchee) | abla/luglh |
| ceg2 | Subalpine fir-spruce/sedge | abla-picea/carex |
| ceg211 | Subalpine fir/Geyer’s sedge | abla/cage2 |
| ceg3 | Subalpine fir-spruce/grass | abla-picea/2gram |
| ceg310 | Subalpine fir/pinegrass (Wenatchee) | abla/caru |
| ceg311 | Subalpine fir/pinegrass (Okanogan and Colville) | abla/caru |
| ceg312 | Subalpine fir/pinegrass | abla/caru |
| ceg321 | Subalpine fir/pinegrass (Idaho) | abla/caru |
| ceg322 | Subalpine fir/bluejoint | abla/caca4 |
| cem0 | Subalpine fir-Engelmann spruce (wetlands) | abla-pien |
| cem1 | Subalpine fir-Engelmann spruce/grass-sedge (wetlands) | abla-pien/2gram-carex |
| cem111 | Engelmann spruce/widefruit sedge | pien/caan15 |
| cem121 | Engelmann spruce/softleaf sedge | pien/cadi6 |
| cem2 | Subalpine fir-Engelmann spruce/forb (wetlands) | abla-pien/2forb |
| cem211 | Engelmann spruce/field horsetail | pien/eqar |
| cem212 | Engelmann spruce/field horsetail (Idaho) | pien/eqar |
| cem213 | Engelmann spruce/frangrant bedstraw | pien/gatr3 |
| cem221 | Engelmann spruce/field horsetail-twistedstalk | pien/eqar-strep3 |
| cem222 | Engelmann spruce/bride’s bonnet | pien/clun2 |
| cem3 | Subalpine fir-Engelmann spruce/shrub (short, wetlands) | abla-pien/2shrub |
| cem311 | Engelmann spruce/bog blueberry/forb | pien/vaul/2forb |
| cem312 | Engelmann spruce/bog blueberry/widefruit sedge | pien/vaul/caan15 |
| cerr | Subalpine fir (rocky with little ground vegetation) | abla |
| cers | Subalpine fir (steep with little ground vegetation) | abla |
| cerx | Subalpine fir (rocky, steep with little ground vegetation) | abla |
| ces0 | Subalpine fir-spruce/shrub | abla-picea/2shrub |
| ces1 | Subalpine fir-spruce/Oregon boxleaf | abla-picea/pamy |
| ces111 | Subalpine fir/Oregon boxleaf (Okanogan) | abla/pamy |
| ces112 | Subalpine fir/Oregon boxleaf/pinegrass | abla/pamy/caru |
| ces113 | Subalpine fir/Oregon boxleaf (Wenatchee) | abla/pamy |
| ces121 | Subalpine fir/Oregon boxleaf (Daubenmeir) | abla/pamy |
| ces131 | Subalpine fir/bride’s bonnet | abla/clun2 |
| ces141 | Subalpine fir/Douglas maple | abla/acgld4 |
| ces142 | Subalpine fir/Sitka alder | abla/alvis |
| ces143 | Subalpine fir/white spirea | abla/spbe2 |
| ces2 | Subalpine fir-spruce/rusty menziesia-rhododendron | abla-picea/mefe-rhodo |
| ces210 | Subalpine fir/Cascade azalea/common beargrass | abla/rhal2/xete |
| ces211 | Subalpine fir/Cascade azalea | abla/rhal2 |
| ces212 | Subalpine fir/Cascade azalea (Olympic) | abla/rhal2 |
| ces213 | Subalpine fir/Cascade azalea/Hitchcock’s smooth woodrush | abla/rhal2/luglh |
| ces221 | Subalpine fir/rusty menziesia | abla/mefe |
| ces231 | Subalpine fir/rusty menziesia (Idaho) | abla/mefe |
| ces232 | Subalpine fir/gooseberry currant | abla/rimo2 |
| ces3 | Subalpine fir-spruce/thinleaf huckleberry | abla-picea/vame |
| ces311 | Subalpine fir/thinleaf huckleberry (Blue Mountains) | abla/vame |
| ces312 | Subalpine fir/blueberry | abla/vacci |
| ces313 | Subalpine fir/thinleaf huckleberry (Colville) | abla/vame |
| ces314 | Subalpine fir/bride’s bonnet (Blue Mountains) | abla/clun2 |
| ces315 | Subalpine fir/thinleaf huckleberry (Wallowa) | abla/vame |
| ces321 | Subalpine fir/thinleaf huckleberry (Olympic) | abla/vame |
| ces331 | Subalpine fir/thinleaf huckleberry | abla/vame |
| ces341 | Subalpine fir/Cascade bilberry | abla/vade |
| ces342 | Subalpine fir/thinleaf huckleberry (Wenatchee) | abla/vame |
| ces4 | Subalpine fir-spruce/grouse whortleberry-pinemat manzanita | abla-picea/vasc-arne |
| ces411 | Subalpine fir/grouse whortleberry (Blue Mountains) | abla/vasc |
| ces412 | Subalpine fir/grouse whortleberry (Okanogan and Colville) | abla/vasc |
| ces413 | Subalpine fir/grouse whortleberry/pinegrass (Okanogan) | abla/vasc/caru |
| ces414 | Subalpine fir/twinflower | abla/libo3 |
| ces415 | Subalpine fir/grouse whortleberry/Jacob’s ladder | abla/vasc/popu3 |
| ces421 | Subalpine fir/grouse whortleberry (Daubenmeir) | abla/casc |
| ces422 | Subalpine fir/dwarf bilberry | abla/vaca13 |
| ces423 | Subalpine fir/roughfruit berry | abla/rula2 |
| ces424 | subalpine fir/grouse whortleberry/broadleaf arnica | abla/vasc/arla8 |
| ces425 | Subalpine fir/grouse whortleberry/Hitchcock’s smooth woodrush | abla/vasc/lughl |
| ces426 | Subalpine fir/grouse whortleberry (Wenatchee) | abla/vasc |
| ces5 | Subalpine fir/snowberry-dogwood | abla/symph-cornu |
| ces511 | Engelmann spruce/redosier dogwood | pien/coses |
| ces6 | Subalpine fir-spruce/mountainheath-laborador tea | abla-picea/phyll2-ledum |
| ces611 | Subalpine fir/pink mountainheath | abla/phem |
| ces621 | Subalpine fir/common juniper | abla/juco6 |
| ces631 | Subalpine fir/common juniper (Idaho) | abla/juco6 |
| ces7 | Subalpine fir-spruce/devilsclub | abla-picea/opho |
| cex104 | Malheur (04) 2A: slope less 30% | n/a |
| cex204 | Malheur (04) 2B: slope 30-70% | n/a |
| cf | Pacific silver fir-noble fir | abam-abpr |
| cfc0 | Pacific silver fir-noble fir-associated conifers | abam-abpr-2te |
| cfc1 | Pacific silver fir-mountain hemlock | abam-tsme |
| cfc151 | Pacific silver fir-mountain hemlock/common beargrass | abam-tsme/xete |
| cfc2 | Pacific silver fir-western hemlock | abam-tshe |
| cfc251 | Pacific silver fir-western hemlock/Pacific rhododendron-salal | abam-tshe/rhma3-gash |
| cfc261 | Pacific silver fir-western hemlock/queen’s cup | abam-tshe/clun |
| cfc3 | Pacific silver fir-white fir-grand fir | abam-abco-abgr |
| cfc311 | Pacific silver fir-grand fir/starry false lily of the valley | abam-abgr/mast4 |
| cfc4 | Pacific silver fir-Alaska cedar (Alaska cedar dominant) | abam-chno |
| cfc411 | Pacific silver fir-Alaska cedar/oval-leaf blueberry | abam-chno/vaov |
| cfc412 | Alaska cedar/oval-leaf blueberry | chno/vaov |
| cff0 | Pacific silver fir-noble fir/forbs | abam-abpr/2forb |
| cff1 | Pacific silver fir-noble fir/woodsorrel-twistedstalk-foamflower-bluebead | abam-abpr/oxali-strep3-tiare-clint |
| cff111 | Pacific silver fir/redwood-sorrel (Olympic) | abam/oxor |
| cff141 | Pacific silver fir/bride’s bonnet (Warm Springs) | abam/clun2 |
| cff151 | Pacific silver fir/bride’s bonnet | abam/clun2 |
| cff152 | Pacific silver fir/oneleaf foamflower | abam/titru |
| cff153 | Pacific silver fir/redwood-sorrel | abam/oxor |
| cff154 | Pacific silver fir/oneleaf foamflower-twistedstalk | abam/titru-stlar |
| cff161 | Pacific silver fir/oneleaf foamflower | abam/titru |
| cff162 | Pacific silver fir/oneleaf foamflower | abam/titru |
| cff2 | Pacific silver fir-noble fir/sweet after death | abam-abpr/actr |
| cff211 | Pacific silver fir/sweet after death-oneleaf foamflower | abam/actr-titru |
| cff250 | Pacific silver fir/sweet after death (Mt. Baker-Snoqualmie) | abam/actr |
| cff251 | Noble fir/sweet after death | abpr/actr |
| cff252 | Pacific silver fir/sweet after death | abam/actr |
| cff253 | Pacific silver fir/sweet after death-bride’s bonnet | abam/actr-clun2 |
| cff254 | Pacific silver fir/sweet after death (Wenatchee) | abam/actr |
| cff3 | Pacific silver fir-noble fir/common beargrass | abam-abpr/xete |
| cff311 | Pacific silver fir/common beargrass (Olympic) | abam/xete |
| cff312 | Pacific silver fir/common beargrass (Mt. Baker) | abam/xete |
| cff321 | Pacific silver fir/common beargrass (Warm Springs) | abam/xete |
| cff4 | Pacific silver fir-noble fir/blue windflower-wildginger-wintergreen | abam-abpr/anor-asaru-pyrol |
| cff450 | Pacific silver fir/strawberryleaf raspberry-deer fern | abam/rupe-blsp |
| cff5 | Pacific silver fir-noble fir/twinflower | abam-abpr/libo3 |
| cff6 | Pacific silver fir-noble fir/western swordfern | abam-abpr/pomu |
| cff611 | Pacific silver fir/western swordfern | abam/pomu |
| cff612 | Pacific silver fir/western swordfern-redwood-sorrel | abam/pomu-oxor |
| cff911 | Pacific silver fir (depauperate) | abam |
| cffm | Pacific silver fir/forb (mesic) | abam/2forb |
| cffs | Pacific silver fir/forb-shrub | abam/2forb-2shrub |
| cfg0 | Pacific silver fir/grass | abam/2gram |
| cfm0 | Pacific silver fir-noble fir (wetlands) | abam-abpr |
| CFM1 | Pacific silver fir-noble fir/American skunkcabbage | abam-abpr/lyam3 |
| cfm111 | Pacific silver fir/American skunkcabbage | abam/lyam3 |
| cfrr | Pacific silver fir-noble fir (rocky, little ground vegetation) | abam-abpr |
| cfrs | Pacific silver fir-noble fir (steep, little ground vegetation) | abam-abpr |
| cfrx | Pacific silver fir-noble fir (rocky, steep with scant ground vegetation) | abam-abpr |
| cfs0 | Pacific silver fir-noble fir/shrub | abam-abpr/2shrub |
| cfs1 | Pacific silver fir-noble fir/Cascade barberry-salal | abam-abpr/mane2-gash |
| cfs110 | Pacific silver fir/Cascade barberry (Mt. Baker-Snoqualamie) | abam/mane2 |
| cfs151 | Pacific silver fir/Cascade barberry | abam/mane2 |
| cfs152 | Pacific silver fir/salal (Gifford Pinchot) | abam/gash |
| cfs154 | Pacific silver fir/salal-Cascade barberry | abam/gash-mane2 |
| cfs155 | Pacific silver fir/salal/deer fern | abam/gash/blsp |
| cds156 | Pacific silver fir/salal/redwood-sorrel | abam/gash/oxor |
| cfs2 | Pacific silver fir-noble fir/thinleaf huckleberry-rusty menziesia-Oregon boxleaf | abam-abpr/vame-mefe-pamy |
| cfs211 | Pacific silver fir/thinleaf huckleberry/common beargrass (Olympic) | abam/vame/xete |
| cfs212 | Pacific silver fir/oval-leaf blueberry (Olympic) | abam/vaov |
| cfs213 | Pacific silver fir/oval-leaf blueberry/white avalanche-lily | abam/vaov/ermo8 |
| CFS214 | Pacific silver fir/oval-leaf blueberry/common beargrass (Olympic) | abam/vaov/xete |
| cfs215 | Pacific silver fir/oval-leaf blueberry/oneleaf foamflower | abam/vaov/titru |
| cfs216 | Pacific silver fir/oval-leaf blueberry-Cascade barberry | abam/vaov-mane2 |
| cfs217 | Pacific silver fir/oval-leaf blueberry/redwood-sorrel | amab/vaov/oxor |
| cfs218 | Pacific silver fir/oval-leaf blueberry/bride’s bonnet (Olympic) | amab/vaov/clun2 |
| cfs219 | Pacific silver fir/oval-leaf blueberry/twinflower | abam/vaov/libo3 |
| cfs220 | Pacific silver fir/oval-leaf blueberry-Cascade azalea | abam/vaov-rhal2 |
| cfs221 | Pacific silver fir/thinleaf huckleberry/Sitka valerian | abam/vame/vasi |
| cfs222 | Pacific silver fir/thinleaf huckleberry/twistedstalk | abam/vame/stlar |
| cfs223 | Pacific silver fir/thinleaf huckleberry-oval-leaf blueberry | abam/vame-vaov |
| cfs224 | Pacific silver fir/thinleaf huckleberry | abam/vame |
| cfs225 | Pacific silver fir/oval-leaf blueberry/false lily of the valley | abam/vaov/madi |
| cfs226 | Pacific silver fir/oval-leaf blueberry/oneleaf foamflower (Mt. Baker-Snoqualmie) | ABAM/VAOV/titru |
| cfs228 | Pacific silver fir/oval-leaf blueberry/sidebells wintergreen | abam/vaov/orse |
| cfs229 | Pacific silver fir/thinleaf huckleberry/sidebells wintergreen | abam/vame/orse |
| CFS230 | Pacific silver fir/oval-leaf blueberry-salal (Mt. Baker-Snoqualmie) | abam/vaov-gash |
| cfs231 | Pacific silver fir/oval-leaf blueberry/western swordfern | abam/vaov/pomu |
| cfs232 | Pacific silver fir/oval-leaf blueberry (Wenatchee) | Abam/vaov |
| cfs233 | Pacific silver fir/thinleaf huckleberry/bride’s bonnet (Wenatchee) | abam/vame/clun2 |
| cfs234 | Pacific silver fir/thinleaf huckleberry-sidebells | abam/vame-orse |
| cfs241 | Pacific silver fir/oval-leaf blueberry (Mt. Rainier) | Abam/vaov |
| cfs242 | Pacific silver fir/oval-leaf blueberry-strawberry leaf raspberry | abam/vaov-rupe |
| cfs251 | Pacific silver fir/thinleaf huckleberry/common beargrass | abam/vame/xete |
| cfs252 | Pacific silver fir/thinleaf huckleberry/common beargrassm (Mt. Baker-Snoqualmie) | abam/vame/xete |
| cfs253 | Pacific silver fir/oval-leaf blueberry/bunchberry dogwood | abam/vaov/coca13 |
| cfs254 | Pacific silver fir/rusty menziesia | abam/mefe |
| cfs255 | Pacific silver fir/oval-leaf blueberry-salal | abam/vaov-gash |
| cfs256 | Pacific silver fir/thinleaf huckleberry/bride’s bonnet | abam/vame/clun2 |
| cfs257 | Pacific silver fir/oval-leaf blueberry | abam/vaov |
| cfs258 | Pacific silver fir/oval-leaf blueberry (Mt. Baker-Snoqualmie) | abam/vaov |
| cfs259 | Pacific silver fir/oval-leaf blueberry/common beargrass (Mt. Baker-Snoqualmie) | abam/vaov/xete |
| cfs260 | Pacific silver fir/oval-leaf blueberry/bride’s bonnet (Mt. Baker-Snoqualmie) | abam/vaov/clun2 |
| cfs3 | Pacific silver fir-noble fir/devilsclub | abam-abpr/opho |
| cfs311 | Pacific silver fir/devilsclub (Olympic) | abam/opho |
| cfs321 | Pacific silver fir/devilsclub (Mt. Rainier) | abam/opho |
| cfs351 | Pacific silver fir/devilsclub | abam/opho |
| cfs352 | Pacific silver fir/devilsclub-oval-leaf blueberry | abam/opho-vaov |
| cfs4 | Pacific silver fir-noble fir/grouse whortleberry | abam-abpr/vasc |
| cfs411 | Pacific silver fir/roughfruit berry | abam/rula2 |
| cfs412 | Pacific silver fir/white avalanche lily | abam/ermo8 |
| cfs413 | Pacific silver fir/roughfruit berry (Wenatchee) | abam/rula2 |
| cfs5 | Pacific silver fir-noble fir/Cascade azalea | abam-abpr/rhal2 |
| CFS541 | Pacific silver fir/rusty menziesia | abam/mefe |
| cfs542 | Pacific silver fir/rusty menziesia (Wenatchee) | abam/mefe |
| cfs550 | Pacific silver fir/Cascade azalea (Gifford Pinchot) | abam/rhal2 |
| cfs551 | Pacific silver fir/Cascade azalea/common beargrass | abam/rhal2/xete |
| cfs552 | Pacific silver fir/Cascade azalea/bride’s bonnet | abam/rhal2/clun2 |
| cfs553 | Pacific silver fir/Cascade azalea (Okanogan) | abam/rhal2 |
| cfs554 | Pacific silver fir/Cascade azalea-thinleaf huckleberry | abam/rhal2-vame |
| cfs555 | Pacific silver fir/Cascade azalea-oval-leaf blueberry | abam/rhal2-vaov |
| cfs556 | Pacific silver fir/Cascade azalea-thinleaf huckleberry | abam/rhal2-vame |
| cfs558 | Pacific silver fir/Oregon boxleaf | abam/pamy |
| cfs6 | Pacific silver fir-noble fir/Pacific rhododendron-vine maple | abam-abpr/Rhma3-acci |
| cfs611 | Pacific silver fir/Pacific rhododendron (Olympic) | abam/rhma3 |
| cfs612 | Pacific silver fir/Pacific rhododendron-oval-leaf blueberry | abam/rhma3-vaov |
| cfs621 | Pacific silver fir/vine maple | abam/acci |
| cfs641 | Pacific silver fir/vine maple/foamflower | abam/acci/titr |
| cfs651 | Pacific silver fir/vine maple/oneleaf foamflower | abam/acci/titru |
| cfs652 | Pacific silver fir/Pacific rhododendron-Cascade barberry | abam/rhma3-mane2 |
| cfs653 | Pacific silver fir/Pacific rhododendron/common beargrass | abam/rhma3/xete |
| cfs654 | Pacific silver fir/Pacific rhododendron-oval-leaf blueberry/bunchberry dogwood | abam/rhma3-vaov/coca13 |
| cfsc | Pacific silver fir/shrub (cool) | abam/2shrub |
| cfsd | Pacific silver fir/shrub (dry) | abam/2shrub |
| cfsf | Pacific silver fir/shrub-forb (coastal) | abam/2shrub-2forb |
| cfsm | Pacific silver fir/shrub (mesic) | abam/2shrub |
| ch | Western hemlock | tshe |
| chc0 | Western hemlock-important conifers | tshe-2te |
| chc1 | Western hemlock-Port Orford cedar | tshe-chla |
| chc111 | Western hemlock-Port Orford cedar | tshe-chla |
| chc2 | Western hemlock-Douglas-fir/shrub (dry) | tshe-psme/2shrub |
| chc211 | Western hemlock-Douglas-fir/beaked hazelnut (steep, shallow soil, Willamette) | tshe-psme/coco6 |
| chc212 | Western hemlock-Douglas-fir/oceanspray | tshe-psme/hodi |
| chc213 | Western hemlock-Douglas-fir-Pacific madrone | tshe-psme-arme |
| chc3 | Western hemlock-white fir-grand fir | tsme-abco-abgr |
| chc311 | Western hemlock-grand fir/bride’s bonnet | tsme-abgr/clun2 |
| chc341 | Western hemlock/dwarf Oregon grape/vanillaleaf (SWO) | tshe/bene/actr (SWO) |
| chc4 | Western hemlock-western red cedar | tshe-thpl |
| chc412 | Western hemlock-Douglas-fir/salal | tshe-psme/gash |
| chc422 | Western hemlock/vine maple-snow bramble | tshe/acci-runi |
| chc441 | Western hemlock-bigleaf maple/western sword-fern | tshe-acma/pomu |
| chc442 | Western hemlock-western redcedar/western sword-fern | tshe-thpl/oxor |
| chc461 | Western hemlock-western redcedar | tshe-thpl |
| chc5 | Western hemlock-Paciic silver fir | tshe-abam |
| chc551 | Western hemlock-Pacific silver fir/Pacific rhododendron-Cascade barberry | tshe-abam/rhma3-mane2 |
| chc552 | Western hemlock-Pacific silver fir/Pacific rhododendron/twinflower | tshe-abam/rhma3/libo3 |
| chc553 | Western hemlock-Pacific silver fir/twinflower | tshe-abam/libo3 |
| chc554 | Western hemlock-Pacific silver fir/thin-leaved huckleberry | tshe-abam/vame |
| chc6 | Western hemlock-incense cedar | tshe-cade27 |
| chc611 | Western hemlock-white fir | tshe-abco |
| chc612 | Western hemlock-white fir/Pacific rhododendron | tshe-abco/rhma |
| chc613 | Western hemlock-incense cedar/salal | tshe-cade3/gash |
| chc911 | Western hemlock/thin-leaved huckleberry/western | tshe/vame/libol |
| chc921 | Western hemlock-Pacific yew/Pacific rhododendron | tshe-tabr/rhma |
| chf0 | Western hemlock/forbs | tshe/2forb |
| chf1 | Western hemlock/western swordfern/redwood-sorrel | tshe/pomu/oxor |
| chf111 | Western hemlock/redwood-sorrel (Willamette) | tshe/oxor |
| chf112 | Western hemlock/redwood-sorrel (Olympic) | tshe/oxor |
| chf121 | Western hemlock/redwood-sorrel (coastal) | tshe/oxor |
| chf122 | Western hemlock/western swordfern (coastal) | tshe/pomu |
| chf123 | Western hemlock/western swordfern (Mt. Baker) | tshe/pomu |
| chf124 | Western hemlock/western swordfern-redwood-sorrel | tshe/pomu-oxor |
| chf125 | Western hemlock/western swordfern (Gifford Pinchot) | tshe/pomu |
| chf131 | Western hemlock/western swordfern-redwood-sorrel (Olympic) | tshe/pomu-oxor |
| chf132 | Western hemlock/western swordfern-threeleaf foamflower (Olympic) | tshe/pomu-titr |
| chf133 | Western hemlock/western swordfern-salal | tshe/pomu-gash |
| chf134 | Western hemlock/western swordfern-Cascade barberry | tshe/pomu-mane2 |
| chf135 | Western hemlock/western swordfern-threeleaf foamflower (Mt. Baker-Snoqualmie) | tshe/pomi-titr |
| chf151 | Western hemlock/western swordfern (Willamette) | tshe/pomu |
| chf2 | Western hemlock/sweet after death-threeleaf foamflower (dry) | tshe/actr-titr |
| chf211 | Western hemlock/sweet after death (Olympic) | tshe/actr |
| chf221 | Western hemlock/sweet after death | tshe/actr |
| chf222 | Western hemlock/threeleaf foamflower | tshe/titr |
| chf223 | Western hemlock/sweet after death (Wenatchee) | tshe/actr |
| chf250 | Western hemlock/threeleaf foamflower-western oakfern | tshe/titr-gydr |
| chf3 | Western hemlock/bride’s bonnet-twinflower (mesic) | tshe/clun2-libo3 |
| chf311 | Western hemlock/bride’s bonnet | tshe/clun2 |
| chf312 | Western hemlock/wild sarsaparilla | tshe/arnu2 |
| chf313 | Western hemlock/British Columbia wildginger | tshe/asca2 |
| chf321 | Western hemlock/twinflower | tshe/libo3 |
| chf4 | Western hemlock/fern | tshe/2fern |
| chf421 | Western hemlock/common ladyfern | tshe/atfi |
| chf422 | Western hemlock/Pacific oakfern | tshe/gydi2 |
| chf5 | Western hemlock/common beargrass | tshe/xete |
| chf511 | Western hemlock/common beargrass (Olympic) | tshe/xete |
| chf521 | Western hemlock/common beargrass (Colville) | tshe/xete |
| chf531 | Western hemlock/common beargrass (Warm Springs) | tshe/xete |
| chf911 | Western hemlock/depauperate | tshe |
| chh0 | Western hemlock-important hardwoods | tshe-2td |
| chh1 | Western hemlock/tanoak-California laurel | tshe/lide3/umca |
| chh111 | Western hemlock-California laurel | tshe-umca |
| chh2 | Western hemlock/bigleaf maple | tshe/acma3 |
| chh3 | Western hemlock/giant chinquapin | tshe/chchc4 |
| chh351 | Western hemlock/giant chinquapin | tshe/chchc4 |
| chh4 | Western hemlock/alder | tshe/alnus |
| chh5 | Western hemlock/oak | tshe/querc |
| chm0 | Western hemlock (wetlands, moist to west soil) | tshe |
| chm1 | Western hemlock/American skunkcabbage (wetlands) | tshe/lyam3 |
| chm111 | Western hemlock/American skunkcabbage (Olympic) | tshe/lyam3 |
| chm121 | Western hemlock/American skunkcabbage | tshe/lyam3 |
| chs0 | Western hemlock/shrub | tshe/2shrub |
| chs1 | Western hemlock/salal-Cascade barberry | tshe/gash-mane2 |
| chs111 | Western hemlock/salal (Willamette) | tshe/gash |
| chs112 | Western hemlock/Pursh’s buckthorn/salal (flat deep soil) | tshe/frpu/gash |
| chs113 | Western hemlock/Cascade barberry/redwood-sorrel | tshe/mane2/oxor |
| chs114 | Western hemlock/Cascade barberry/sweet after death | tshe/mane2/actr |
| chs121 | Western hemlock/Cascade barberry (coastal) | tshe/mane2 |
| chs122 | Western hemlock/Cascade barberry-salal (coastal) | tshe/mane2-gash |
| chs123 | Western hemlock/salal (coastal) | tshe/gash |
| chs124 | Western hemlock/Cascade barberry-salal | tshe/mane2-gash |
| chs125 | Western hemlock/Cascade barberry | tshe/mane2 |
| chs126 | Western hemlock/Cascade barberry/western swordfern | tshe/mane2/pomu |
| chs127 | Western hemlock/Cascade barberry-salal (Gifford Pinchot) | tshe/mane2-gash |
| chs128 | Western hemlock/salal (Gifford Pinchot) | tshe/gash |
| chs129 | Western hemlock/salal (Mt. Baker-Snoqualmie) | tshe/gash |
| chs130 | Western hemlock/Cascade barberry (Mt. Baker-Snoqualmie) | tshe/mane2 |
| chs131 | Western hemlock/salal (SWO) | tshe/gash (swo) |
| chs132 | Western hemlock/salal/common beargrass | tshe/gash/xete |
| chs133 | Western hemlock/salal-California huckleberry | tshe/gash-vaov2 |
| chs134 | Western hemlock/salal-oceanspray | tshe/gash-hodi |
| chs135 | Western hemlock/salal-Cascade barberry | tshe/gash-mane2 |
| chs136 | Western hemlock/salal/redwood-sorrel | tshe/Gash/oxor |
| chs137 | Western hemlock/salal/western swordfern | tshe/gash/pomu |
| chs138 | Western hemlock/Cascade barberry (Olympic) | tshe/mane2 |
| chs139 | Western hemlock/Cascade barberry/western swordfern (Olympic) | tshe/mane2/pomu |
| chs140 | Western hemlock/salal-thinleaf huckleberry | tshe/gash-vame |
| chs141 | Western hemlock/Cascade barberry/little prince’s pine | tshe/mane2/chme |
| chs142 | Western hemlock/Cascade barberry (Wenatchee) | tshe/mane2 |
| chs143 | Western hemlock/Oregon boxleaf/bride’s bonnet | tshe/pamy/clun2 |
| chs144 | Western hemlock/pinemat manzanita | Tshe/arne |
| chs2 | Western hemlock/vine maple | tshe/acci |
| chs211 | Western hemlock/vine maple (Warm Springs) | tshe/acci |
| chs221 | Western hemlock/vine maple-salal | tshe/acci-gash |
| chs222 | Western hemlock/vine maple/western swordfern (coast) | tshe/acci/pomu |
| chs223 | Western hemlock/vine maple/sweet after death | tshe/acci/actr |
| chs224 | Western hemlock/Pacific dogwood/sweet after death | tshe/conu4/actr |
| chs225 | Western hemlock/vine maple/sweet after death | tshe/acci/actr |
| chs226 | Western hemlock/vine maple/British Columbia wild ginger | tshe/acci/asca2 |
| chs227 | Western hemlock/vine maple/bride’s bonnet | tshe/acci/clun2 |
| chs251 | Western hemlock/vine maple-Cascade barberry | tshe/acci-mane2 |
| chs261 | Western hemlock-red alder/western swordfern | tshe-alru/pomu |
| chs271 | Western hemlock/Douglas maple/western twinflower | tshe/argl/libol |
| chs3 | Western hemlock/Pacific rhododendron | tshe/rhma3 |
| chs311 | Western hemlock-Pacific silver fir/Pacific rhododendron (rolling, deep, Willamette) | tshe-abam/rhma3 |
| chs312 | Western hemlock/Pacific rhododendron-vine maple (steep, deep, Willamette) | tshe/rhma3-acci |
| chs313 | Western hemlock/vine maple-Pacific rhododendron | tshe/acci-rhma3 |
| chs321 | Western hemlock/Pacific rhododendron-Cascade barberry (coast) | tshe/RHMA3-mane2 |
| chs322 | Western hemlock/Pacific rhododendron-salal (coast) | tshe/rhma3-gash |
| chs323 | Western hemlock/Pacific rhododendron/western swordfern (coast) | tshe/rhma3/pomu |
| chs324 | Western hemlock/Pacific rhododendron-California huckleberry (coast) | thse/rhma3-vaov2 |
| chs325 | Western hemlock/Pacific rhododendron/common beargrass | tshe/rhma3/xete |
| chs326 | Western hemlock/Pacific rhododendron-oval-leaf blueberry/bunchberry dogwood | tshe/rhma3-vaov/coca13 |
| chs327 | Western hemlock/Pacific rhododendron-salal (Mt. Hood) | tshe/rhma3-gash |
| chs328 | Western hemlock/Pacific rhododendron-Cascade barberry (Mt. Hood) | tshe/rhma3-mane2 |
| chs329 | Western hemlock/Pacific rhododendron (Warm Springs) | tshe/rhma3 |
| chs331 | Western hemlock/Pacific rhododendron (SWO) | tshe/rhma3 |
| chs332 | Western hemlock/Pacific rhododendron/common beargrass (Olympic) | tshe/rhma3/XETE |
| chs333 | Western hemlock/Pacific rhododendron-Cascade barberry (Olympic) | tshe/rhma3-mane2 |
| chs334 | Western hemlock/Pacific rhododendron-salal (Olympic) | tshe/rhma3-gash |
| chs335 | Western hemlock/Pacific rhododendron/western swordfern (Olympic) | tshe/rhma3/pomu |
| chs341 | Western hemlock/Pacific rhododendron/western twinflower (SWO) | tshe/rhma3/libol (SWO) |
| chs351 | Western hemlock/Pacific rhododendron-salal | tshe/rhma3-gash |
| chs352 | Western hemlock/Pacific rhododendron-Cascade barberry (Willamette) | tshe/rhma3-mane2 |
| chs353 | Western hemlock/Pacific rhododendron/common beargrass (Willamette) | tshe/rhma3/xete |
| chs354 | Western hemlock/Pacific rhododendron/redwood-sorrel | tshe/rhma3/oxor |
| chs355 | Western hemlock/Pacific rhododendron/twinflower | tshe/rhma3/libo3 |
| chs4 | Western hemlock/thimbleberry-salmonberry (mesic) | tshe/rupa-rusp |
| chs411 | Western hemlock/strawberryleaf raspberry | tshe/rupe |
| chs421 | Western hemlock/salmonberry (coastal) | tshe/rusp |
| chs422 | Western hemlock/salmonberry-vine maple (coast) | tshe/rusp-acci |
| chs423 | Western hemlock/salmonberry-salal | tshe/rusp-gash |
| chs5 | Western hemlock/devilsclub | tshe/opho |
| chs511 | Western hemlock/devilsclub (Willamette) | tshe/opho |
| chs512 | Western hemlock/devilsclub (Olympic) | tshe/opho |
| chs513 | Western hemlock/devilsclub-common ladyfern | tshe/opho-atfi |
| chs514 | Western hemlock/devilsclub (Mt. Rainier) | tshe/opho |
| chs521 | Western hemlock/devilsclub (coastal) | tshe/opho |
| chs522 | Western hemlock/devilsclub/redwood-sorrel | tshe/opho/oxor |
| chs523 | Western hemlock/devilsclub/starry false lily of the valley | tshe/opho/mast4 |
| chs524 | Western hemlock/devilsclub/western swordfern | tshe/opho/pomu |
| chs6 | Western hemlock/thinleaf huckleberry | tshe/vame |
| chs610 | Western hemlock/California huckleberry (coastal) | tshe/vaov2 |
| chs611 | Western hemlock/oval-leaf blueberry-devilsclub | tshe/vaov-opho |
| chs612 | Western hemlock/thinleaf huckleberry/common beargrass | tshe/vame/xete |
| chs613 | Western hemlock/oval-leaf blueberry/redwood-sorrel | tshe/vaov/oxor |
| chs614 | Western hemlock/oval-leaf blueberry-salal | tshe/vaov-gash |
| chs615 | Western hemlock/oval-leaf blueberry/bunchberry | tshe/vaov/coca13 |
| chs621 | Western hemlock/oval-leaf blueberry | tshe/vaov |
| chs622 | Western hemlock/oval-leaf blueberry/common beargrass | tshe/vaov/xete |
| chs623 | Western hemlock/oval-leaf blueberry/redwood-sorrel (Olympic) | tshe/vaov/oxor |
| chs624 | Western hemlock/oval-leaf blueberry-salal (Olympic) | tshe/vaov-gash |
| chs625 | Western hemlock/oval-leaf blueberry-western swordfern | tshe/vaov-pomu |
| chs626 | Western hemlock/oval-leaf blueberry-Cascade barberry | tshe/vaov-mane2 |
| chs631 | Western hemlock/vine maple/Oregon oxalis | tshe/acci/oxor |
| chs7 | Western hemlock/rhododendron-rusty menziesia-buffaloberry | tshe/rhodo-mefe-sheph |
| chs711 | Western hemlock/rusty menziesia | tshe/mefe |
| chs8 | Western hemlock/oak chapparal | tshe/querc |
| chsC | Western hemlock/Pacific rhododendron (cool) | tshe/rhma3 |
| chsd | Western hemlock/salal-Cascade barberry (dry) | tshe/gash-mane2 |
| chsf | Western hemlock/shrub/redwood-sorrel | tshe/2shrub/oxor |
| chsm | Western hemlock/Pacific rhododendron (mesic) | tshe/rhma3 |
| chz412 | Spruce-hemlock-cedar/hardwood (Siuslaw, 12) | picea-tsuga-chama4/2td |
| chz612 | Spruce-hemlock-cedar (Siuslaw, 12) | picea-tsuga-chama4 |
| cj | Western juniper | juoc |
| cjc0 | Western juniper-associated conifers | juoc-2te |
| cjg0 | Western juniper/grass | juoc/2gram |
| cjg1 | Western juniper/bluebunch wheatgrass | juoc/pssps |
| cjg111 | Western juniper/Idaho fescue-bluebunch wheatgrass | juoc/feid-pssps |
| cjg112 | Western juniper/bluebunch wheatgrass-Sanberg bluegrass | juoc/pssps-pose |
| chg2 | Western juniper/Idaho fescue | juoc/feid |
| cjrr | Western juniper (very rocky site) | juoc |
| cjrs | Western juniper (steep slopes, little ground vegetation) | juoc |
| cjrx | Western juniper (rocks, stepp slopes, minimal ground vegetation) | juoc |
| cjs0 | Western juniper/shrub | juoc/2shrub |
| cjs1 | Western juniper/little sagebrush | juoc/arar8 |
| cjs111 | Western juniper/little sagebrush/bluebunch wheatgrass-Idaho fescue | juoc/arar8/feid |
| cjs112 | Western juniper/little sagebrush/Idaho fescue | juoc/arar8/feid |
| cjs2 | Western juniper/mountain big sagebrush | juoc/artrv |
| cjs211 | Western juniper/big sagebrush/bluebunch wheatgrass-Idaho fescue | juoc/artr2/PSSPS-feid |
| cjs212 | Western juniper/basin big sagebrush/Idaho fescue-bluebunch wheatgrass (north) | juoc/artrt/feid-pssps |
| cjs213 | Western juniper/basin big sagebrush/bluebunch wheatgrass-Sanberg bluegrass (south) | juoc/artrt/pssps-pose |
| cjs221 | Western juniper/big sagebrush/bluebunch wheatgrass | juoc/artr2/pssps |
| cjs222 | Western juniper/big sagebrush/bluebunch wheatgrass-Douglas’ dustymaiden | juoc/artr2/pssps-chdo |
| cjs223 | Western juniper/big sagebrush/bluebunch wheatgrass-woollypod milkvetch | juoc/artr2/pssps-aspul2 |
| cjs224 | Western juniper/big sagebrush/Idaho fescue | juoc/artr2/feid |
| cjs225 | Western juniper/big sagebrush/Idaho fescue-lupine | juoc/artr2/feid-lupin |
| chs226 | Western juniper/basin big sagebrush/bluebunch wheatgrass-Idaho fescue (flat) | juoc/artrt/pssps-feid |
| cjs231 | Western juniper/basin big sagebrush-rockspirea/bluebunch wheatgrass-arrowleaf balsamroot (S.CAN) | juoc/artrt-hodu/pssps-basa3 |
| cjs232 | Western juniper/basin big sagebrush-yellow rabbitbrush/Idaho fescue-arrowleaf balsamroot (N.CAN) | juoc/artrt-chvi8/feid-basa3 |
| cjs236 | Western juniper/big sagebrush-antelope bitterbrush | juoc/artr2-putr2 |
| cjs291 | Western juniper/rubber rabbitbrush-basin big sagebrush/crested wheatgrass | juoc/ernans-artrt/agcr |
| cjs292 | Western juniper/rubber rabbitbrush-basin big sagebrush/beardless wheatgrass | juoc/ernans-artrt/psspi |
| cjs3 | Western juniper/antelope bitterbrush | juoc/putr2 |
| cjs311 | Western juniper/antelope bitterbrush/bluebunch wheatgrass-Idaho fescue | juoc/putr2/pssps-feid |
| cjs321 | Western juniper/antelope bitterbrush/Idaho fescue-bluebunch wheatgrass | juoc/putre/feid-pssps |
| cjs4 | Western juniper/mountain mahogany | juoc/cerco |
| cjs8 | Western juniper/scabland sagebrush (scabland) | juoc/arri2 |
| cjs811 | Western juniper/basin big sagebrush/bluebunch wheatgrass-Idaho fescue (mound) | juoc/artrt/pssps-feid |
| cl | Lodgepole pine-whitebark pine (climax or stable) | pico-pial |
| clc0 | Lodgepole pine-whitebark pine-associated conifers | pico-pial |
| clc1 | Lodgepole pine-whitebark pine (alpine) | pico-pial |
| clc111 | Lodgepole pine-whitebark pine/mountain blue penstemon | pico-pial/pela7 |
| clc112 | Lodgepole pine-whitebark pine/King’s sandwort | pico-pial/arki |
| clc2 | Lodgepole pine-Douglas-fir/juniper-manzanita (serpentine) | pico-psme/junip-arrct03 |
| clc3 | Lodgepole pine-ponderosa pine | pico-pipo |
| CLC4 | Lodgepole pine-Douglas-fir | pico-psme |
| clc5 | Lodgepole pine-mountain hemlock | pico-tsme |
| clc511 | Lodgepole pine-mountain hemlock/long-stolen sedge | pipo-tsme/cape5 |
| clf0 | Lodgepole pine/forbs | pico/2forb |
| clf1 | Lodgepole pine/forbs (less than ½ meter tall) | pico/2forb |
| clf111 | Lodgepole pine/little prince’s pine-lupine | pico/chme-lupin |
| clf211 | Lodgepole pine/twinflower | pico/libo3 |
| clg0 | Lodgepole pine/grass | pico/2gram |
| clg1 | Lodgepole pine/Idaho fescue | pico/feid |
| clg111 | Lodgepole pine/Idaho fescue | pico/feid |
| clg2 | Lodgepole pine/pinegrass | pico/caru |
| clg211 | Lodgepole pine/pinegrass-grouse whortleberry | pico/caru-vasc |
| clg3 | Lodgepole pine/Idaho fescue (pumice) | pico/feid |
| clg311 | Lodgepole pine/western needlegrass (basins, pumice) | pico/acoco |
| clg312 | Lodgepole pine/antelope bitterbrush/Idaho fescue (underburned) | pico/putr2/feid |
| clg313 | Lodgepole pine/western needlegrass-tailcup lupine-Nutall’s linanthus | pico/acoco-luca-linu3 |
| clg314 | Lodgepole pine/western needlegrass-tailcup lupine (pumice) | pico/acoco-luca |
| clg315 | Lodgepole pine/Virginia strawberry-Idaho fescue | pico/frvip2-feid |
| clg321 | Lodgepole pine/Geyer’s sedge | pico/cage2 |
| clg4 | Lodgepole pine/rhizomatous grass (pumice) | pico/2gram |
| clg411 | Lodgepole pine/long-stolon sedge-tailcup lupine (pumice) | pico/cain9-luca |
| clg412 | Lodgepole pine/long-stolon sedge-tailcup lupine-beardtongue | pico/cain9-luca-penst |
| clg415 | Lodgepole pine/squirreltail-long-stolon sedge | pico/cain9-acoco |
| clh0 | Lodgepole pine-hardwoods | pico-2td |
| clh1 | Lodgepole pine-quaking aspen | pico-potr5 |
| clh111 | Lodgepole pine-quaking aspen/Virginia strawberry | pico-potr5/frvip2 |
| clm0 | Lodgepole pine (wetlands, moist to wet soils) | pico |
| clm1 | Lodgepole pine/sedge-grass (wetland) | pico/carex-2gram |
| clm111 | Lodgepole pine/Nebraska sedge-blue wildrye (wetland) | pico/cane2-elgl |
| clm112 | Lodgepole pine/Kentucky bluegrass | pico/popr |
| clm113 | Lodgepole pine/widefruit sedge | pico/caan15 |
| clm114 | Lodgepole pine/water sedge | pico/caaq |
| clm115 | Lodgepole pine/tufted hairgrass | pico/deca18 |
| clm2 | Lodgepole pine/dwarf shrub-grass (wetland) | pico/2shrub-2gram |
| clm211 | Lodgepole pine/kinnikinnick (pumice) | pico/aruv |
| clm3 | Lodgepole pine/blueberry-grass (wetland) | pico/vacci-2gram |
| clm311 | Lodgepole pine/bog blueberry-forb (pumice) | pico/vaul-2forb |
| clm312 | Lodgepole pine/bog blueberry/widefruit sedge | pico/vaul/caan15 |
| clm313 | Lodgepole pine/rose spirea/forb | pico/spdo/2forb |
| clm314 | Lodgepole pine/rose spirea/widefruit sedge | pico/spdo/caan15 |
| clm411 | Lodgepole pine/common beargrass (pumice) | pico/xete |
| clm9 | Lodgepole pine (invading meadows) | pico |
| clm911 | Lodgepole pine-Engelmann spruce/fewflower spikerush | pico-pien/elqu2 |
| clrr | Lodgepole pine (very rocky, little ground vegetation) | pico |
| clrs | Lodgepole pine (steep, stony, little ground vegetation) | pico |
| clrx | Lodgepole pine (rocky, steep, little ground vegetation) | pico |
| cls0 | Lodgepole pine/shrub | pico/2shrub |
| cls1 | Lodgepole pine/big sagebrush | pico/artr2 |
| cls111 | Lodgepole pine/big sagebrush/Idaho fescue (pumice) | Pico/artr2/feid |
| cls112 | Lodgepole pine/big sagebrush (rhyolite, pumice) | Pico/artr2 |
| cls2 | Lodgepole pine/antelope bitterbrush (xeric) | Pico/putr2 |
| cls211 | Lodgepole pine/antelope bitterbrush/western needlegrass (pumice) | Pico/putr2/acoco |
| cls212 | Lodgepole pine/antelope bitterbrush/long-stolon sedge (pumice) | Pico/putr2/cain9 |
| cls213 | Lodgepole pine/antelope bitterbrush/forb (pumice) | Pico/putr2/2forb |
| cls214 | Lodgepole pine/antelope bitterbrush/Idaho fescue | Pico/putr2/feid |
| cls215 | Lodgepole pine/wax currant-antelope bitterbrush/western needlegrass (pumice) | Pico/rice-putr2/acoco |
| cls216 | Lodgepole pine/antelope bitterbrush (rhyolite) | Pico/putr2 |
| cls3 | Lodgepole pine/pinemat manzanita | pico/arne |
| cls311 | Lodgepole pine/pinemat manzanita | pico/arne |
| cls312 | Lodgepole pine/pinemat manzanita/lupin | pico/arne/lupin |
| cls4 | Lodgepole pine/grouse whortleberry (cool xeric) | pico/vasc |
| cls411 | Lodgepole pine/grouse whortleberry (Blue Mountains) | pico/vasc |
| cls412 | Lodgepole pine/grouse whortleberry (pumice) | pico/vasc |
| cls413 | Lodgepole pine/grouse whortleberry/forb | pico/vasc/2forb |
| cls414 | Lodgepole pine/grouse whortleberry/long-stolon sedge | pico/vasc/cain9 |
| cls415 | Lodgepole pine/grouse whortleberry (Wallowa) | pico/vasc |
| cls416 | Lodgepole pine/pinegrass (climax) | pico/caru |
| cls421 | Lodgepole pine/grouse whortleberry (Idaho) | pico/vasc |
| cls422 | Lodgepole pine/dwarf bilberry | pico/vaca13 |
| cls5 | Lodgepole pine/thinleaf huckleberry/pinegrass | pico/vame/caru |
| cls511 | Lodgepole pine/thinleaf huckleberry (Blue Mountain) | pico/vame |
| cls515 | Lodgepole pine/thinleaf huckleberry (Wallowa) | pico/vame |
| cls521 | Lodgepole pine/russet buffaloberry | pico/shca |
| cls6 | Lodgepole pine/Sitka alder (moist sites) | pico/alvis |
| cls8 | Lodgepole pine/salal-California huckleberry (coastal) | pico/gash-vaov2 |
| cls811 | Lodgepole pine/salal-California huckleberry/sedge (deflation plain) | pico/gash-vaov/carex |
| cls812 | Lodgepole pine/rhododendron/California huckleberry (floodplain, dune) | pico/rhodo/vaov2 |
| cls821 | Lodgepole pine/rhododendron/California huckleberry (stabilized dune) | pico/rhodo/vaov2 |
| cls822 | Lodgepole pine/rhododendron/California huckleberry (eroding dune) | pico/rhodo/vaov2 |
| cls823 | Lodgepole pine/rhododendron/California huckleberry (dune slipface) | pico/rhodo/vaov2 |
| cls831 | Lodgepole pine/kinnikinnick-hairy manzanita (rolling dune, open) | pico/aruv-arco3 |
| cls911 | Lodgepole pine/snowbrush ceanothus-greenleaf manzanita (pumice) | pico/ceve-arpa6 |
| clsm | Lodgepole pine/shrub (mesic) | pico/2shrub |
| clx104 | Malheur(04) 4A: slope <30%, CLG211, CKS511, CLS411 | n/a |
| clx120 | Winema(20): CLG411, CLS212, CLG3 | n/a |
| clx204 | Malheur(04) 4B: slope 30-70%, CLG211, CLS511, CLS411 | n/a |
| clx220 | Winema(20): CLG311, CLM111, CLM211, CLM214 | n/a |
| clx320 | Winema(20): CLM211, CLS211, CLS213 | n/a |
| clx420 | Winema(20): CLG311 | n/a |
| CLX520 | Winema(20): CLG9, CLS9 | n/a |
| cm | Mountain hemlock | tsme |
| cmc0 | Mountain hemlock-associated important conifers | tsme-2te |
| cmc1 | Mountain hemlock-Alaska cedar | tsme-chno |
| cmc151 | Alaska cedar/devilsclub | chno/opho |
| cmc2 | Mountain hemlock-fir | tsme-abies |
| cmc3 | Mountain hemlock-lodgepole pine | tsme-pico |
| cmc311 | Mountain hemlock-lodgepole pine/pinemat manzanita | tsme-pico/arne |
| cmc312 | Mountain hemlock-lodgepole pine/grouse whortleberry | tsme-pico/vasc |
| cmc313 | Mountain hemlock-lodgepole pine-subalpine fir | tsme-pico-abla |
| cmf0 | Mountain hemlock/forbs | tsme/2forb |
| cmf1 | Mountain hemlock/common beargrass | tsme/xete |
| cmf111 | Mountain hemlock/common beargrass (Warm Springs) | tsme/xete |
| cmf121 | Mountain hemlock/common beargrass-(Daubenmeir) | tsme/xete |
| cmf131 | Mountain hemlock/common beargrass-whortleberry | tsme/xete-vamy2 |
| cmf2 | Mountain hemlock/oneleaf foamflower-sweet after death | tsme/titru-actr |
| cmf211 | Mountain hemlock/skunk-leaved polemonium | tsme/popu |
| cmf250 | Mountain hemlock/oneleaf foamflower-twisted stalk | tsme/titru-stlar |
| cmf251 | Mountain hemlock/Howell’s marsh marigold | tsme/caleh2 |
| cmf3 | Mountain hemlock/wintergreen | tsme/pyrol |
| cmfc | Mountain hemlock/forb (cool) | tsme/2forb |
| cmg0 | Mountain hemlock/shrub | tsme/2shrub |
| cmg1 | Mountain hemlock/pinegrass | tsme/caru |
| cmg2 | Mountain hemlock/woodrush | tsme/luzul |
| cmg211 | Mountain hemlock/woodrush | tsme/luzul |
| cmg221 | Mountain hemlock/Hitchcock’s smooth woodrush | tsme/luglh |
| cmg3 | Mountain hemlock/sedge | tsme/carex |
| cmrr | Mountain hemlock (rocky, minimum ground vegetation) | tsme |
| cmrs | Mountain hemlock (steep, minimum ground vegetation) | tsme |
| cmrx | Mountain hemlock (rocky or steep, minimum ground vegetation) | tsme |
| cms0 | Mountain hemlock/shrub | tsme/2shrub |
| cms1 | Mountain hemlock/grouse whortleberry/pinemat manzanita | tsme/vasc/arne |
| cms111 | Mountain hemlock/grouse whortleberry (Deschutes) | tsme/vasc |
| cms113 | Mountain hemlock/grouse whortleberry (Deschutes) | tsme/vasc |
| cms114 | Mountain hemlock/grouse whortleberry | tsme/vasc |
| cms115 | Mountain hemlock/grouse whortleberry (Mt. Hood) | tsme/vasc |
| cms121 | Mountain hemlock/grouse whortleberry/Hitchcock’s smooth woodrush | tsme/vasc/luglh |
| cms122 | Mountain hemlock/roughfruit berry | tsme/rula2 |
| cms131 | Mountain hemlock/grouse whortleberry (Wallowa) | tsme/vasc |
| cms2 | Mountain hemlock/thinleaf huckleberry-rusty menziesia | tsme/vame-mefe |
| cms210 | Mountain hemlock/thinleaf huckleberry (Gifford Pinchot) | tsme/vame |
| cms211 | Mountain hemlock/blueberry (steep, pumice, Willamette) | tsme/vacci |
| cms212 | Mountain hemlock/blueberry (ash, Willamette) | tsme/vacci |
| cms213 | Mountain hemlock-fir/blueberry (black sand, Willamette) | tsme/vacci |
| cms214 | Mountain hemlock-fir/blueberry (steep, ash, Willamette) | tsme/vacci |
| cms215 | Mountain hemlock/blueberry (cinders, Willamette) | tsme/vacci |
| cms216 | Mountain hemlock/thinleaf huckleberry/common beargrass | tsme/vame/xete |
| cms218 | Mountain hemlock/thinleaf huckleberry/bride’s bonnet | tsme/vame/clun2 |
| cms220 | Mountain hemlock/rusy menziesia (Daubenmeir) | tsme/mefe |
| cms221 | Mountain hemlock/rusty menziesia | tsme/mefe |
| cms223 | Mountain hemlock/Cascade azalea | tsme/rhal2 |
| cms231 | Mountain hemlock/thinleaf huckleberry (Wallowa) | tsme/vame |
| cms241 | Mountain hemlock/oval-leaf blueberry | tsme/vaov |
| cms242 | Mountain hemlock/oval-leaf blueberry/white avalanche-lily | tsme/vaov/ermo8 |
| cms243 | Mountain hemlock/oval-leaf blueberry/common beargrass | tsme/vaov/xete |
| cms244 | Mountain hemlock/thinleaf huckleberry-oval-leaf blueberry | tsme/vame-vaov |
| cms245 | Mountain hemlock/thinleaf huckleberry/common beargrass (western Washington) | tsme/vame/xete |
| cms246 | Mountain hemlock/thinleaf huckleberry (Mt. Baker-Snoqualmie) | tsme/vame |
| cms250 | Mountain hemlock/thinleaf huckleberry/twistedstalk | tsme/vame/stlar |
| cms251 | Mountain hemlock/thinleaf huckleberry/Sitka valerian | tsme/vame/vasi |
| cms252 | Mountain hemlock/oval-leaf blueberry/twistedstalk | tsme/vaov/stlar |
| cms253 | Mountain hemlock/oval-leaf blueberry/bride’s bonnet | tsme/vaov/clun2 |
| cms254 | Mountain hemlock/thinleaf huckleberry/roughfruit | tsme/vame/rula2 |
| cms255 | Mountain hemlock/oval-leaf blueberry/false lily of the valley | tsme/vaov/madi |
| cms256 | Mountain hemlock/rusty menziesia-oval-leaf blueberry | tsme/mefe-vaov |
| cms257 | Mountain hemlock/rusty menziesia-thinleaf huckleberry | tsme/mefe-vame |
| cms258 | Mountain hemlock/oval-leaf blueberry (Wenatchee) | tsme/vaov |
| cms259 | Mountain hemlock/thinleaf huckleberry (Wenatchee) | tsme/vame |
| cms3 | Mountain hemlock/rusty menziesia-pink mountainheath-Cascade azalea | tsme/mefe-phem-rhal2 |
| cms311 | Mountain hemlock/pink mountainheath-Cascade bilberry | tsme/phem-vade |

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| CMS312 | Mountain hemlock/Cascade azalea-thinleaf huckleberry | TSME/RHAL2-VAME |
| CMS323 | Mountain hemlock/Cascade azalea | TSME/RHAL2 |
| CMS350 | Mountain hemlock/pink mountainheath-Cascade bilberry | TSME/PHEM-VADE |
| CMS351 | Mountain hemlock/Cascade azalea-oval-leaf blueberry | TSME/RHAL2-VAOV |
| CMS352 | Mountain hemlock/Cascade azalea-thinleaf huckleberry | TSME/RHAL2-VAME |
| CMS353 | Mountain hemlock/copperbush/strawberryleaf raspberry | TSME/ELPY/RUPE |
| CMS354 | Mountain hemlock/pink mountainheath-Cascade bilberry | TSME/PHEM-VADE |
| CMS355 | Mountain hemlock/Cascade azalea-oval-leaf blueberry | TSME/RHAL2-VAOV |
| CMS356 | Mountain hemlock/Cascade azalea-thinleaf huckleberry | TSME/RHAL2-VAME |
| CMS4 | Mountain hemlock/devilsclub | TSME/OPHO |
| CMS450 | Mountain hemlock/devilsclub-oval-leaf blueberry | TSME/OPHO-VAOV |
| CMS5 | Mountain hemlock/low shrub | TSME/2SHRUB |
| CMS6 | Mountain hemlock/vine maple-oceanspray-Pacific rhododendron | TSME/ACCI-HODI-RHMA3 |
| CMS611 | Mountain hemlock-Douglas-fir/vine maple (lava, Willamette) | TSME-PSME/ACCI |
| CMS612 | Mountain hemlock/Pacific rhododendron | TSME/RHMA3 |
| CMS641 | Mountain hemlock-Pacific silver fir/Pacific rhododendron | TSME-ABAM/RHMA |
| CMSC | Mountain hemlock/oval-leaf blueberry | TSME/VAOV |
| CP | Ponderosa pine-Jeffrey pine | PIPO-PIJE |
| CPC0 | Ponderosa pine-Jeffrey pine-conifer | PIPO-PIJE-2TE |
| CPC1 | Ponderosa pine-incense cedar | PIPO-CADE27 |
| CPC2 | Ponderosa pine-western juniper | PIPO-JUOC |
| CPC211 | Ponderosa pine-western juniper/curl-leaf mountain mahogany-antelope bitterbrush-basin big sagebrush/Idaho fescue | PIPO-JUOC/CELE3-PUTR2-ARTRT/FEID |
| CPC3 | Ponderosa pine-lodgepole pine | PIPO-PICO |
| CPC4 | Jeffrey pine | PIJE |
| CPC411 | Ponderosa pine-Douglas-fir | PIPO-PSME |
| CPC5 | Jeffrey pine-western white pine | PIJE-PIMO3 |
| CPC511 | Jeffrey pine-western white pine | PIJE-PIMO |
| CPC6 | Ponderosa pine-Douglas-fir | PIPO-PSME |
| CPC611 | Ponderosa pine-Douglas-fir/old man's whiskers-mule-ears | PIPO-PSME/GETR-WYAM |
| CPC612 | Ponderosa pine-Douglas-fir/antelope bitterbrush | PIPO-PSME/PUTR2 |
| CPC613 | Ponderosa pine-Douglas-fir/greenleaf manzanita-snowbrush ceanothus | PIPO-PSME/ARPA6-CEVE |
| CPC614 | Ponderosa pine-Douglas-fir/snowberry | PIPO-PSME/SYMPH |
| CPF0 | Ponderosa pine-Jeffrey pine/forb-grass | PIPO-PIJE/2FORB-2GRAM |
| CPF111 | Ponderosa pine/woolly mule-ears | PIPO/WYMO |
| CPF121 | Ponderosa pine/old man’s whiskers-mule-ears | PIPO/GETR-WYAM |
| CPG0 | Ponderosa pine-Jeffrey pine/grass | PIPO-PIJE/2GRAM |
| CPG1 | Ponderosa pine/bunchgrass (non pumice) | PIPO/2GRAM |
| CPG111 | ponderosa pine/bluebunch wheatgrass (Blue Mountains) | PIPO/PSSPS |
| CPG112 | Ponderosa pine/Idaho fescue (Blue Mountains) | PIPO/FEID |
| CPG121 | Ponderosa pine/bluebunch wheatgrass (Daubenmeir) | PIPO/PSSPS |
| CPG122 | Ponderosa pine/Idaho fescue (Daubenmeir) | PIPO/FEID |
| CPG123 | Ponderosa pine/western needlegrass (Daubenmeir) | PIPO/ACOCO |
| CPG124 | Ponderosa pine/western needlegrass (Idaho) | PIPO/ACOCO |
| CPG131 | Ponderosa pine/Idaho fescue (Wallowa) | PIPO/FEID |
| CPG132 | Ponderosa pine/bluebunch wheatgrass (Wallowa) | PIPO/PSSPS |
| CPG133 | Ponderosa pine/Idaho fescue (Idaho) | PIPO/FEID |
| CPG134 | Ponderosa pine/bluebunch wheatgrass (Idhao) | PIPO/PSSPS |
| CPG141 | Ponderosa pine/bluebunch wheatgrass (Wenatchee) | PIPO/PSSPS |
| CPG142 | Ponderosa pine/bluebunch wheatgrass-Indian's dream | PIPO/PSSPS-ASDE6 |
| CPG2 | Ponderosa pine/grass-sedge | PIPO/2GRAM-CAREX |
| CPG212 | Ponderosa pine/long-stolon sedge-Idaho fescue-Nevada pea | PIPO/CAIN9-FEID-LALA3 |
| CPG221 | Ponderosa pine/pinegrass | PIPO/CARU |
| CPG222 | Ponderosa pine/Geyer’s sedge | PIPO/CAGE2 |
| CPG231 | Ponderosa pine/pinegrass-bluebunch wheatgrass | PIPO/CARU-PSSPS |
| CPG3 | Ponderosa pine/bluebunch wheatgrass (pumice soil) | PIPO/PSSP6 |
| CPG311 | Ponderosa pine/antelope bitterbrush-Idaho fescue (underburn) | PIPO/PUTR2-FEID |
| CPG6 | Jeffrey pine/bunchgrass (serpentine) | PIJE/2GRAM |
| CPH0 | Ponderosa pine-Jeffrey pine-hardwoods | PIPO-PIJE-2TD |
| CPH1 | Ponderosa pine-Jeffrey pine-madrone-manzanita | PIPO-PIJE-ARBUT-ARCTO3 |
| CPH2 | Ponderosa pine-Jeffrey pine-white oak-black oak | PIPO-PIJE-QUGA4-QUKE |
| CPH211 | Ponderosa pine-Oregon white oak/arrowleaf balsamroot | PIPO-QUGA4/BASA3 |
| CPH212 | Ponderosa pine-Oregon white oak/antelope bitterbrush | PIPO-QUGA4/PUTR2 |
| CPH3 | Ponderosa pine-Jeffrey pine-quaking aspen | PIPO-PIJE-POTR5 |
| CPH311 | Ponderosa pine-quaking aspen/Wheeler bluegrass | PIPO-POTR5/PONE2 |
| CPH4 | Jeffrey pine-oak | PIJE-QUERC |
| CPH411 | Jeffrey pine/huckleberry oak | PIJE/QUVA |
| CPM0 | Ponderosa pine-Jeffrey pine (wetlands,moist to wet soil) | PIPO-PIJE |
| CPM1 | Ponderosa pine-Jeffrey pine/blue wildrye-Kentucky bluegrass | PIPO-PIJE/ELGL-POPR |
| CPM111 | Ponderosa pine/blue wildrye | PIPO/ELGL |
| CPM112 | Ponderosa pine/Kentucky bluegrass | PIPO/POPR |
| CPRR | Ponderosa pine (rocky, little ground vegetation) | PIPO |
| CPRS | Ponderosa pine (steep, little ground vegetation) | PIPO |
| CPRX | Ponderosa pine (rocky or steep, little ground vegetation) | PIPO |
| CPS0 | Ponderosa pine-Jeffrey pine/shrub | PIPO-PIJE/2SHRUB |
| CPS1 | Ponderosa pine-Jeffrey pine/big sagebrush | PIPO-PIJE/ARTR2 |
| CPS111 | Ponderosa pine/antelope bitterbrush-big sagebrush/Idaho fescue | PIPO/PUTR2-ARTR2/FEID |
| CPS112 | Ponderosa pine/antelope bitterbrush-big sagebrush/squirreltail (rhyolite) | PIPO/PUTR2-ARTR2/ELELE |
| CPS121 | Ponderosa pine/mountain big sagebrush/Wheeler bluegrass | PIPO/ARTRV/PONE2 |
| CPS131 | Ponderosa pine/mountain big sagebrush/Idaho fescue-bluebunch wheatgrass | PIPO/ARTRV/FEID-PSSPS |
| CPS2 | Ponderosa pine-Jeffrey pine/antelope bitterbrush-mountain mahogany | PIPO-PIJE/PUTR2-CERCO |
| CPS211 | Ponderosa pine/antelope bitterbrush/Idaho fescue (pumice) | PIPO/PUTR2/FEID |
| CPS212 | Ponderosa pine/antelope bitterbrush/western needlegrass (pumice) | PIPO/PUTR2/ACOCO |
| CPS213 | Ponderosa pine/antelope bitterbrush-greenleaf manzanita/western needlegrass (pumice) | PIPO/PUTR2-ARPA6/ACOCO |
| CPS214 | Ponderosa pine/antelope bitterbrush-greenleaf manzanita/long-stolon sedge (pumice) | PIPO/PUTR2-ARPA6/CAIN9 |
| CPS215 | Ponderosa pine/antelope bitterbrush/long-stolon sedge (pumice) | PIPO/PUTR2/CAIN9 |
| CPS216 | Ponderosa pine/antelope bitterbrush/Idaho fescue-bluebunch wheatgrass (pumice) | PIPO/PUTR2/FEID-PSSPS |
| CPS217 | Ponderosa pine/antelope bitterbrush-greenleaf manzanita/Idaho fescue (pumice) | PIPO/PUTR2-ARPA6/FEID |
| CPS218 | Ponderosa pine/antelope bitterbrush/squirreltail (rhyolite) | PIPO/PUTR2/ELELE |
| CPS221 | Ponderosa pine/antelope bitterbrush/Ross’ sedge | PIPO/PUTR2/CARO5 |
| CPS222 | Ponderosa pine/antelope bitterbrush/Geyer’s sedge | PIPO/PUTR2/CAGE2 |
| CPS223 | Ponderosa pine/antelope bitterbrush/Idaho fescue (pumice) | PIPO/PUTR2/FEID |
| CPS224 | Ponderosa pine/antelope bitterbrush-greenleaf manzanita/Idaho fescue (pumice) | PIPO/PUTR2-ARPA6/FEID |
| CPS226 | Ponderosa pine/antelope bitterbrush/Idaho fescue-bluebunch wheatgrass | PIPO/PUTR2/FEID-PSSPS |
| CPS227 | Ponderosa pine/antelope bitterbrush (Idaho) | PIPO/PUTR2 |
| CPS228 | Ponderosa pine/antelope bitterbrush-greenleaf manzanita | PIPO/PUTR2-ARPA6 |
| CPS231 | Ponderosa pine/antelope bitterbrush/bluebunch wheatgrass | PIPO/PUTR2/PSSPS |
| CPS232 | Ponderosa pine/curl-leaf mountain mahogany/Geyer’s sedge | PIPO/CELE3/CAGE2 |
| CPS233 | Ponderosa pine/curl-leaf mountain mahogany/Wheeler bluegrass | PIPO/CELE3/PONE2 |
| CPS234 | Ponderosa pine/curl-leaf mountain mahogany/Idaho fescue-bluebunch wheatgrass | PIPO/CELE3/FEID-PSSPS |
| CPS241 | Ponderosa pine/antelope bitterbrush/bluebunch wheatgrass | PIPO/PUTR2/PSSPS |
| CPS3 | Ponderosa pine/snowbrush ceanothus/Idaho fescue | PIPO/CEVE/FEID |
| CPS311 | Ponderosa pine/antelope bitterbrush-snowbrush ceanothus/western needlegrass (pumice) | PIPO/PUTR2-CEVE/ACOCO |
| CPS312 | Ponderosa pine/antelope bitterbrush-snowbrush ceanothus/long-stolon sedge (pumice) | PIPO/PUTR2-CEVE/CAIN9 |
| CPS314 | Ponderosa pine/antelope bitterbrush-snowbrush ceanothus/Idaho fescue | PIPO/PUTR2-CEVE/FEID |
| CPS321 | Jeffrey pine/dwarf ceanothus | PIJE/CEPU |
| CPS4 | Ponderosa pine/oceanspray-common snowberry-cherry | PIPO/HODI-SYAL-PRUNU |
| CPS5 | Ponderosa pine/common snowberry-rose spiraea | PIPO/SYAL-SPDO |
| CPS511 | Ponderosa pine/common snowberry (floodplain) | PIPO/SYAL |
| CPS512 | Ponderosa pine-mixed conifer/rose spirea-common snowberry | PIPO-2TE/SPDO-SYAL |
| CPS521 | Ponderosa pine/common snowberry (Daubenmeir) | PIPO/SYAL |
| CPS522 | Ponderosa pine/common snowberry (Wallowa) | PIPO/SYAL |
| CPS523 | Ponderosa pine/white spirea | PIPO/SPBE2 |
| CPS524 | Ponderosa pine/common snowberry | PIPO/SYAL |
| CPS525 | Ponderosa pine/mountain snowberry | PIPO/SYOR2 |
| CPS526 | Ponderosa pine/mountain snowberry (Idaho) | PIPO/SYOR2 |
| CPS527 | Ponderosa pine/common snowberry (Idaho) | PIPO/SYAL |
| CPS6 | Ponderosa pine/manzanita-deerbrush | PIPO/ARCTO3-CEIN3 |
| CPS611 | Jeffrey pine/grass | PIJE/GRASS |
| CPS7 | Ponderosa pine/mallow ninebark | PIPO/PHMA5 |
| CPS721 | Ponderosa pine/mallow ninebark (Daubenmeir) | PIPO/PHMA5 |
| CPX104 | Malheur(04) 6A: slope-30%, CPG1 12, CPS2 21, CPM1 11, CDG1 11 | n/a |
| CPX120 | Winema(20): CPS2 11, CPG3 11 | n/a |
| CPX204 | Malheur(04) 6B: 30-70%, CPG1 12, CPS2 21, CPM1 11, CDG1 11 | n/a |
| CPX220 | Winema(20): CPS2 12, CPS2 13, CPS3 11 | n/a |
| CPX304 | Malheur(04) 6C: 30-70%, tuff, CPG1 11, CPS2 21, CPM1 11, CDG1 11 | n/a |
| CPX320 | Winema(20): CPS2 13, CPS2 15, CPS3 12, CPS2 13, CWS1 12 | n/a |
| CPX404 | Malheur(04) 6D: less 30%, SERP, CPG1 11, CPS2 21, CPM1 11, CDG1 11 | n/a |
| CPX420 | Winema(20) CPS3, CPS6 | n/a |
| CPX504 | Malheur(04) 6E: 30-70%, serp, CPG1 11, CPS2 21, CPM1 11, CDG1 11 | n/a |
| CPX520 | Winema(20): CPC2 | n/a |
| CPY104 | Malheur(04):6f:slope less than 30% | n/a |
| CQ | Western white pine-sugar pine | PIMO3-PILA |
| CQF111 | Western white pine/common beargrass | PIMO/XETE |
| CR | Shasta red fir | ABSH |
| CRC0 | Shasta red fir with associated conifers | ABSH-2TE |
| CRC1 | Shasta red fir-incense cedar | ABSH-CADE27 |
| CRC2 | Shasta red fir-Alaska cedar | ABSH-CHNO |
| CRC3 | Shasta red fir-white fir | ABSH-ABCO |
| CRF0 | Shasta red fir/forb | ABSH/2FORB |
| CRF1 | Shasta red fir/wintergreen-prince’s pine | ABSH/PYROL-CHIMA |
| CRF2 | Shasta red fir/grass-forb | ABSH/2GRAM-2FORB |
| CRF211 | Shasta red fir/skunk-leaved polemonium | ABMAS/POPU |
| CRG0 | Shasta red fir/grass-sedge | ABSH/2GRAM-CAREX |
| CRG111 | Shasta red fir/long-stolon sedge | ABSH/CAIN9 |
| CRH0 | Shasta red fir with important associated hardwoods | ABSH-2TD |
| CRH1 | Shasta red fir/deer oak | ABSH/QUSA2 |
| CRH111 | Shasta red fir/Sadler oak | ABMAS/QUSA |
| CRS0 | Shasta red fir/shrub | ABSH/2SHRUB |
| CRS1 | Shasta red fir/grouse whortleberry/pinemat manzanita | ABSH/VASC/ARNE |
| CRS111 | Shasta red fir/pinemat manzanita | ABSH/ARNE |
| CRS112 | Shasta red fir-mountain hemlock/pinemat manzanita/long-stolon sedge | ABSH-TSME/ARNE/CAIN9 |
| CRS2 | Shasta red fir/blackberry-common snowberry | ABSH/RUBUS-SYAL |
| CRS211 | Shasta red fir/creeping snowberry | ABMAS/SYMO |
| CRS3 | Shasta red fir/giant chinquapin | ABSH/CHCHC4 |
| CRS311 | Shasta red fir/giant chinquapin/pipsissewa-long-stolon sedge | ABSH/CHCHC4/CHUM-CAIN9 |
| CRS313 | Shasta red fir/giant chinquapin/pipsissewa-long-stolon sedge | ABSH/CHCHC4/CHUM-CAIN9 |
| CRS4 | Shasta red fir/blueberry-buffaloberry-rusty menziesia | ABSH/VACCI-SHEPH-MEFE |
| CRS411 | Shasta red fir/thin-leaved huckleberry | ABMAS/VAME |
| CS | Sitka spruce | PISI |
| CSC0 | Sitka spruce with associated conifers | PISI-2TE |
| CSF0 | Sitka spruce/forb | PISI/2FORB |
| CSF1 | Sitka spruce/western swordfern | PISI/POMU |
| CSF111 | Sitka spruce/western swordfern-redwood-sorrel | PISI/POMU-OXOR |
| CSF121 | Sitka spruce/western swordfern | PISI/POMU |
| CSF2 | Sitka spruce/ladyfern-twistedstalk | PISI/ATHYR-STREP3 |
| CSF3 | Sitka spruce/redwood-sorrel | PISI/OXOR |
| CSF321 | Sitka spruce/redwood-sorrel | PISI/OXOR |
| CSH0 | Sitka spruce with important associated hardwoods | PISI-2TD |
| CSH1 | Sitka spruce/California laurel | PISI/UMCA |
| CSH2 | Sitka spruce/elderberry | PISI/SAMBU |
| CSH3 | Sitka spruce/bigleaf maple | PISI/ACMA3 |
| CSM0 | Sitka spruce (wetland, moist to wet soil) | PISI |
| CSM1 | Sitka spruce/willow-California wax myrtle | PISI/SALIX-MOCA6 |
| CSS0 | Sitka spruce/shrub | PISI/2SHRUB |
| CSS1 | Sitka spruce/California huckleberry | PISI/VAOV2 |
| CSS2 | Sitka spruce/red huckleberry | PISI/VAPA |
| CSS221 | Sitka spruce/rusty menziesia-red huckleberry | PISI/MEFE-VAPA |
| CSS3 | Sitka spruce/salal | PISI/GASH |
| CSS321 | Sitka spruce/salal | PISI/GASH |
| CSS4 | Sitka spruce/rhododendron | PISI/RHODO |
| CSS411 | Sitka spruce-Douglas-fir/rhododendron-California huckleberry (stabilized dune) | PISI-PSME/RHODO-VAOV2 |
| CSS412 | Sitka spruce-lodgepole pine-western hemlock/rhododendron (flood plain) | PISI-PICO-TSHE/RHODO |
| CSS421 | Sitka spruce-Douglas-fir/rhododendron-California huckleberry (sandy, steep) | PISI-PSME/RHODO-VAOV2 |
| CSS422 | Sitka spruce-Douglas-fir/rhododendron-California huckleberry (sandy, gentle) | PISI-PSME/RHODO-VAOV2 |
| CSS5 | Sitka spruce/thimbleberry-salmonberry | PISI/RUPA-RUSP |
| CSS521 | Sitka spruce/salmonberry | PISI/RUSP |
| CSS522 | Sitka spruce/salmonberry-salal | PISI/RUSP-GASH |
| CSS6 | Sitka spruce/devilsclub | PISI/OPHO |
| CSS621 | Sitka spruce/devilsclub | PISI/OPHO |
| CSS7 | Sitka spruce/vine maple | PISI/ACCI |
| CT | Port Orford cedar | CHLA |
| CTH0 | Port Orford cedar-hardwoods | CHLA-2TD |
| CTH1 | Port Orford cedar/oak | CHLA/QUERC |
| CTH2 | Port Orford cedar/bigleaf maple | CHLA/ACMA3 |
| CTH211 | Port Orford cedar-bigleaf maple | CHLA-ACMA |
| CTS0 | Port Orford cedar-shrub | CHLA-2SHRUB |
| CTS1 | Port Orford cedar/Cascade barberry | CHLA/MANE2 |
| CTS112 | Port Orford cedar/dwarf Oregon grape/western twinflower | CHLA/BENE/LIBOL |
| CTS2 | Port Orford cedar/salal | CHLA/GASH |
| CTS211 | Port Orford cedar/salal | CHLA/GASH |
| CTS3 | Port Orford cedar/silktassel | CHLA/GARRY |
| CTS311 | Port Orford cedar/box-leaved silk-tassel | CHLA/GABU |
| CW | White fir-grand fir | ABCO-ABGR |
| CWC0 | White fir-grand fir-associated conifers | ABCO-ABGR-2TE |
| CWC1 | White fir-incense cedar-ponderosa pine | ABCO-CADE27-PIPO |
| CWC111 | White fir-ponderosa pine-incense cedar/Saskatoon serviceberry | ABCO-PIPO-CADE27/AMAL2 |
| CWC135 | White fir-incense cedar/dwarf Oregon grape | ABCO-CADE3/BENE |
| CWC2 | White fir-Douglas-fir-ponderosa pine (southwest Oregon, hot) | ABCO-PSME-PIPO |
| CWC211 | White fir-Douglas-fir/snowbrush ceanothus-giant chinquapin/western brackenfern | ABCO-PSME/CEVE-CHCHC4/PTAQ |
| CWC212 | White fir-Douglas-fir/snowbrush ceanothus-giant chinquapin/pinegrass | ABCO-PSME/CEVE-CHCHC4/CARU |
| CWC213 | White fir/snowbrush ceanothus/long-stolon sedge-hairy brackenfern | ABCO/CEVE/CAIN9-PTAQP2 |
| CWC214 | White fir-Douglas-fir/snowbush ceanothus/kinnikinnick | ABCO-PSME/CEVE/ARUV |
| CWC215 | White fir-Douglas-fir/snowbush ceanothus/kinnikinnick | ABCO-PSME/CEVE/ARUV |
| CWC231 | White fir-Douglas-fir/dwarf Oregon grape | ABCO-PSME/BENE |
| CWC232 | White fir-Douglas-fir/creambush oceanspray | ABCO-PSME/HODI |
| CWC233 | White fir-Douglas-fir/Depauperate | ABCO-PSME/DEPAUPERATE |
| CWC234 | White fir-Douglas-fir/Piper's Oregon grape | ABCO-PSME/BEPI |
| CWC241 | White fir-ponderosa pine | ABCO-PIPO |
| CWC3 | White fir-lodgepole pine (lodgepole reproducing) | ABCO-PICO |
| CWC311 | White fir-lodgepole pine/long-stolon sedge-western needlegrass | ABCO-PICO/CAIN9-ACOCO |
| CWC321 | White fir-lodgepole pine/western serviceberry | ABCO-PICO/AMAL |
| CWC4 | White fir-ponderosa pine-western white pine-sugar pine (no Douglas-fir) | ABCO-PIPO-PIMO3-PILA |
| CWC411 | White fir-ponderosa pine-sugar pine/sticky currant | ABCO-PIPO-PILA/RIVI3 |
| CWC412 | White fir-ponderosa pine-sugar pine/greenleaf manzanita | ABCO-PIPO-PILA/ARPA6 |
| CWC5 | White fir-grand fir/Engelmann spruce-Brewer spruce | ABCO-ABGR/PIEN-PIBR |
| CWC511 | Wrand fir-Engelmann spruce/starry false lily of the valley | ABGR-PIEN/MAST4 |
| CWC522 | White fir-Brewer spruce/slender salal | ABCO-PIBR/GAOV |
| CWC523 | White fir-Brewer spruce/common prince’s-pine | ABCO-PIBR/CHUM |
| CWC6 | White fir-Port-Orford-cedar (southwest Oregon, mesic) | ABCO-CHLA |
| CWC7 | White fir-grand fir-Shasta red fir-Pacific silver fir | ABCO-ABGR-ABSH-ABAM |
| CWC725 | White fir-Shasta red fir/common prince’s-pine | ABCO-ABMAS/CHUM |
| CWC731 | White fir-mountain hemlock/western twinflower | ABCO-TSME/LIBOL |
| CWC741 | White fir-Pacific silver fir/dwarf Oregon grape | ABCO-ABAM/BENE |
| CWC8 | White fir-grand fir/Pacific yew | ABCO-ABGR/TABR2 |
| CWC811 | Grand fir/Pacific yew/bride’s bonnet | ABGR/TABR2/CLUN2 |
| CWC812 | Grand fir/Pacific yew/twinflower | ABGR/TABR2/LIBO3 |
| CWC9 | White fir-grand fir-Engelmann spruce | ABCO-ABGR-PIEN |
| CWC911 | Engelmann spruce (bottoms) | PIEN |
| CWC921 | White fir-western hemlock/vine maple | ABCO-TSHE/ACCI |
| CWF0 | White fir-grand fir/forb | ABCO-ABGR/2FORB |
| CWF1 | White fir/sweet after death-oneleaf foamflower | ABCO/ACTR-TITRU |
| CWF2 | White fir/wintergreen-pipsissewa | ABCO/PYROL-CHUM |
| CWF211 | Grand fir/pipsissewa | ABGR/CHUM |
| CWF221 | White fir/common prince’s-pine/pyrola | ABCO/CHUM/PYROLA |
| CWF3 | White fir-grand fir/twinflower | ABCO-ABGR/LIBO3 |
| CWF311 | Grand fir/twinflower-forb | ABGR/LIBO3-2FORB |
| CWF312 | Grand fir/twinflower (Blue Mountains) | ABGR/LIBO3 |
| CWF313 | Grand fir/twinflower (Idaho) | ABGR/LIBO3 |
| CWF321 | Grand fir/twinflower | ABGR/LIBO3 |
| CWF4 | White fir-grand fir/bride’s bonnet/low forb | ABCO-ABGR/CLUN2/2FORB |
| CWF421 | Grand fir/bride’s bonnet (Wallowa) | ABGR/CLUN2 |
| CWF422 | Grand fir/Pacific yew/bride’s bonnet | ABGR/TABR2/CLUN2 |
| CWF423 | Grand fir/bride’s bonnet (Idaho) | ABGR/CLUN2 |
| CWF431 | White fir/bride’s bonnet | ABCO/CLUN2 |
| CWF444 | Grand fir/heartleaf arnica | ABGR/ARCO9 |
| CWF5 | White fir-grand fir/mid-forbs | ABCO-ABGR/2FORB |
| CWF511 | Grand fir/Idaho goldthread | ABGR/COOC |
| CWF512 | Grand fir/Carolina bugbane | ABGR/TRCA |
| CWF521 | Grand fir/broadleaf starflower | ABGR/TRBOL |
| CWF522 | Grand fir/sweet after death | ABGR/ACTR |
| CWF523 | Grand fir/Jacob’s-ladder | ABGR/POPU3 |
| CWF524 | Grand fir/sweet after death (Wenatchee) | ABGR/ACTR |
| CWF531 | Grand fir/common beargrass | ABGR/XETE |
| CWF532 | Grand fir/Oregon goldthread (Idaho) | ABGR/COLA3 |
| CWF6 | Grand fir-white fir/fern | ABGR-ABCO/2FERN |
| CWF611 | Grand fir/western oakfern | ABGR/GYDR |
| CWF612 | Grand fir/western swordfern-British Columbia wildginger | ABGR/POMU-ASCA2 |
| CWF613 | Grand fir/common ladyfern | ABGR/ATFI |
| CWF911 | White fir/herb | ABCO/HERB |
| CWFC | White fir/forb (cool) | ABCO/2FORB |
| CWFM | White fir/forb (mesic) | ABCO/2FORB |
| CWG0 | White fir-grand fir/grass | ABCO-ABGR/2GRAM |
| CWG1 | Grand fir/pinegrass-Geyer’s sedge | ABGR/CARU-CAGE2 |
| CWG111 | Grand fir/Geyer’s sedge (Blue Mountains) | ABGR/CAGE2 |
| CWG112 | Grand fir/pinegrass (ash) | ABGR/CARU |
| CWG113 | Grand fir/pinegrass (Blue Mountains) | ABGR/CARU |
| CWG114 | Grand fir/pinegrass (Idaho) | ABGR/CARU |
| CWG121 | Grand fir/Geyer’s sedge | ABGR/CAGE2 |
| CWG122 | Grand fir/Geyer’s sedge (Gifford Pinchot) | ABGR/CAGE2 |
| CWG123 | Grand fir/pinegrass | ABGR/CARU |
| CWG124 | Grand fir/pinegrass (Wenatchee) | ABGR/CARU |
| CWG125 | Grand fir/pinegrass-lupine | ABGR/CARU-LUPIN |
| CWG2 | White fir-grand fir/Columbia brome | ABCO-ABGR/BRVU |
| CWG211 | Grand fir/Columbia brome | ABGR/BRVU |
| CWH0 | White fir-grand fir-hardwoods | ABCO-ABGR-2TD |
| CWH1 | White fir-grand fir/giant chinquapin | ABCO-ABGR/CHCHC4 |
| CWH111 | White fir/snowbrush ceanothus-giant chinquapin | ABCO/CEVE-CHCHC4 |
| CWH112 | White fir/giant chinquapin-Oregon boxleaf/pipsissewa | ABCO/CHCHC4-PAMY/CHUM |
| CWH2 | White fir-grand fir-quaking aspen | ABCO-ABGR-POTR5 |
| CWH211 | White fir-ponderosa pine-quaking aspen/long-stolon sedge | ABCO-PIPO-POTR5/CAIN9 |
| CWH3 | White fir/tanoak-canyon live oak | ABCO/LIDE3-QUCH2 |
| CWH312 | White fir-tanoak | ABCO-LIDE3 |
| CWH4 | White fir-grand fir/vine maple-Rocky Mountain maple-dogwood | ABCO-ABGR/ACCI-ACGLD4-CORNU |
| CWH411 | White fir/vine maple/vanillaleaf | ABCO/ACCI/ACTR |
| CWH413 | White fir/Douglas maple | ABCO/ACGL |
| CWH421 | White fir/Douglas maple/dwarf Oregon grape | ABCO/ACGL/BENE |
| CWH5 | White fir/deer oak | ABCO/QUSA2 |
| CWH511 | White fir-Sadler oak/common prince’s-pine | ABCO-QUSA/CHUM |
| CWH521 | White fir-Sadler oak/dwarf Oregon grape-Oregon boxwood | ABCO-QUSA/BENE-PAMY |
| CWH522 | White fir-Sadler oak/dwarf Oregon grape | ABCO-QUSA/BENE |
| CWH531 | White fir-Sadler oak-golden chinquapin | ABCO-QUSA-CACH |
| CWM0 | White fir-grand fir (bottomlands) | ABCO-ABGR |
| CWM1 | White fir/thinleaf alder/snowberry (bottomlands) | ABCO/ALINT/GAULT |
| CWM111 | White fir/thinleaf alder (meadow) | ABCO/ALINT |
| CWM2 | Grand fir-white fir/forb (bottomlands) | ABGR-ABCO/2FORB |
| CWM210 | Grand fir-western red cedar/American skunkcabbage | ABGR-THPL/LYAM3 |
| CWS0 | White fir-grand fir/shrub | ABCO-ABGR/2SHRUB |
| CWS1 | White fir-grand fir/snowbrush ceanothus-greenleaf manzanita | ABCO-ABGR/CEVE-ARPA6 |
| CWS112 | White fir/snowbrush ceanothus-greenleaf manzanita (pumice) | ABCO/CEVE-ARPA6 |
| CWS113 | White fir/snowbrush ceanothus-greenleaf manzanita/long-stolon sedge-glaucus beardtongue | ABCO/CEVE-ARPA6/CAIN9-PEEU |
| CWS114 | White fir/snowbrush ceanothus (pumice) | ABCO/CEVE |
| CWS115 | White fir/snowbrush ceanothus/long-stolon sedge | ABCO/CEVE/CAIN9 |
| CWS116 | White fir/snowbrush ceanothus-squawcarpet/Virginia strawberry | ABCO/CEVE-CEPR/FRVI |
| CWS117 | White fir-ponderosa pine/greenleaf manzanita-creeping barberry | ABCO-PIPO/ARPA6-MARE11 |
| CWS121 | Grand fir/snowbrush ceanothus (Warm Springs) | ABGR/CEVE |
| CWS2 | White fir-grand fir/thinleaf huckleberry-creeping barberry | ABCO-ABGR/VAME-MARE11 |
| CWS211 | Grand fir/thinleaf huckleberry | ABGR/VAME |
| CWS212 | Grand fir/thinleaf huckleberry (Blue Mountains) | ABGR/VAME |
| CWS213 | Grand fir/thinleaf huckleberry (Warm Springs) | ABGR/VAME |
| CWS214 | Grand fir/thinleaf huckleberry/bride’s bonnet (Colville) | ABGR/VAME/CLUN2 |
| CWS221 | Grand fir/thinleaf huckleberry/twinflower | ABGR/VAME/LIBO3 |
| CWS222 | Grand fir/thinleaf huckleberry/bride’s bonnet | ABGR/VAME/CLUN2 |
| CWS223 | Grand fir/thimbleberry/drops of gold | ABGR/RUPA/DIHO3 |
| CWS224 | Grand fir/Cascade barberry/sweet after death | ABGR/MANE2/ACTR |
| CWS225 | Grand fir/Cascade barberry | ABGR/MANE2 |
| CWS226 | Grand fir/Cascade barberry/pinegrass | ABGR/MANE2/CARU |
| CWS231 | Grand fir/thinleaf huckleberry | ABGR/VAME |
| CWS232 | White fir/thin-leaved huckleberry/western twinflower | ABCO/VAME/LIBOL |
| CWS3 | White fir-grand fir/white spirea-common snowberry (mesic) | ABCO-ABGR/SPBE2-SYAL |
| CWS311 | White fir-grand fir/giant chinquapin | ABCO-ABGR/CHCHC4 |
| CWS312 | White fir/common snowberry/Virginia strawberry | ABCO/SYAL/FRVI |
| CWS313 | White fir-ponderosa pine/common snowberry/tuber starwort | ABCO-PIPO/SYAL/PSJA2 |
| CWS314 | Grand fir/common snowberry (floodplain) | ABGR/SYAL |
| CWS321 | Grand fir/white spirea | ABGR/SPBE2 |
| CWS322 | Grand fir/white spirea (Blue Mountains) | ABGR/SPBE2 |
| CWS323 | Grand fir/white spirea (Idaho) | ABGR/SPBE2 |
| CWS331 | Grand fir/snowberry | ABGR/SYMPH |
| CWS332 | Grand fir/creeping snowberry/sweet after death | ABGR/SYMO/ACTR |
| CWS333 | Grand fir/snowberry (Warm Springs) | ABGR/SYMPH |
| CWS334 | Grand fir/snowberry/Geyer’s sedge | ABGR/SYMPH/CAGE2 |
| CWS335 | Grand fir/shinyleaf spirea/western brackenfern | ABGR/SPBEL/PTAQ |
| CWS336 | Grand fir/common snowberry/pinegrass | ABGR/SYAL/CARU |
| CWS337 | Grand fir/mountain snowberry | ABGR/SYOR2 |
| CWS338 | Grand fir/pinemat manzanita | ABGR/ARNE |
| CWS4 | White fir-grand fir/mallow ninebark | ABCO-ABGR/PHMA5 |
| CWS412 | Grand fir/Rocky Mountain maple-mallow ninebark | ABGR/ACGL-PHMA5 |
| CWS421 | Grand fir/mallow ninebark | ABGR/PHMA5 |
| CWS422 | Grand fir/Douglas maple/bride’s bonnet | ABGR/ACGLD4/CLUN2 |
| CWS5 | White fir-grand fir/oceanspray-Cascade barberry-vine maple-salal | ABCO-ABGR/HODI-MANE2-ACCI-GASH |
| CWS511 | White fir/oceanspray/desertparsley (steep shallow soil) | ABCO/HODI/LOMAT |
| CWS521 | Grand fir/kinnikinnick | ABGR/ARUV |
| CWS522 | Grand fir/Cascade barberry | ABGR/MANE2 |
| CWS531 | Grand fir/oceanspray | ABGR/HODI |
| CWS532 | Grand fir/vine maple/sweet after death | ABGR/ACCI/ACTR |
| CWS533 | Grand fir/giant chinquapin | ABGR/CHCHC4 |
| CWS534 | Grand fir/oceanspray (Gifford Pinchot) | ABGR/HODI |
| CWS535 | Grand fir/vine maple-hollyleaved barberry/broadleaf starflower | ABGR/ACCI-MAAQ2/TRBOL |
| CWS536 | Grand fir/beaked hazelnut/sweet after death | ABGR/COCO6/ACTR |
| CWS537 | Grand fir/Pacific dogwood/sweet after death | ABGR/CONU4/ACTR |
| CWS538 | Grand fir/vine maple | ABGR/ACCI |
| CWS541 | Grand fir/Rocky Mountain maple | ABGR/ACGL |
| CWS542 | Grand fir/Rocky Mountain maple (Idaho) | ABGR/ACGL |
| CWS543 | Grand fir/Rocky Mountain maple (floodplain) | ABGR/ACGL |
| CWS551 | Grand fir/vine maple (Wenatchee) | ABGR/ACCI |
| CWS552 | Grand fir/vine maple-pipsissewa | ABGR/ACCI-CHUM |
| CWS553 | Grand fir/vine maple/bride’s bonnet | ABGR/ACCI/CLUN2 |
| CWS554 | Grand fir/oceanspray/pinegrass | ABGR/HODI/CARU |
| CWS6 | White fir-grand fir/whipplea-roughfruit berry-poison oak | ABCO-ABGR/WHMO-RULA2-TOXIC |
| CWS7 | White fir-grand fir/Oregon boxleaf-serviceberry | ABCO-ABGR/PAMY-AMELA |
| CWS711 | Grand fir/Oregon boxleaf (Warm Springs) | ABGR/PAMY |
| CWS712 | Grand fir/Oregon boxleaf/pinegrass | ABGR/PAMY/CARU |
| CWS722 | Grand fir/Oregon boxleaf | ABGR/PAMY |
| CWS731 | White fir/western serviceberry/threeleaf anemone | ABCO/AMAL/ANDE |
| CWS8 | White fir-grand fir/grouse whortleberry | ABCO-ABGR/VASC |
| CWS811 | Grand fir/grouse whortleberry | ABGR/VASC |
| CWS812 | Grand fir/grouse whortleberry/twinflower | ABGR/VASC/LIBO3 |
| CWS821 | Grand fir/dwarf bilberry | ABGR/VACA13 |
| CWS822 | Grand fir/dwarf bilberry (Idaho) | ABGR/VACA13 |
| CWS911 | Engelmann spruce-white fir (bottoms) | PIEN-ABCO |
| CWS912 | Grand fir/Rocky Mountain maple | ABGR/ACGL |
| CWS931 | White fir/poison oak | ABCO/RHDI |
| CWSC | White fir/shrub (tall, cool) | ABCO/2SHRUB |
| CWSM | White fir/shrub (southwest Oregon, mesic) | ABCO/2SHRUB |
| CWX104 | Malheur(04) 3A: slope <30%, CWF311, CWS211, CWS811 | n/a |
| CWX120 | Winema(20): CWS112, CWS114 | n/a |
| CWX204 | Malheur (04) 3B: slope 30-70%, CWF311, CWS211, CWS811 | n/a |
| CWX220 | Winema(20): CWH111 | n/a |
| CWX320 | Winema(20): CLS311, CMS111, CRS111 | n/a |
| CWX420 | Winema(20): CWC1, CWC2, CWC9, CWH1, CWS1 | n/a |
| CWY104 | Malheur(04) 5A: slope less 30%, CWG111, CWG112, CDS711 | n/a |
| CWY204 | Malheur(04) 5B: slope 30-70%, CWG111, CWG112, CDS711 | n/a |
| CWY304 | Malheur(04) 5C: <30%, serpen., CWG111, CWG112, CDS711 | n/a |
| CWY404 | Malheur(04) 5D: 30-70%, serpen, CWG111, CWG112, CDS711 | n/a |
| CX | Coniferous forest | 2TE |
| D | Desert | n/a |
| DC | Cold desert (freezing winters) | n/a |
| DC10 | Greasewood | SAVE4 |
| DC1121 | Greasewood/inland saltgrass | SAVE4/DISP |
| DC20 | Shadscale saltbrush | ATCO |
| DC30 | Winterfat | KRLA2 |
| DC40 | Spiny hopsage | GRSP |
| DC4121 | Spiny hopsage/Sandberg bluegrass | GRSP/POSE |
| DCC512 | Ponderosa pine-Douglas-fir/snowberry | PIPO-PSME/SYMPH |
| DE3121 | Winterfat/Sandberg bluegrass | KRLA2/POSE |
| DW | Warm desert |  |
| DX | Desert |  |
| F | Forbland | 2FORB |
| FM | Forb (moist, mesic, in forest zone) | 2FORB |
| FM10 | Western brackenfern-blackberry | PTAQ-RUBUS |
| FM20 | Common beargrass | XETE |
| FM2911 | Common beargrass-red fescue | XETE-FERU2 |
| FM30 | Forb-grass | 2FORB-2GRAM |
| FM3011 | Garden vetch-subalpine fleabane-blue wildrye | VISA-ERPE3-ELGL |
| FM80 | Forb (coastal) | 2FORB |
| FM88 | Lupine (coastal) | LUPIN |
| FM90 | Buckwheat (scabland) | ERIOG |
| FM9111 | Douglas’ buckwheat/Sandberg bluegrass | ERDO/POSE |
| FM9112 | Blue Mountain buckwheat/Sandberg bluegrass | ERST4/POSE |
| FM9113 | Sulphur-flower buckwheat (ridgetops) | ERUMM |
| FM9122 | Rock buckwheat/Sandberg bluegrass | ERSP7/POSE |
| FM9123 | Douglas’ buckwheat/Sandberg bluegrass | ERDO/POSE |
| FM9124 | Cutleaf daisy/Sandberg bluegrass | ERCO4/POSE |
| FM9125 | Thymeleaf buckwheat/Sandberg bluegrass | ERTH4/POSE |
| FM9911 | Common woolly sunflower-varileaf phacelia | ERLA6/PHHE2 |
| FS | Forb (subalpine and alpine) | 2FORB |
| FS10 | Valerian (subalpine) | VALER |
| FS20 | Lupine-Indian paintbrush-buttercup (subalpine, moist) | LUPIN-CASTI2-RANUN |
| FS30 | Saw-wort-seep monkeyflower-marsh marigold (subalpine-wet) | SAUSS-MIGU-CALTH |
| FS40 | Luetkea (subalpine) | LUETK |
| FS50 | Poke knotweed (subalpine) | POPH |
| FS5911 | Poke knotweed (alpine) | POPH |
| FS60 | Lupine-giant mountain aster-grass (subalpine) | LUPIN-CAMO32-2GRAM |
| FS70 | Pincushion plant (subalpine) | DILA |
| FW | Forb (wet meadows) | 2FORB |
| FW10 | Common cowparsnip (wetlands) | HEMA80 |
| FW20 | Thinleaf cottonsedge/sphagnum-sedge (wetlands) | ERVI9/SPHAG2-CAREX |
| FW2911 | Common beargrass-red fescue | XETE-FERU2 |
| FW30 | Cusick’s camas (wetlands) | CACU2 |
| FW3911 | Cusick’s camas (seepage) | CACU2 |
| FW40 | Arrowleaf ragwort-bride’s bonnet (wetlands) | SETR-CLUN2 |
| FW4111 | Bride’s bonnet-gray alder (wetland) | CLUN2/ALIN2 |
| FW4211 | Arrowleaf ragwort (wetland) | SETR |
| FW4212 | Field horsetail | EQAR |
| FW4213 | Northern maidenhair | ADPE |
| FW4221 | Northern maidenhair (Mt. Hood and Gifford Pinchot) | ADPE |
| FW4222 | Field horsetail (Mt. Hood and Gifford Pinchot) | EQAR |
| FW4223 | American skunkcabbage | LYAM3 |
| FW4224 | Seep monkeyflower | MIGU |
| FW4225 | Woodsorrel | OXALI |
| FW4226 | Arctic sweet coltsfoot | PEFR5 |
| FW4227 | Brook saxifrage-arrowleaf ragwort | SAOD2-SETR |
| FW4228 | Arrowleaf ragwort-giant mountain aster | SETR-CAMO32 |
| FW4229 | Coastal hedgenettle-common ladyfern | STCHC3-ATFI |
| FW4230 | Coastal hedgenettle-seep monkeyflower | STCHC3-MIGU |
| FW4231 | Coldwater fumewort | COCAA |
| FW50 | False hellebore (wetlands) | VERAT |
| FW5111 | False hellebore-common cowparsnip | VERAT-HEMA80 |
| FW5121 | California false hellebore | VECA2 |
| FX | Forb | 2FORB |
| FX4111 | Wallowa lewisia (rims) | LECOW |
| GA | Grass (annual vegetation) | 2GRAM |
| GA10 | Cheatgrass | BRTE |
| GA20 | Medusahead | TACA8 |
| GA30 | Dogtail | n/a |
| GA40 | Soft chess | BROMU |
| GB | Bluebunch wheatgrass | PSSP6 |
| GB11 | Fendler threeawn-sand dropseed | ARPUL/SPCR |
| GB1121 | Sand dropseed-Sandberg bluegrass | SPCR/POSE |
| GB1122 | Fendler threeawn-Sandberg bluegrass | ARPUL/POSE |
| GB1211 | Sand dropseed (river terrace) | SPCR |
| GB1911 | Bluebunch wheatgrass-sand dropseed-Fendler threeawn | PSSPS-SPCR-ARPUL |
| GB20 | Needle and thread | HECOC8 |
| GB2121 | Needle and thread-Sandberg bluegrass | HECOC8/POSE |
| GB2122 | Needle and thread-Sandberg bluegrass-snow buckwheat | HECOC8/POSE/ERNI2 |
| GB30 | Squirreltail | ELELE |
| GB40 | Bluebunch wheatgrass | PSSP6 |
| GB41 | Bluebunch wheatgrass | PSSPS |
| GB4111 | Bluebunch wheatgrass-parsnipflower buckwheat | PSSPS-ERHE2 |
| GB4112 | Bluebunch wheatgrass-Sandberg bluegrass-narrowleaf skullcap | PSSPS-POSE-SCAN3 |
| GB4113 | Bluebunch wheatgrass-Sandberg bluegrass (basalt) | PSSPS-POSE |
| GB4114 | Bluebunch wheatgrass-Sandberg bluegrass-Cusick’s milkvetch | PSSPS-POSE-ASCU5 |
| GB4115 | Bluebunch wheatgrass-Sandberg bluegrass-shaggy fleabane | PSSPS-POSE-ERPU2 |
| GB4116 | Bluebunch wheatgrass-Sandberg bluegrass (granite) | PSSPS-POSE |
| GB4117 | Bluebunch wheatgrass-Sandberg bluegrass-Snake River phlox | PSSPS-POSE-PHCO10 |
| GB4118 | Bluebunch wheatgrass-Sandberg bluegrass-plains pricklypear | PSSPS-POSE-OPPO |
| GB4121 | Bluebunch wheatgrass-Sandberg bluegrass | PSSP6-POSE |
| GB4122 | Bluebunch wheatgrass-Idaho fescue | PSSP6-FEID |
| GB42 | Bluebunch wheatgrass (seeded or native) | PSSP6 |
| GB43 | Crested wheatgrass (seeded) | AGCR |
| GB4911 | Bluebunch wheatgrass-Sandberg bluegrass-onespike danthonia (shallow soil, scabland) | PSSPS-POSE-DAUN |
| GB4912 | Bluebunch wheatgrass-Idaho fescue (deep soil, gentle slopes) | PSSPS-FEID |
| GB4913 | Bluebunch wheatgrass-Sandberg bluegrass (shallow soil, steep slopes) | PSSPS-POSE |
| GB4914 | Bluebunch wheatgrass-Idaho fescue (deep soil, steep slopes) | PSSPS-FEID |
| GB50 | Fescue | FESTU |
| GB5121 | Common snowberry/Idaho fescue/silky lupine | SYAL/FEID/LUSE4 |
| GB5122 | Idaho fescue-Nootka rose | FEID-RONU |
| GB5123 | Idaho fescue-houndstongue hawkweed | FEID-HICY |
| GB59 | Idaho fescue-bluebunch wheatgrass | FEID-PSSPS |
| GB5911 | Idaho fescue-prairie Junegrass (ridge) | FEID-KOMA |
| GB5912 | Idaho fescue-prairie Junegrass (mounds) | FEID-KOMA |
| GB5913 | Idaho fescue-prairie Junegrass (high elevation) | FEID-KOMA |
| GB5914 | Idaho fescue-prairie Junegrass (low elevation) | FEID-KOMA |
| GB5915 | Idaho fescue-bluebunch wheatgrass (ridge) | FEID-PSSPS |
| GB5916 | Idaho fescue-bluebunch wheatgrass-silky lupine | FEID-PSSPS-LUSE4 |
| GB5917 | Idaho fescue-bluebunch wheatgrass-arrowleaf balsamroot | FEID-PSSPS-BASA3 |
| GB5918 | Idaho fescue-bluebunch wheatgrass-Snake River phlox | FEID-PSSPS-PHCO10 |
| GB5919 | Common snowberry/Idaho fescue-prairie Junegrass | SYAL/FEID-KOMA |
| GB5920 | Idaho fescue-timber oatgrass-sedge | FEID-DAIN-CAREX |
| GB5921 | Idaho fescue-Hood’s sedge | FEID-CAHO5 |
| GB5922 | Idaho fescue-Geyer’s sedge | FEID-CAGE2 |
| GB60 | Rough fescue | FECA4 |
| GB70 | Giant wildrye | LECI4 |
| GB7111 | Basin wildrye | LECI4 |
| GB7121 | Basin wildrye/inland saltgrass | LECI4/DISP |
| GB90 | Bluebunch wheatgrass (scabland) | PSSP6 |
| GB9111 | Sandberg bluegrass-onespike danthonia | POSE-DAUN |
| GB99 | Sandberg bluegrass-onespike danthonia (scabland) | POSE-DAUN |
| GBB0 | Bluebunch wheatgrass (biscuit swale) | PSSP6 |
| GBB911 | Biscuit-scabland complex | n/a |
| GBB921 | Idaho fescue-prairie Junegrass/Sandberg bluegrass-onespike danthonia (mounds) | FEID-KOMA/POSE-DAUN |
| GBC0 | Bluebunch wheatgrass-scattered conifers | PSSP6-2TE |
| GBFX | Grass-forb (Snake River) | 2GRAM-2FORB |
| GBRR | Bluebunch wheatgrass (very rocky, little vegetation) | PSSP6 |
| GBRS | Bluebunch wheatgrass (steep, stony, little vegetation) | PSSP6 |
| GBRX | bluebunch wheatgrass (rocky or steep, little vegetation) | PSSP6 |
| GBS0 | bluebunch wheatgrass-shrub | PSSP6-2SHRUB |
| GBX104 | Malheur(04) 7A: slope less 30%, GB4911, GB4912 | n/a |
| GBX204 | Malheur(04) 7B: slope 30-70%, GB4913, GB4914 | n/a |
| GBX304 | Malheur(04) 7C: slope less 30%, serpentine, GB4911, GB4912 | n/a |
| GBX404 | Malheur(04) 7D: slope 30-70%, serpentine, GB4913, GB4914 | n/a |
| GM | Grass (moist, mesic, within forest zone) | 2GRAM |
| GM10 | Needlegrass (interior valley, Willamette, Puget Sound) | ACHNA |
| GM20 | Red fescue (interior valley, Willamette, Puget Sound; coastal) | FERU2 |
| GM30 | Oatgrass-needlegrass (interior valley) | ARRHE-ACHNA |
| GM40 | Grass (floodplain) | 2GRAM |
| GM4111 | Bluejoint | CACA4 |
| GM4112 | Blue wildrye | ELGL |
| GM4121 | Blue wildrye-bromegrass | ELGL-BROMU |
| GM80 | Grass (coastal) | 2GRAM |
| GMB9 | Puget mima mounds | n/a |
| GMC9 | Grass/scattered conifers (moist, mesic) | 2GRAM/2TE |
| GMFX | Grass-forb (mesic) | 2GRAM/2FORB |
| GR | Grass-sedge | 2GRAM/CAREX |
| GR10 | Sedge (low) | CAREX |
| GR20 | Blue grama | BOGR2 |
| GR30 | Inland saltgrass | DISP |
| GR3121 | Inland saltgrass | DISP |
| GR80 | Beachgrass | AMMOP |
| GR81 | Beachgrass (foredune, sandy dune geology) | AMMOP |
| GR8111 | Beachgrass (foredune) | AMMOP |
| GR82 | Beachgrass (hummocks, sand dune geology) | AMMOP |
| GR8211 | Beachgrass/lupine/bluegrass (hummocks, occasionally wet, dense) | AMMOP/LUPIN/POA |
| GR8212 | beachgrass/lupine (hummocks, occasionally wet, unstable, open) | AMMOP/LUPIN |
| GR8213 | Beachgrass/lupine/bluegrass (hummocks, dry, eroding) | AMMOP/LUPIN/POA |
| GR83 | Beachgrass (dune slip face) | AMMOP |
| GR8311 | Beachgrass (dune slip face, stabilized) | AMMOP |
| GS | Grass (subalpine or alpine) | 2GRAM |
| GS10 | Western needlegrass (alpine) | ACOCO |
| GS11 | Greenleaf fescue | FEVI |
| GS1111 | Greenleaf fescue-Hood’s sedge | FEVI-CAHO5 |
| GS1112 | Greenleaf fescue-silvery lupine | FEVI-LUARL5 |
| GS12 | Idaho fescue (alpine) | FEID |
| GS1211 | Idaho fescue (subalpine) | FEID |
| GS13 | Rough fescue (alpine) | FECA4 |
| GS20 | Sedge (alpine, tall) | CAREX |
| GS30 | Sedge (alpine, short, dense) | CAREX |
| GS3911 | Geyer’s sedge (subalpine) | CAGE2 |
| GS40 | Sedge (alpine, short, thin) | CAREX |
| GS50 | Needlegrass/squirreltail (alpine) | ACHNA/ELEL5 |
| GSC0 | Grasslands-scattered conifers (subalpine to alpine) | 2GRAM-2TE |
| GSXX | Grasslands (alpine xeric) | 2GRAM |
| GSY104 | Malheur(04) 9C: slope-30%, serpent, SD91 11, CJS8 11, GS91 11 | n/a |
| GSY204 | Malheur(04) 9D: 30-70%, serpentine, SD91 11, CJS8 11, GS91 11 | n/a |
| GX | Grass | 2GRAM |
| HA | Red alder | ALRU2 |
| HAC0 | Red alder/conifers | ALRU2/2TE |
| HAF0 | Red alder/forb | ALRU2/2FORB |
| HAF1 | Red alder/western swordfern | ALRU2/POMU |
| HAF2 | Red alder/short forbs | ALRU2/2FORB |
| HAF211 | Red alder/arctic sweet coltsfoot | ALRU2/PEFRP |
| HAF221 | Red alder/blue wildrye | ALRU2/ELGL |
| HAF222 | Red alder/woodsorrel | ALRU2/OXALI |
| HAF223 | Red alder/arctic sweet coltsfoot | ALRU2/PEFR5 |
| HAF224 | Red alder/coastal hedgenettle | ALRU2/STCHC3 |
| HAF225 | Red alder/youth on age-Siberian springbeauty | ALRU2/TOME-CLSIS |
| HAH0 | Red alder/hardwoods | ALRU2/2TD |
| HAM0 | Red alder (wetlands, moist to wet soil) | ALRU2 |
| HAM1 | Red alder (overflow bottomland) | ALRU2 |
| HAM2 | White alder (overflow bottomland) | ALRH2 |
| HAS0 | Red alder/shrub | ALRU2/2SHRUB |
| HAS1 | Red alder/salmonberry-thimbleberry | ALRU2/RUSP-RUPA |
| HAS111 | Red alder/thimbleberry | ALRU2/RUPA |
| HAS112 | Red alder/salmonberry/woodsorrel | ALRU2/RUSP/OXALI |
| HAS113 | Red alder/salmonberry/youth on age | ALRU2/RUSP/TOME |
| HAS2 | Red alder/Pacific ninebark-common snowberry | ALRU2/PHCA11-SYAL |
| HAS211 | Red alder/Pacific ninebark | ALRU2/PHCA11 |
| HAS3 | Red alder/vine maple | ALRU2/ACCI |
| HAS311 | Red alder/vine maple | ALRU2/ACCI |
| HAS4 | Red alder/devilsclub | ALRU2/OPHO |
| HAS411 | Red alder/devilsclub | ALRU2/OPHO |
| HAZ212 | Red alder (TM type map, temporary, Siusilaw) | ALRU2 |
| HAZ312 | Red alder-conifer (TM type map, temporary, Siusilaw) | ALRU2/2TE |
| HB | Bigleaf maple | ACMA3 |
| HBM0 | Bigleaf maple (wetlands, moist to wet soil) | ACMA3 |
| HBM1 | Bigleaf maple (overflow bottomlands, moist) | ACMA3 |
| HBS0 | Bigleaf maple/shrub | ACMA3/2SHRUB |
| HBS1 | Bigleaf maple/vine maple (talus slopes) | ACMA3/ACCI |
| HBS2 | Bigleaf maple/hazelnut/western swordfern | ACMA3/CORYL/POMU |
| HC | Black cottonwood-ash (bottom land, overflow bottom) | POBAT-FRAXI |
| HCC0 | Cottonwood-ash-scattered conifers (bottomland) | POPUL-FRAXI-2TE |
| HCC111 | Black cottonwood-Engelmann spruce/alder-dogwood | POBAT-PIEN/ALNUS-CORNU |
| HCG0 | Black cottonwood-ash/grass-sedge | POBAT-FRAXI/2GRAM-CAREX |
| HCG111 | Black cottonwood/widefruit sedge (wetlands) | POBAT/CAAN15 |
| HCS0 | Cottonwood-willow/shrub | POPUL-SALIX/2SHRUB |
| HCS1 | Cottonwood-willow | POBAT-SALIX |
| HCS111 | Black cottonwood/thinleaf alder/woolly sedge | POBAT/ALINT/CAPE42 |
| HCS112 | Black cottonwood/Pacific willow | POBAT/SALUL |
| HCS113 | Black cottonwood/thinleaf alder-redosier dogwood | POBAT/ALINT-COSES |
| HCS114 | Black cottonwood/Rocky Mountain maple | POBAT/ACGL |
| HCS121 | Black cottonwood/western water hemlock (wetlands) | POBAT/CIDO |
| HCS2 | Ash-willow | FRAXI-SALIX |
| HCS3 | Black cottonwood/common snowberry-spirea | POBAT/SYAL-SPIRA |
| HCS311 | Black cottonwood/common snowberry/bluegrass (wetlands) | POBAT/SYAL/POA |
| HCXX | Black cottonwood | POBAT |
| HL | Canyon live oak (canyon over 16 ft tall) | QUCH2 |
| HLRR | Canyon live oak (rocky with little ground vegetation) | QUCH2 |
| HLRS | Canyon live oak (steep, stony with little ground vegetation) | QUCH2 |
| HLRX | Canyon live oak (rocky or steep sites with little ground vegetation) | QUCH2 |
| HM | Pacific madrone | ARME |
| HMRR | Pacific madrone (rocky sites with little ground vegetation) | ARME |
| HMRS | Pacific madrone (steep sites with little ground vegetation) | ARME |
| HMRX | Pacific madrone (rocky or steep sites with little ground vegetation) | ARME |
| HMS0 | Pacific madrone/shrub | ARME/2SHRUB |
| HMS1 | Pacific madrone/canyon live oak | ARME/QUCH2 |
| HO | Oregon white oak-California black oak | QUGA4-QUKE |
| HOF0 | Oregon white oak-California black oak/forb | QUGA4-QUKE/2FORB |
| HOF1 | Oregon white oak-California black oak/strawberry-yarrow | QUGA4-QUKE/FRAGA-ACHIL |
| HOF111 | Oregon white oak/woods strawberry/hedgehog dogtail | QUGA/FRVEB/CYEC |
| HOG0 | Oregon white oak-California black oak/grass | QUGA4-QUKE/2GRAM |
| HOG1 | Oregon white oak-California black oak/bunchgrass | QUGA4-QUKE/2GRAM |
| HOG111 | Oregon white oak/bluebunch wheatgrass | QUGA4/PSSPS |
| HOG2 | Oregon white oak-California black oak/rhyzomatous grass | QUGA4-QUKE/2GRAM |
| HOG211 | Oregon white oak/pinegrass-Geyer’s sedge | QUGA4/CARU-CAGE2 |
| HOG3 | Oregon white oak-California black oak/annual grass | QUGA4-QUKE/2GRAM |
| HOS0 | Oregon white oak-California black oak/shrub | QUGA4-QUKE/2SHRUB |
| HOS1 | Oregon white oak-California black oak/Pacific poison oak | QUGA4-QUKE/TODI |
| HOS2 | Oregon white oak-California black oak/cherry-common snowberry | QUGA4-QUKE/PRUNU-SYAL |
| HOS3 | Oregon white oak-California black oak/serviceberry-common snowberry | QUGA4-QUKE/AMELA-SYAL |
| HOS311 | Oregon white oak/beaked hazelnut-common snowberry | QUGA4/COCO6-SYAL |
| HOS4 | Oregon white oak-California black oak/beaked hazelnut | QUGA4-QUKE/COCO6 |
| HOS5 | Oregon white oak-California black oakdeerbrush | QUGA4-QUKE/CEIN3 |
| HOS6 | Oregon white oak-California black oak/bitterbrush | QUGA4-QUKE/PURSH |
| HQ | Quaking aspen | POTR5 |
| HQC0 | Quaking aspen-conifers | POTR5-2TE |
| HQC111 | Quaking aspen-lodgepole pine/rose spirea/forb | POTR5-PICO/SPDO/2FORB |
| HQC112 | Quaking aspen-lodgepole pine/kinnikinnick | POTR5-PICO/ARUV |
| HQG0 | Quaking aspen/grass (dryland) | POTR5/2GRAM |
| HQG1 | Quaking aspen/pinegrass | POTR5/CARU |
| HQG111 | Quaking aspen/pinegrass | POTR5/CARU |
| HQM0 | Quaking aspen (wetlands, moist to wet soils) | POTR5 |
| HQM1 | Quaking aspen/grass (wetland) | POTR5/2GRAM |
| HQM121 | Quaking aspen/blue wildrye | POTR5/ELGL |
| HQM122 | Quaking aspen/Kentucky bluegrass | POTR5/POPR |
| HQM123 | Quaking aspen/bluejoint | POTR5/CACA4 |
| HQM2 | Quaking aspen/Nebraska sedge (wetland) | POTR5/CANE2 |
| HQM211 | Quaking aspen/woolly sedge | POTR5/CAPE42 |
| HQM3 | Quaking aspen/short sedge (wetland) | POTR5/CAREX |
| HQM4 | Quaking aspen/shrub (wetland) | POTR5/2SHRUB |
| HQM411 | Quaking aspen-lodgepole pine/rose spirea/widefruit sedge | POTR5-PICO/SPDO/CAAN15 |
| HQS0 | Quaking aspen/shrub | POTR5/2SHRUB |
| HQS1 | Quaking aspen/hawthorn | POTR5/CRATA |
| HQS2 | Quaking aspen/common snowberry | POTR5/SYAL |
| HQS211 | Quaking aspen/common snowberry | POTR5/SYAL |
| HQS221 | Quaking aspen/common snowberry/ blue wildrye | POTR5/SYAL/ELGL |
| HQS3 | Quaking aspen/sagebrush | POTR5/ARTEM |
| HT | Tanoak (over 16 feet tall) | LIDE3 |
| HTC0 | Tanoak-conifers | LIDE3-2TE |
| HTC1 | Tanoak-redwood | LIDE3-SESE3 |
| HTC111 | Tanoak-coast redwood | LIDE3-SESE2 |
| HTC2 | Tanoak-western hemlock | LIDE3-TSHE |
| HTC211 | Tanoak-western hemlock | LIDE3-TSHE |
| HTC3 | Tanoak-Port Orford cedar | LIDE3-CHLA |
| HTC311 | Tanoak-Port Orford cedar | LIDE3-CHLA |
| HTC4 | Tanoak-white fir | LIDE3-ABCO |
| HTC411 | Tanoak-white fir-vine maple | LIDE3-ABCO-ACCI |
| HTC412 | Tanoak-white fir | LIDE3-ABCO |
| HTH0 | Tanoak-hardwoods | LIDE3-2TD |
| HTH1 | Tanoak-canyon live oak | LIDE3-QUCH2 |
| HTH111 | Tanoak-canyon live oak | LIDE3-QUCH |
| HTH112 | Tanoak-canyon live oak/dwarf Oregon grape | LIDE3-QUCH/BENE |
| HTH2 | Tanoak-California laurel | LIDE3-UMCA |
| HTH211 | Tanoak-California laurel | LIDE3-UMCA |
| HTH3 | Tanoak-vine maple | LIDE3-ACCI |
| HTH311 | Tanoak/vine maple | LIDE3/ACCI |
| HTRR | Tanoak (rocky, little ground vegetation) | LIDE3 |
| HTRS | Tanoak (steep slopes, little ground vegetation) | LIDE3 |
| HTRX | Tanoak (rocky or steep sites, little ground vegetation) | LIDE3 |
| HTS0 | Tanoak/shrub | LIDE3/2SHRUB |
| HTS1 | Tanoak/California huckleberry | LIDE3/VAOV2 |
| HTS111 | Tanoak/evergreen huckleberry-salal | LIDE3/VAOV2-GASH |
| HTS112 | Tanoak/evergreen huckleberry | LIDE3/VAOV2 |
| HTS2 | Tanoak/Pacific rhododendron | LIDE3/RHODO |
| HTS221 | Tanoak/Pacific rhododendron | LIDE3/RHMA |
| HTS222 | Tanoak/Pacific rhododendron-evergreen huckleberry | LIDE3/RHMA-VAOV2 |
| HTS223 | Tanoak/Pacific rhododendron-salal | LIDE3/RHMA-GASH |
| HTS3 | Tanoak/creeping barberry-common snowberry | LIDE3/MARE11-SYAL |
| HTS311 | Tanoak/dwarf Oregon grape | LIDE3/BENE |
| HTS312 | Tanoak/dwarf Oregon grape-poison oak | LIDE3/BENE-RHDI |
| HTS321 | Tanok/salal | LIDE3/GASH |
| HTS331 | Tanoak/salal-Pacific rhododendron | LIDE3/GASH-RHMA |
| HTS341 | Tanoak/salal-dwarf Oregon grape | LIDE3/GASH-BENE |
| HTS4 | Tanoak/Pacific poison oak | LIDE3/TODI |
| HTS411 | Tanoak/poison oak-hairy honeysuckle | LIDE3/RHDI-LOHI |
| HTS5 | Tanoak/California buckthorn | LIDE3/FRCA12 |
| HTS511 | Tanoak/California coffeeberry | LIDE3/RHCA |
| HX | Hardwood | 2TD |
| MD | Meadow, dry (water table available part of the growing season) |  |
| MD10 | Cusick’s bluegrass (dry meadow) | POCU3 |
| MD1911 | Cusick’s bluegrass (dry meadow) | POCU3 |
| MD20 | Tufted hairgrass (dry meadow) | DECA18 |
| MD30 | Kentucky bluegrass (dry meadow) | POPR |
| MD3111 | Kentucky bluegrass (dry meadow) | POPR |
| MD3112 | Kentucky bluegrass (meadows on ridges) | POPR |
| MDC0 | Scattered conifers (dry meadow) | 2TE |
| MDMW | Grass-sedge (dry, moist and wet meadows) | 2GRAM/CAREX |
| MM | Meadow, moist (water table available all growing season) | n/a |
| MM10 | Tufted hairgrass (moist meadow) | DECA18 |
| MM19 | Tufted hairgrass (moist meadow) | DECA18 |
| MM1911 | Tufted hairgrass-Nebraska sedge | DECA18-CANE2 |
| MM1912 | Tufted hairgrass (moist meadow) | DECA18 |
| MM1921 | Tufted hairgrass-sedge (moist meadow) | DECA18-CAREX |
| MM1922 | Tufted hairgrass-sedge (wet meadow) | DECA18-CAREX |
| MM20 | Sedge (tall, moist meadow) | CAREX |
| MM2911 | Woolly sedge (moist meadow) | CAPE42 |
| MM2912 | Nebraska sedge (moist meadow) | CANE2 |
| MM2913 | Widefruit sedge (moist meadow) | CAAN15 |
| MM2914 | water sedge (aquatic moist meadow) | CAAQ |
| MM2915 | analogue sedge (moist meadow) | CASI2 |
| MM2916 | woodrush sedge (moist meadow) | CALU7 |
| MM2917 | Northwest Territory sedge (moist meadow) | CAUT |
| MM2918 | Cusick’s sedge (moist meadow) | CACU5 |
| MM2919 | Lakeshore sedge (moist meadow) | CALEL |
| MM2920 | Woollyfruit sedge (moist meadow) | CALA11 |
| MM2921 | Bigleaf sedge (moist meadow) | CAAM10 |
| MM2922 | Naked sedge (moist meadow) | CANU5 |
| MM2924 | Panicled bulrush (moist meadow) | SCMI2 |
| MM2925 | Fowl mannagrass (moist meadow) | GLST |
| MM2931 | Lakeshore sedge | CALE8 |
| MM30 | Sedge (short, moist meadow) | CAREX |
| MM3911 | Sedge-Howell's marsh marigold | CAREX/CALEH2 |
| MM40 | Redtop (moist meadow) | AGGI2 |
| MM50 | Sedge (moist meadow) | CAREX |
| MM80 | Grass-forb (moist meadow, coastal) | 2GRAM-2FORB |
| MM90 | Kentucky bluegrass (moist meadow) | POPR |
| MMB0 | Meadow complex/wet-moist-dry pothole | n/a |
| MMB8 | Slough sedge-rush-red fescue (deflation plain potholes/slough ) | CAOB3-JUNCU-FERU2 |
| MMC0 | Conifer (moist meadow) | 2TE |
| MMX104 | Malheur(04) 10A: slope less 15%, MD, MM, MW (meadows) | n/a |
| MS | Meadow (subalpine/alpine moist) | n/a |
| MS10 | Grass-sedge-forb (subalpine dry meadows) | 2GRAM-CAREX-2FORB |
| MS1111 | Brewer’s sedge (dry subalpine meadow) | CABR12 |
| MS20 | Grass-sedge (subalpine moist meadows) | 2GRAM-CAREX |
| MS2111 | Black alpine sedge (moist subalpine meadow) | CANI2 |
| MS2112 | Broom sedge-black alpine sedge-tufted hairgrass (subalpine meadow) | CASC11-CANI2-DECA18 |
| MS25 | Forb (subalpine moist meadows) | 2FORB |
| MS30 | Grass-sedge-forb (subalpine wet meadows) | 2GRAM-CAREX-2FORB |
| MS3111 | Mountain sedge (subalpine wet meadow) | CASC12 |
| MSC0 | Conifer (subalpine to alpine meadows) | 2TE |
| MSXX | Grass-sedge (subalpine to alpine meadow) | 2GRAM-CAREX |
| MT | Tule meadow (standing water most or all of growing season) | SCACO2 |
| MT19 | Bulrush | SCIRP |
| MT1911 | Sedge-panicled bulrush (hydric) | CAREX-SCMI2 |
| MT1921 | Panicled bulrush | SCMI2 |
| MT80 | Cattail-bulrush | TYPHA/SCIRP |
| MT8111 | Cattail-bulrush/waterlily-waterweed | TYPHA-SCIRP/NYMPH-ELODE |
| MT99 | Water (coastal saline) | n/a |
| MW | Meadow, wet (surface moist or wet all growing season) | n/a |
| MW10 | Sedge (tall, wet meadow) | CAREX |
| MW1911 | Nebraska sedge-Baltic rush (wet meadow) | CANE2-JUBA |
| MW1921 | Panicled bulrush-bigleaf sedge | SCMI2-CAAM10 |
| MW1922 | Sitka sedge | CAAQD |
| MW1923 | Blister sedge | CAVE6 |
| MW1924 | Beaked sedge | CARO6 |
| MW1925 | Greenfruit sedge | CAIN17 |
| MW20 | Sedge (short, wet meadow) | CAREX |
| MW2911 | Woollyfruit sedge | CALA11 |
| MW30 | Rush (wet meadow) | n/a |
| MW3911 | Sierra rush | JUNE |
| MW3912 | Baltic rush | JUBA |
| MW40 | Spike sedge (wet meadow) | CANA2 |
| MW4911 | Fewflower spikerush | ELQU2 |
| MW4912 | Common spikerush | ELPA3 |
| MW80 | Wet meadow-coastal, fresh water | n/a |
| MW8111 | Slough sedge/American skunk cabbage-red currant (valley fill) | CAOB3/LYAM3-RITR |
| MW8112 | Slough sedge/waterlily-pondweed-cattail | CAOB3/NYMPH-POTAM-TYPHA |
| MW90 | Wet meadow-coastal, salt spray influence | n/a |
| MWC0 | Scattered conifers (west meadow, surface moisture) | 2TE |
| MX | Grass-sedge (meadow) | 2GRAM/CAREX |
| NA | Avalanche paths, sparsely to non-vegetated | n/a |
| NAC0 | Scattered conifers (avalanche path) | 2TE |
| NAS0 | Shrub (scattered, avalanche path) | 2SHRUB |
| NC | Cinders, lava flow, mud flow, glacial wash (less than 10% vegetation) | n/a |
| NCA0 | Alpine-subalpine cinders, lava flow, mud flow, glacial wash | n/a |
| NCA1 | Whitebark pine-subalpine fir-mountain hemlock (alpine) | PIAL-ABLA-TSME |
| NCA111 | Whitebark pine-mountain hemlock/Pacific hulsea (steep cinders) | PIAL-TSME/HUAL |
| NCA2 | Grass-sedge (alpine, cinders, lava, pumice) | 2GRAM/CAREX |
| NCA3 | Common juniper (alpine, cinders, lava, pumice) | JUCO6 |
| NCA4 | Pacific hulsea-pincushionplant (cinders, lava flow, glacial wash) | HUAL-NAVAR |
| NCA411 | Pacific hulsea (alpine, steep cinders) | HUAL |
| NCC0 | Conifer (cinders, lavas, outwash) | 2TE |
| NCC1 | Mountain hemlock-subalpine fir-whitebark pine-lodgepole pine (cinders, lava, pumice) | TSME-ABLA-PIAL-PICO |
| NCC111 | Whitebark pine/beardtongue (alpine, pumice-lava) | PIAL/PENST |
| NCC2 | Western hemlock (cinders, lava, pumice) | TSHE |
| NCC3 | Douglas-fir (cinders, lava) | PSME-ABIES |
| NCC4 | Douglas-fir-oak (cinders, lava) | PSME-QUERC |
| NCC5 | Lodgepole pine (cinders, lava) | PICO |
| NCC6 | Ponderosa pine (cinders, lava) | PIPO |
| NCH0 | Hardwood (cinders, lavas, outwash) | 2TD |
| NCH1 | Red alder-quaking aspen (mud-glacial flows) | ALRU2-POTR5 |
| NCS0 | Shrub (scattered, cinders, lavas, outwash) | 2SHRUB |
| NCS1 | Vine maple (cinders, lavas, outwash) | ACCI |
| NCS111 | Shrub (lava flows) | 2SHRUB |
| NCS2 | Sitka alder-willow (cinders, lavas, outwash) | ALVIS-SALIX |
| NF | Flood plain periodically denuded of vegetation | n/a |
| NFC0 | Conifer (non-vegetated flood plain) | 2TE |
| NFS0 | Willow-shrubs (non-vegetated flood plain) | SALIX-2SHRUB |
| NI | Ice fields, glaciers, ice caves, ice dominated land | n/a |
| NIT1 | Ice tunnel or cave, twilight zone | n/a |
| NIT2 | Ice tunnel or cave, zero light zone | n/a |
| NL | Landform failure (natural slumps, avalanches) | n/a |
| NM | Mine tailings, dredgings, man-caused minimal vegetation potential | n/a |
| NMC0 | Conifer (mine tailings, dredgings) | 2TE |
| NMC1 | Lodgepole pine (mine tailings, dredgings) | PICO |
| NMH0 | Hardwood (mine tailings, dredgings) | 2TD |
| NMH1 | Cottonwood (mine tailings, dredgings) | POPUL |
| NMH2 | Quaking aspen (mine tailings, dredgings) | POTR5 |
| NMS0 | Shrub (mine tailings dredgings) | 2SHRUB |
| NMS1 | Willow (mine tailings, dredgings) | SALIX |
| NR | Rocky land with minimal vegetation potential | n/a |
| NRA0 | Rocky land in alpine or subalpine locations | n/a |
| NRA1 | Conifer (rocky land, alpine) | 2TE |
| NRA2 | Grass-sedge (alpine, rocky) | 2GRAM/CAREX |
| NRA311 | Common juniper (subalpine steep scoria) | JUCO6 |
| NRA4 | Forb (alpine, rocky) | 2FORB |
| NRC0 | Conifer (rock) | 2TE |
| NRL0 | Ledge or cliff, steeper than 200% (60 degrees) | n/a |
| NRL1 | Ledge or cliff, smooth face, verticle distance less than 20 ft | n/a |
| NRL2 | Ledge or cliff, smooth face, verticle distance more than 20 ft | n/a |
| NRL5 | Ledge or cliff, broken face/ledges, verticle distance less than 20 feet | n/a |
| NRL6 | Ledge or cliff, broken face/ledges, verticle distance more than 20 feet | n/a |
| NRL911 | Rock garden (steep, zeric) | n/a |
| NRL912 | Rock garden (steep, moist) | n/a |
| NRNO | Rock, no vegetation | n/a |
| NRQ0 | Quarry, rock pit | n/a |
| NRR0 | Rock, flat with scattered plants (less than 200% slope) | n/a |
| NRR911 | Rock graden (flat, xeric) scattered plants on rock | n/a |
| NRS0 | Shrub (rocky land) | 2SHRUB |
| NRT1 | Tunnel or cave, twilight zone | n/a |
| NRT2 | Tunnel or cave, zero light zone | n/a |
| NS | Sand with minimal vegetation, shoreline or interior | n/a |
| NSG0 | Grass (scattered with sand dunes) | 2GRAM |
| NSG1 | Wildrye-wheatgrass (sand dune) | ELYMU/AGROP2 |
| NSG8 | Beachgrass (coastal sand dune, rolling, partial beachgrass stability) | AMMOP |
| NSN0 | Open sand of any dunal character, no vegetation | n/a |
| NSN111 | Pacific coast beach | n/a |
| NSN2 | Transverse ridge, sand dune system, no vegetation | n/a |
| NSN211 | Transverse ridge, occasionally wet, winter stable | n/a |
| NSN212 | Transverse ridge, dry, moving sand | n/a |
| NSN3 | Oblique ridge, sand dune system, no vegetation | n/a |
| NSN311 | Oblique ridge, fore slope, moving sand | n/a |
| NSN312 | Oblique ridge, precipitation ridge, active sand | n/a |
| NSN313 | Oblique ridge, precipitation ridge, active, threat, veget | n/a |
| NSN4 | Parabola ridge, sand dune system, no vegetation | n/a |
| NT | Talus land with minimal vegetation potential | n/a |
| NTA0 | Talus slopes in alpine or subalpine locations | n/a |
| NTA1 | Pine-mountain hemlock-subalpine fir (talus) | PINUS-TSME-ABLA |
| NTA2 | Grass-sedge (alpine, talus) | 2GRAM-CAREX |
| NTA3 | Juniper (talus land, alpine) | JUNIP |
| NTA4 | Forb (alpine, talus) | 2FORB |
| NTC0 | Conifer (talus) | 2TE |
| NTH0 | Hardwood (talus slopes) | 2TD |
| NTH1 | Bigleaf maple (talus) | ACMA3 |
| NTH2 | White oak (talus) | QUAL |
| NTS0 | Shrub (talus slopes) | 2SHRUB |
| NTS1 | Cherry-snowberry-Lewis’ mock orange (talus) | PRUNU-GAULT-PHLE4 |
| NTS111 | Lewis’ mock orange (talus strips) | PHLE4 |
| NTS2 | Vine maple (talus) | ACCI |
| NTS211 | Vine maple (talus slopes) | ACCI |
| NTS3 | Klamath plum (talus) | PRSU2 |
| NTS911 | Talus slopes with little vegetation | n/a |
| NX | Non-vegetated land, less than 10% vegetation cover | n/a |
| SC | Chaparral, evergreen shrubland, forest zone and nonforest | n/a |
| SC10 | Snowbrush ceanothus-chaparral | CEVE |
| SC20 | Manzanita | ARCTO3 |
| SC30 | Oak-tanoak-canyon live oak (less than 16 ft. tall) | QUERC-LIDE3-QUCH2 |
| SC40 | Mountain mahogany | CERCO |
| SC50 | Yerba santa-silktassel | ERIOD/GARRY |
| SC60 | Shrub (short) | 2SHRUB |
| SD | Sagebrush (dry shrubland, nonforest zone shrubland not desert) | ARTEM |
| SD10 | Little sagebrush-black sagebrush | ARAR8-ARNO4 |
| SD1911 | Little sagebrush/Idaho fescue-bluebunch wheatgrass | ARAR8/FEID-PSSPS |
| SD1912 | Little sagebrush/Idaho fescue | ARAR8/FEID |
| SD1913 | Little sagebrush/Idaho fescue-squirreltail | ARAR8/FEID-ELELE |
| SD1921 | Black sagebrush/bluebunch wheatgrass | ARNO4/PSSP6 |
| SD1922 | Black sagebrush/Idaho fescue | ARNO4/FEID |
| SD1924 | Little sagebrush/bluebunch wheatgrass | ARAR8/PSSP6 |
| SD1925 | Little sagebrush/Idaho fescue | ARAR8/FEID |
| SD1926 | Little sagebrush/Idaho fescue | ARART/FEID |
| SD20 | Big sagebrush | ARTR2 |
| SD21 | Big sagebrush | ARTR2 |
| SD2121 | Big sagebrush/bluebunch wheatgrass | ARTR2/PSSPS |
| SD2122 | Big sagebrush/Idaho fescue | ARTR2/FEID |
| SD2123 | Big sagebrush/needle and thread | ARTR2/HECOC8 |
| SD2124 | Big sagebrush/Sandberg bluegrass | ARTR2/POSE |
| SD2131 | Little sagebrush/Idaho fescue | ARARL/FEID |
| SD2133 | Wyoming big sagebrush/Sandberg bluegrass | ARTRW8/POSE |
| SD2134 | Wyoming big sagebrush/squirreltail | ARTRW8/ELELE |
| SD2135 | Wyoming big sagebrush/Thurber’s needlegrass | ARTRW8/ACTH7 |
| SD2136 | Wyoming big sagebrush/bluebunch wheatgrass | ARTRW8/PSSP6 |
| SD2137 | Wyoming big sagebrush/Dore’s needlegrass | ARTRW8/ACNED |
| SD2138 | Basin big sagebrush/bluebunch wheatgrass | ARTRT/PSSP6 |
| SD2139 | Basin big sagebrush/Idaho fescue | ARTRT/FEID |
| SD2140 | Basin big sagebrush/Dore’s needlegrass | ARTRT/ACNED |
| SD22 | Threetip sagebrush | ARTR4 |
| SD2221 | Threetip sagebrush/Idaho fescue | ARTR4/FEID |
| SD2222 | Threetip sagebrush/needle and thread | ARTR4/HECOC8 |
| SD2223 | Threetip sagebrush/bluebunch wheatgrass | ARTR4/PSSPS |
| SD2231 | Threetip sagebrush/bluebunch wheatgrass (Idaho) | ARTR4/PSSP6 |
| SD2232 | Threetip sagebrush/Idaho fescue (Idaho) | ARTR4/FEID |
| SD23 | Silver sagebrush | ARCA13 |
| SD2311 | Big sagebrush/Cusick’s bluegrass | ARTR2/POCU3 |
| SD2321 | Silver sagebrush/Idaho fescue | ARCA13/FEID |
| SD2911 | Mountain big sagebrush/Idaho fescue-bluebunch wheatgrass | ARTRV/FEID-PSSPS |
| SD2912 | Basin big sagebrush/bluebunch wheatgrass | ARTRT/PSSPS |
| SD2913 | Big sagebrush-antelope bitterbrush/Idaho fescue-bluebunch wheatgrass | ARTR2-PUTR2/FEID-PSSPS |
| SD2914 | Big sagebrush/western needlegrass (rhyolite pumice) | ARTR2/ACOCO |
| SD2915 | Mountain big sagebrush/Geyer’s sedge | ARTRV/CAGE2 |
| SD2916 | Mountain big sagebrush-antelope bitterbrush/Idaho fescue | ARTRV-PUTR2/FEID |
| SD2917 | Mountain big sagebrush-mountain snowberry | ARTRV-SYOR2 |
| SD2921 | Mountain big sagebrush/bluebunch wheatgrass | ARTRV/PSSP6 |
| SD2922 | Mountain big sagebrush/Idaho fescue | ARTRV/FEID |
| SD2923 | Mountain big sagebrush/Dore’s needlegrass | ARTRV/ACNED |
| SD2924 | Mountain big sagebrush-mountain snowberry/bluebunch wheatgrass | ARTRV-SYOR2/PSSP6 |
| SD2925 | Mountain big sagebrush-mountain snowberry/Idaho fescue | ARTRV-SYOR2/FEID |
| SD2926 | Mountain big sagebrush-mountain snowberry/Geyer’s sedge | ARTRV-SYOR2/CAGE2 |
| SD2927 | Mountain big sagebrush/bluebunch wheatgrass (xeric) | ARTRV/PSSP6 |
| SD2928 | Mountain big sagebrush/Idaho fescue (xeric) | ARTRV/FEID |
| SD30 | Antelope bitterbrush-squaw apple-mountain snowberry | PUTR2-PERA4-SYOR2 |
| SD31 | Antelope bitterbrush | PUTR2 |
| SD3111 | Antelope bitterbrush/Idaho fescue-bluebunch wheatgrass | PUTR2/FEID-PSSPS |
| SD3112 | Antelope bitterbrush/bluebunch wheatgrass | PUTR2/PSSPS |
| SD3121 | Antelope bitterbrush/needle and thread (Daubenmier) | PUTR2/HECOC8 |
| SD3122 | Antelope bitterbrush/bluebunch wheatgrass (Daubenmier) | PUTR2/PSSPS |
| SD3123 | Antelope bitterbrush/Idaho fescue (Daubenmier) | PUTR2/FEID |
| SD3131 | Antelope bitterbrush/bluebunch wheatgrass (Idaho) | PUTR2/PSSP6 |
| SD3132 | Antelope bitterbrush/Dore’s needlegrass (Idaho) | PUTR2/ACNED |
| SD3311 | Antelope bitterbrush/western needlegrass-long-stolen sedge | PUTR2/ACOCO-CAIN9 |
| SD40 | Curl-leaf mountain mahogany | CELE3 |
| SD41 | Curl-leaf mountain mahogany/bunchgrass | CELE3/2GRAM |
| SD4111 | Curl-leaf mountain mahogany/Idaho fescue-bluebunch wheatgrass | CELE3/FEID-PSSPS |
| SD4112 | Curl-leaf mountain mahogany/bluebunch wheatgrass | CELE3/PSSP6 |
| SD42 | Curl-leaf mountain mahogany/rhyzomatous grass | CELE3/2GRAM |
| SD43 | Curl-leaf mountain mahogany/sagebrush | CELE3/ARTEM |
| SD44 | Curl-leaf mountain mahogany/mountain snowberry | CELE3/SYOR2 |
| SD49 | Curl-leaf mountain mahogany | CELE3 |
| SD50 | Netleaf hackberry-black hawthorn | CELAR-CRDO2 |
| SD5121 | Black hawthorn/common snowberry | CRDO2/SYAL |
| SD5611 | Netleaf hackberry/bluebunch wheatgrass | CELAR/PSSPS |
| SD5621 | Netleaf hackberry/cheatgrass | CELAR/BRTE |
| SD60 | Smooth sumac | RHGL |
| SD6121 | Smooth sumac/bluebunch wheatgrass | RHGL/PSSPS |
| SD6122 | Smooth sumac/sand dropseed | RHGL/SPCR |
| SD6123 | Smooth sumac/Fendler threeawn | RHGL/ARPUL |
| SD65 | Spiny greasebush/bluebunch wheatgrass | GLSPA/PSSPS |
| SD70 | Rabbitbrush | CHRYS9 |
| SD80 | Common snowberry-cherry-rose | SYAL-PRUNU-ROSA5 |
| SD90 | Shrub (scabland) | 2SHRUB |
| SD91 | Scabland sagebrush | ARRI2 |
| SD9111 | Scabland sagebrush/Sandberg bluegrass (scabland) | ARRI2/POSE |
| SD9112 | Scabland sagebrush/Sandberg bluegrass (Idaho) | ARRI2/POSE |
| SD9121 | Scabland sagebrush/Sandberg bluegrass (Daubenmier) | ARRI2/POSE |
| SD9131 | Scabland sagebrush/Sandberg bluegrass-bigseed biscuitroot (scabland) | ARRI2/POSE-LOMA3 |
| SD92 | Little sagebrush (scabland) | ARAR8 |
| SD9211 | Little sagebrush-narrowleaf mock goldenweed/Sandberg bluegrass | ARAR8-STST5/POSE |
| SD9212 | Little sagebrush/Sandberg bluegrass-onespike danthonia | ARAR8/POSE-DAUN |
| SD9221 | Little sagebrush/Sandberg bluegrass (scabland) | ARAR8/POSE |
| SD9222 | Little sagebrush/Sandberg bluegrass (Idaho) | ARAR8/POSE |
| SD93 | Buckwheat (scablands) | ERIOG |
| SD9321 | Snow buckwheat/Sandberg bluegrass | ERNI2/POSE |
| SD9322 | Slender buckwheat/Oregon twinpod | ERMI4/PHOR2 |
| SD9323 | Sulpher-flower buckwheat/stipa (flats, rhyolite pumice) | ERUM/STIPA |
| SDB9 | Biscuit-scabland (complex) | n/a |
| SDC0 | Sagebrush-conifer-shrub (dry) | ARTEM-2TE-2SHRUB |
| SDX104 | Malheur(04) 8A: less 30%/SD19 11, SD29 11, SD39, SD49, CPS1 11, CJS1 11, CJS2 11 | n/a |
| SDX204 | Malheur(04) 8B: 30-70%/SD19 11, SD29 11, SD39, SD49, CPS1 11, CJS1 11, CJS2 11 | n/a |
| SDXX | Shrub (xeric) | 2SHRUB |
| SDY104 | Malheur(04) 9A: less 30% slope/SD91 11, CJS8 11, GB91 11. SCAB | n/a |
| SDY204 | Malheur(04) 9B: slope 30-70%/SD91 11, CJ38 11, GB91 11. SCAB | n/a |
| SM | Shrub (moist, mesic, forest zone) | 2SHRUB |
| SM10 | Mallow ninebark | PHMA5 |
| SM1111 | Mallow ninebark-common snowberry | PHMA5-SYAL |
| SM19 | Mallow ninebark | PHMA5 |
| SM20 | Sitka alder (snow slides) | ALVIS |
| SM30 | Cherry-mock orange-snowberry-serviceberry-rose-oceanspray-ceanothus | PRUNUS-PHILA-GAULT-AMELA-ROSA5-HOLOD-CEANO |
| SM31 | Common snowberry (shrubland) | SYAL |
| SM3111 | Common snowberry-rose | SYAL/ROSA5 |
| SM32 | Mountain snowberry | SYOR2 |
| SM3911 | Shrub (bottoms) | 2SHRUB |
| SM40 | Blueberry | VACCI |
| SM50 | Salmonberry-blackberry | RUSP-RUBUS |
| SM5911 | Thimbleberry-poke knotweed | RUPA-POPH |
| SM80 | Shrub (coastal, west-side) | 2SHRUB |
| SM81 | Shrub (tall) | 2SHRUB |
| SM8111 | Sitka alder (rocky soil) | ALVIS |
| SM8112 | Vine maple (rocky soil) | ACCI |
| SM82 | Shrub (mid) | 2SHRUB |
| SM83 | Shrub (short) | 2SHRUB |
| SM84 | Gorse | ULEX |
| SM90 | Shrub (scabland dominated by mesic shrubs) | 2SHRUB |
| SMB0 | Shrub-buckwheat (biscuit-scabland complex, moist) | 2SHRUB-ERIOG |
| SMC0 | Shrub-scattered confiers (moist, mesic, in forest zone) | 2SHRUB/2TE |
| SMXX | Shrub (mesic) | 2SHRUB |
| SS | Shrub (subalpine and alpine) | 2SHRUB |
| SS10 | Heath-mountain heather (alpine) | ERICA/CASSI3 |
| SS1911 | Pink mountainheath (meadow) | PHEM |
| SS20 | Juniper (alpine mountain) | JUNIP |
| SS30 | Shrub (alpine deciduous) | 2SHRUB |
| SS40 | Mountain big sagebrush | ARTRV |
| SS4911 | Mountain big sagebrush/Geyer’s sedge | ARTRV/CAGE2 |
| SS4912 | Mountain big sagebrush/Geyer’s sedge (Idaho) | ARTRV/CAGE2 |
| SS4913 | Mountain big sagebrush/California brome | ARTRV/BRCA5 |
| SS4921 | Little sagebrush/red fescue (alpine) | ARAR8/FERU2 |
| SS50 | Alpine low blueberry | VAAN |
| SSC0 | Shrub-conifer (subalpine) | 2SHRUB-2TE |
| SSX104 | Malheur(04) 1A: SS49 11, GS39 11, GS12 11, CAG1 11, FS59 11 | n/a |
| SSXX | Shrub (subalpine) | 2SHRUB |
| SW | Shrub (wetlands, shrubs less than 16 ft. tall) | 2SHRUB |
| SW10 | Willow (wetlands) | SALIX |
| SW1111 | Willow/Kentucky bluegrass | SALIX/POPR |
| SW1112 | Willow/woolly sedge | SALIX/CAPE42 |
| SW1113 | Willow/widefruit sedge | SALIX/CAAN15 |
| SW1114 | Willow/water sedge | SALIX/CAAQ |
| SW1115 | Willow/Sitka sedge | SALIX/CAAQD |
| SW1116 | Willow/beaked sedge | SALIX/CARO6 |
| SW1117 | Narrowleaf willow | SAEX |
| SW1118 | Willow/Columbian monkshood | SALIX/ACCO4 |
| SW1119 | Willow/tufted hairgrass | SALIX/DECA18 |
| SW1120 | Mountain willow-undergreen willow (bog) | SAEA-SACO2 |
| SW1121 | Mountain willow-undergreen willow/mountain sedge | SAEA-SACO2/CASC12 |
| SW1122 | Mountain willow-Booth’s willow/black alpine sedge | SAEA-SABO2/CANI2 |
| SW1123 | Willow/Northwest Territory sedge | SALIX/CAUT |
| SW1131 | Sitka willow | SASI2 |
| SW1132 | Sitka willow/arctic sweet coltsfoot | SASI2/PEFR5 |
| SW20 | Alder (wetlands) | ALNUS |
| SW21 | White alder | ALRH2 |
| SW2111 | Sitka alder/common ladyfern | ALVIS/ATFI |
| SW2112 | Sitka alder/drooping woodreed | ALVIS/CILA2 |
| SW2113 | Sitka alder/common cowparsnip | ALVIS/HEMA80 |
| SW2114 | Gray alder/bigleaf sedge | ALIN2/CAAM10 |
| SW2115 | Gray alder/Northwest Territory sedge | ALIN2/CAUT |
| SW2116 | Gray alder/common ladyfern | ALIN2/ATFI |
| SW2117 | Gray alder/field horsetail | ALIN2/EQAR |
| SW2118 | Gray alder/Dewey sedge | ALIN2/CADE9 |
| SW2119 | Gray alder/common cowparsnip | ALIN2/HEMA80 |
| SW2120 | Gray alder/Kentucky bluegrass | ALIN2/POPR |
| SW2121 | Gray alder/bluejoint | ALIN2/CACA4 |
| SW2122 | Gray alder/panicled bulrush | ALIN2/SCMI2 |
| SW2123 | Gray alder/woolly sedge | ALIN2/CAPE42 |
| SW2131 | Gray alder-oval-leaf blueberry | ALIN2-VAOV |
| SW2132 | Sitka alder | ALVIS |
| SW2211 | Gray alder/common snowberry | ALIN2/SYAL |
| SW2212 | Gray alder/rose spirea | ALIN2/SPDO |
| SW2213 | Gray alder (spring) | ALIN2 |
| SW2214 | Gray alder (bank) | ALIN2 |
| SW2215 | Gray alder/fowl mannagrass | ALIN2/GLST |
| SW2216 | Gray alder-redosier dogwood/mesic forb | ALIN2-COSES/2FORB |
| SW2217 | Gray alder-currant/mesic forb | ALIN2-RIBES/2FORB |
| SW25 | Red alder (shrubby lifeform) | ALRU2 |
| SW2511 | Red alder (shrubby lifeform) | ALRU2 |
| SW2512 | Red alder (shrubby)/Carolina bugbane | ALRU2/TRCA |
| SW2911 | Gray alder (shrubfield) | ALIN2 |
| SW30 | Black hawthorn (wetlands) | CRDO2 |
| SW3111 | Black hawthorn | CRDO2 |
| SW3120 | Black hawthorn/common snowberry | CRDO2/SYAL |
| SW3121 | Quaking aspen/black hawthorn/common snowberry | POTR5/CRDO2/SYAL |
| SW3122 | Black hawthorn/common cowparsnip | CRDO2/HEMA80 |
| SW3123 | Quaking aspen/black hawthorn/common cowparsnip | POTR5/CRDO2/HEMA80 |
| SW40 | Rose spirea-bog blueberry (wetlands) | SPDO/VAUL |
| SW4111 | Bog blueberry/Sitka sedge | VAUL/CAAQD |
| SW4112 | Bog blueberry/fewflower spikerush | VAUL/ELQU2 |
| SW4113 | Rose spirea | SPDO |
| SW4121 | Blueberry-rose meadowsweet/grass (wetland) | VACCI-SPSPS/2GRAM |
| SW4122 | Rose spirea-bog blueberry/sedge (wetland) | SPDO-VAUL/CAREX |
| SW4123 | Spirea-willow/sedge (wetland) | SPIRA-SALIX/CAREX |
| SW4131 | Redosier dogwood | COSES |
| SW4132 | Oval-leaf blueberry | VAOV |
| SW50 | Currant-shrubby cinquefoil | RIBES/DAFL3 |
| SW5111 | Currant/drooping woodreed | RIBES/CILA2 |
| SW5112 | Redosier dogwood | COSES |
| SW5113 | Shrubby cinquefoil/tufted hairgrass | DAFL3/DECA18 |
| SW5114 | Shrubby cinquefoil/Kentucky bluegrass | DAFL3/POPR |
| SW5121 | Stink currant-salmonberry/woodsorrel | RIBR-RUSP/OXALI |
| SW5122 | Stink currant-salmonberry/arctic sweet coltsfoot | RIBR-RUSP/PEFR5 |
| SW5123 | Stink currant-salmonberry/youth on age | RIBR-RUSP/TOME |
| SW60 | Silver sagebrush-mountain big sagebrush (meadow) | ARCA13/ARTRV |
| SW6111 | Silver sagebrush/tufted hairgrass | ARCA13/DECA18 |
| SW6112 | Silver sagebrush/Kentucky bluegrass | ARCA13/POPR |
| SW6113 | Mountain big sagebrush/Cusick’s bluegrass | ARTRV/POCU3 |
| SW70 | Vine maple | ACCI |
| SW7111 | Vine maple-gray alder | ACCI-ALIN2 |
| SW7112 | Vine maple/coastal hedgenettle | ACCI/STCHC3 |
| SW7113 | Devilsclub | OPHO |
| SW80 | Willow (coastal shrub wetlands) | SALIX/MYRIC |
| SW81 | Shrub (coastal in a deflation plain) | 2SHRUB |
| SW8111 | Shrub (deflation plain, high water) | 2SHRUB |
| SW8112 | Salal-blueberry-willow (deflation plain, high water) | GASH-VACCI-SALIX |
| SWC0 | Shrub-conifer (wet) | 2SHRUB/2TE |
| SWXX | Shrub (wet) | 2SHRUB |
| SX | Shrub | 2SHRUB |
| TX | Tundra | n/a |
| WC0 | White fir and grand fir with associated conifers | ABCO-ABGR-2TE |
| WC1 | White fir-incense cedar-pine | ABCO-CADE27-PINUS |
| WE | Estuary systems - interface between fresh and saline water | n/a |
| WE10 | Bar built, geology - sand dune estuarian system | n/a |
| WE11 | Bar built, fresh-saline water highly stratified | n/a |
| WE12 | Bar built, fresh-saline water moderately mixed | n/a |
| WE13 | Bar built, fresh-saline water well mixed | n/a |
| WE1311 | Bar built, well mixed saline, active flood plain | n/a |
| WE1319 | Bar built, well mixed saline, tidal exposed sandy bottom | n/a |
| WE1329 | Bar built, well mixed saline, tidal exposed clay bottom | n/a |
| WE1339 | Bar built, well mixed saline, tidal exposed stony bottom | n/a |
| WE1359 | Bar built, well mix saline, tidal salt marsh (eelgrass) | n/a |
| WE20 | Drowned river estuarian system | n/a |
| WE21 | Drowned river/fresh-saline water highly stratified | n/a |
| WE22 | Drowned river/fresh-saline water moderate mixed | n/a |
| WE23 | Drowned river/fresh-saline water well mixed | n/a |
| WE30 | Fjord type of estuarian system | n/a |
| WE31 | Fjord/fresh-saline water highly stratified | n/a |
| WE32 | Fjord/fresh-saline water moderately mixed | n/a |
| WE33 | Fjord/fresh-saline water well mixed | n/a |
| WE40 | Tectonic (faulted) estuarian system | n/a |
| WE41 | Tectonic/fresh-saline water highly stratified | n/a |
| WE42 | Tectonic/fresh-saline water moderately mixed | n/a |
| WE43 | Tectonic/fresh-saline water well mixed | n/a |
| WL10 | Perennial water, no ice cover during average year | n/a |
| WL11 | Perennial, no ice cover, less 5 acres | n/a |
| WL12 | Perennial, no ice cover, 5-25 acres | n/a |
| WL13 | Perennial, no ice cover, 25-100 acres | n/a |
| WL14 | Perennial, no ice cover, 100-500 acres | n/a |
| WL15 | Perennial, no ice cover, over 500 acres | n/a |
| WL20 | Perennial, ice cover less than 30 days, average year | n/a |
| WL21 | Perennial, ice less 30 days, less 5 acres | n/a |
| WL22 | Perennial, ice less 30 days, 5-25 acres | n/a |
| WL23 | Perennial, ice less 30 days, 25-100 acres | n/a |
| WL24 | Perennial, ice less 30 days, 100-500 acres | n/a |
| WL25 | Perennial, ice less 30 days, over 500 acres | n/a |
| WL30 | Perennial, ice cover 30-90 days during average year | n/a |
| WL31 | Perennial, ice 30-90 days, less 5 acres | n/a |
| WL32 | Perennial, ice 30-90 days, 5-25 acres | n/a |
| WL33 | Perennial, ice 30-90 days, 25-100 acres | n/a |
| WL34 | Perennial, ice 30-90 days, 100-500 acres | n/a |
| WL35 | Perennial, ice 30-90 days, over 500 acres | n/a |
| WL40 | Perennial, ice cover 90-150 days, during average year | n/a |
| WL41 | Perennial, ice 90-150 days, less 5 acres | n/a |
| WL42 | Perennial, ice 90-150 days, 5-25 acres | n/a |
| WL43 | Perennial, ice 90-150 days, 25-100 acres | n/a |
| WL44 | Perennial, ice 90-150 days, 100-500 acres | n/a |
| WL45 | Perennial, ice 90-150 days, over 500 acres | n/a |
| WL50 | Perennial, ice cover 150-210 days during average year | n/a |
| WL51 | Perennial, ice cover 150-210 days, less 5 acres | n/a |
| WL52 | Perennial, ice cover 150-210 days, 5-25 acres | n/a |
| WL53 | Perennial, ice cover 150-210 days, 25-100 acres | n/a |
| WL54 | Perennial, ice cover 150-210 days, 100-500 acres | n/a |
| WL55 | Perennial, ice cover 150-210 days, over 500 acres | n/a |
| WL60 | Perennial, ice cover longer than 210 days, average year | n/a |
| WL61 | Perennial, ice longer 210 days, less 5 acres | n/a |
| WL62 | Perennial, ice longer 210 days, 5-25 acres | n/a |
| WL63 | Perennial, ice longer 210 days, 25-100 acres | n/a |
| WL64 | Perennial, ice longer 210 days, 100-500 acres | n/a |
| WL65 | Perennial, ice longer 210 days, over 500 acres | n/a |
| WL90 | Intermittent lake, pond, impoundment | n/a |
| WO | Oceans, seas, saline water bodies | n/a |
| WO10 | Water, deep, abyss | n/a |
| WO20 | Ocean intertidal beach | n/a |
| WO30 | Oceanic continental shelf | n/a |
| WR | Running water-stream, river, creek, ditch | n/a |
| WR10 | Perennial, max mo. mean temperature less 45F(7C) | n/a |
| WR11 | Perennial, max mo. mean temp less 45F, less 1% grade | n/a |
| WR12 | Perennial, max mo. mean temp less 45F, 1-3% grade | n/a |
| WR13 | Perennial, max mo. mean temp less 45F, 3-6% grade | n/a |
| WR14 | Perennial, max mo. mean temp less 45F, 6-12% grade | n/a |
| WR15 | Perennial, max mo. mean temp less 45F, more 12% grade | n/a |
| WR20 | Perennial, max mo. mean temperature 45F-55F(7C-13C) | n/a |
| WR21 | Perennial, max mo. temp 45F-55F, less 1% grade | n/a |
| WR22 | Perennial, max mo. temp 45F-55F, 1-3% grade | n/a |
| WR23 | Perennial, max mo. temp 45F-55F, 3-6% grade | n/a |
| WR24 | Perennial, max mo. temp 45F-55F, 6-12% grade | n/a |
| WR25 | Perennial, max mo. temp 45F-55F, greater 12% grade | n/a |
| WR30 | Perennial, max mo. mean temperature 55F-65F (13C-18C) | n/a |
| WR31 | Perennial, max mo. temp 55F-65F, less 1% grade | n/a |
| WR32 | Perennial, max mo. temp 55F-65F, 1-3% grade | n/a |
| WR33 | Perennial, max mo. temp 55F-65F, 3-6% grade | n/a |
| WR34 | Perennial, max mo. temp 55F-65F, 6-12% grade | n/a |
| WR35 | Perennial, max mo. temp 55F-65F, greater 12% grade | n/a |
| WR40 | Perennial, max mo. mean temperature 65F-75F (18C-24C) | n/a |
| WR41 | Perennial, max mo. temp 65F-75F, less 1% grade | n/a |
| WR42 | Perennial, max mo. temp 65F-75F, 1-3% grade | n/a |
| WR43 | Perennial, max mo. temp 65F-75F, 3-6% grade | n/a |
| WR44 | Perennial, max mo. temp 65F-75F, 6-12% grade | n/a |
| WR45 | Perennial, max mo. temp 65F-75F, greater 12% grade | n/a |
| WR50 | Perennial, max mo. mean temperature greater 75F (24C) | n/a |
| WR51 | Perennial, max mo. temp greater 75F, less 1% grade | n/a |
| WR52 | Perennial, max mo. temp greater 75F, 1-3% grade | n/a |
| WR53 | Perennial, max mo. temp greater 75F, 3-6% grade | n/a |
| WR54 | Perennial, max mo. temp greater 75F, 6-12% grade | n/a |
| WR55 | Perennial, max mo. temp greater 75F, 12% grade | n/a |
| WR90 | Intermittent streams, rivers | n/a |
| WS115 | White fir/snowbrush ceanothus-longstalk sedge | ABCO/CEVE-CAPE4 |
| WS116 | White fir/snowbrush ceanothus-squawcarpet-Virginia strawberry | ABCO/CEVE-CEPR-FRVI |
| WX | Water (no association specified) | 2W |

Table 46: Reference Code 640

| **PV\_CODE** | **COMMON\_NAME** | **SCIENTIFIC\_NAME** |
| --- | --- | --- |
| CAF0 | Subalpine fir-whitebark pine/Jacob’s ladder | ABLA-PIAL/POPU3 |
| CAF2 | Subalpine fir-whitebark pine/fleeceflower | ABLA-PIAL/POPH |
| CAF322 | Whitebark pine/prickly sandwort | PIAL/ARAC2 |
| CAF323 | Whitebark pine/silvery lupine | PIAL/LUAR3 |
| CAF324 | Subalpine fir-whitebark pine/prickly sandwort | ABLA-PIAL/ARAC2 |
| CAG111 | Subalpine fir/elk sedge | ABLA/CAGE2 |
| CAG131 | Whitebark pine/elk sedge | PIAL/CAGE2 |
| CAG132 | Subalpine fir-whitebark pine/Parry’s rush-Lemmon’s needlegrass | ABLA-PIAL/JUPA-STLE2 |
| CAG133 | Subalpine fir-whitebark pine/elk sedge | ABLA-PIAL/CAGE2 |
| CAG221 | Whitebark pine/green fescue | PIAL/FEVI |
| CAG222 | Subalpine fir-whitebark pine/green fescue | ABLA-PIAL/FEVI |
| CAG3 | Subalpine fir-whitebark pine/Drummond’s rush | ABLA-PIAL/JUDR |
| CAS311 | Whitebark pine/grouse huckleberry/smooth woodrush | PIAL/VASC/LUHI4 |
| CAS312 | Whitebark pine/grouse huckleberry/heartleaf arnica | PIAL/VASC/ARCO9 |
| CAS313 | Whitebark pine/grouse huckleberry/prickly sandwort | PIAL/VASC/ARAC2 |
| CAS422 | Whitebark pine/mountain juniper/pinemat manzanita | PIAL/JUCO6/ARNE |
| CAS423 | Subalpine fir-whitebark pine/mountain juniper-pinemat manzanita | ABLA-PIAL/JUCO6-ARNE |
| CAS424 | Subalpine fir-whitebark pine/mountain juniper | ABLA-PIAL/JUCO6 |
| CAS511 | Limber pine/mountain juniper | PIFL2/JUCO6 |
| CAS512 | Whitebark pine/mountain gooseberry/Jacob’s ladder | PIAL/RIMO2/POPU3 |
| CAS611 | Subalpine fir-whitebark pine/mountain gooseberry/Jacob’s ladder | ABLA-PIAL/RIMO2/POPU3 |
| CAS621 | Subalpine fir-whitebark pine/grouse huckleberry/heartleaf arnica | ABLA-PIAL/VASC/ARCO9 |
| CAS622 | Subalpine fir-whitebark pine/grouse huckleberry/Ross’ sedge | ABLA-PIAL/VASC/CARO5 |
| CAS623 | Subalpine fir-whitebark pine/grouse huckleberry/prickly sandwort | ABLA-PIAL/VASC/ARAC2 |
| CAS624 | Subalpine fir-whitebark pine/grouse huckleberry-pink mountain heather | ABLA-PIAL/VASC-PHEM |
| CAS625 | Subalpine fir-whitebark pine/grouse huckleberry/green fescue | ABLA-PIAL/VASC/FEVI |
| CAS626 | Subalpine fir-whitebark pine/grouse huckleberry/little ricegrass | ABLA-PIAL/VASC/OREX |
| CAS627 | Subalpine fir-whitebark pine/grouse huckleberry/Wallowa lewisia | ABLA-PIAL/VASC/LECOW2 |
| CAS628 | Subalpine fir-whitebark pine/grouse huckleberry-pink mountain heather (avalanche) | ABLA-PIAL/VASC-PHEM (AVALANCHE) |
| CAS629 | Subalpine fir-whitebark pine/grouse huckleberry/green fescue (avalanche) | ABLA-PIAL/VASC/FEVI (AVALANCHE) |
| CDF313 | Douglas-fir/western bugbane | PSME/TRCAO |
| CDG111 | Douglas-fir/elk sedge | PSME/CAGE2 |
| CDG112 | Douglas-fir/pinegrass | PSME/CARU |
| CDG121 | Douglas-fir/pinegrass | PSME/CARU |
| CDG333 | Douglas-fir-ponderosa pine-western juniper/Idaho fescue | PSME-PIPO-JUOC/FEID |
| CDS611 | Ponderosa pine-Douglas-fir/common snowberry-oceanspray | PIPO-PSME/SYAL-HODI |
| CDS622 | Douglas-fir/common snowberry | PSME/SYAL |
| CDS623 | Douglas-fir/mountain snowberry | PSME/SYOR2 |
| CDS624 | Douglas-fir/common snowberry | PSME/SYAL |
| CDS625 | Douglas-fir/mountain snowberry | PSME/SYOR2 |
| CDS628 | Douglas-fir/common snowberry (floodplain) | PSME/SYAL |
| CDS634 | Douglas-fir/white spirea | PSME/SPBE2 |
| CDS642 | Douglas-fir/mountain snowberry/elk sedge | PSME/SYOR2/CAGE2 |
| CDS664 | Douglas-fir/pinemat manzanite/elk sedge | PSME/ARNE/CAGE2 |
| CDS711 | Douglas-fir/ninebark | PSME/PHMA5 |
| CDS722 | Douglas-fir/Rocky Mountain maple-ninebark | PSME/ACGL-PHMA5 |
| CDS724 | Douglas-fir/Rocky Mountain maple-mallow ninebark (floodplain) | PSME/ACGL-PHMA5 (FLOODPLAIN) |
| CDS725 | Douglas-fir/Rocky Mountain maple-mountain snowberry | PSME/ACGL-SYOR2 |
| CDS812 | Douglas-fir/big huckleberry | PSME/VAME |
| CDS821 | Douglas-fir/big huckleberry | PSME/VAME |
| CDS911 | Douglas-fir/mountain gooseberry/Jacob’s ladder | PSME/RIMO2/POPU3 |
| CDSD | Douglas-fir/mountain mahogany/elk sedge | PSME/CELE3/CAGE2 |
| CEF111 | Subalpine fir/beargrass | ABLA/XETE |
| CEF2 | Subalpine fir-Englemann spruce/twinflower | ABLA-PIEN/LIBO3 |
| CEF221 | Subalpine fir/twinflower | ABLA/LIBO3 |
| CEF311 | Subalpine fir/twisted stalk | ABLA/STAM2 |
| CEF331 | Subalpine fir/false bugbane | ABLA/TRCA |
| CEF332 | Subalpine fir/ladyfern | ABLA/ATFI |
| CEF333 | Subalpine fir/arrowleaf groundsel | ABLA/SETR |
| CEF334 | Engelmann spruce/ladyfern | PIEN/ATFI |
| CEF335 | Engelmann spruce/arrowleaf groundsel | PIEN/SETR |
| CEF336 | Subalpine fir-Englemann spruce/arrowleaf groundsel | ABLA-PIEN/SETR |
| CEF411 | Subalpine fir/Jacob’s ladder | ABLA/POPU3 |
| CEF412 | Subalpine fir/heartleaf arnica | ABLA/ARCO9 |
| CEF425 | Subalpine fir-Englemann spruce/False bugbane | ABLA-PIEN/TRCA |
| CEF426 | Subalpine fir-Englemann spruce/Jacob’s ladder | ABLA-PIEN/POPU3 |
| CEF435 | Subalpine fir/heartleaf arnica | ABLA/ARCO9 |
| CEF436 | Subalpine fir-Englemann spruce/heartleaf arnica | ABLA-PIEN/ARCO9 |
| CEF437 | Subalpine fir-Englemann spruce/queen’s cup beadlily | ABLA-PIEN/CLUN2 |
| CEF511 | Subalpine fir/alpine fleeceflower | ABLA/POPH |
| CEG131 | Subalpine fir-Englemann spruce/smooth woodrush | ABLA-PIEN/LUHI4 |
| CEG201 | Englemann spruce-subalpine fir/Holm’s Rocky Mountain sedge | PIEN-ABLA/CASC12 |
| CEG312 | Subalpine fir/pinegrass | ABLA/CARU |
| CEG323 | Subalpine fir/western needlegrass | ABLA/STOC2 |
| CEG411 | Subalpine fir/green fescue | ABLA/FEVI |
| CEG412 | Subalpine fir/drummond’s rush | ABLA/JUDR |
| CEG413 | Subalpine fir/slender rush | ABLA/JUTE |
| CEG414 | Subalpine fir/Parry’s rush (avalanche) | ABLA/JUPA (AVALANCHE) |
| CEM121 | Engelmann spruce/softleaf sedge | PIEN/CADI6 |
| CEM122 | Subalpine fir/softleaf sedge | ABLA/CADI6 |
| CEM123 | Subalpine fir/water sedge | ABLA/CAAQ |
| CEM124 | Subalpine fir/bluejoint | ABLA/CACA4 |
| CEM125 | Engelmann spruce/Columbia brome | PIEN/BRVU |
| CEM126 | Engelmann spruce/drooping woodreed | PIEN/CILA2 |
| CEM201 | Engelmann spruce-subalpine fir/arrowleaf groundsel | PIEN-ABLA/SETR |
| CEM211 | Engelmann spruce/common horsetail | PIEN/EQAR |
| CEM313 | Subalpine fir/bog blueberry/broom sedge | ABLA/VAUL/CASC11 |
| CES131 | Subalpine fir/queencup beadlily | ABLA/CLUN2 |
| CES2 | Subalpine fir-Englemann spruce/rusty menziesia | ABLA-PIEN/MEFE |
| CES214 | Subalpine fir/Cascade azalea | ABLA/RHAL2 |
| CES215 | Subalpine fir-Englemann spruce/white rhododendron | ABLA-PIEN/RHAL2 |
| CES221 | Subalpine fir/rusty menziesia | ABLA/MEFE |
| CES311 | Subalpine fir/big huckleberry | ABLA/VAME |
| CES314 | Subalpine fir/queencup beadlily | ABLA/CLUN2 |
| CES315 | Subalpine fir/big huckleberry | ABLA/VAME |
| CES316 | Subalpine fir/big huckleberry (floodplain) | ABLA/VAME (FLOODPLAIN) |
| CES411 | Subalpine fir/grouse huckleberry | ABLA/VASC |
| CES414 | Subalpine fir/twinflower | ABLA/LIBO3 |
| CES415 | Subalpine fir/grouse huckleberry/Jacob’s ladder | ABLA/VASC/POPU3 |
| CES427 | Subalpine fir-Englemann spruce/grouse huckleberry-pink mountain heath | ABLA-PIEN/VASC-PHEM |
| CES428 | Subalpine fir/grouse huckleberry-pink mountain heather | ABLA/VASC-PHEM |
| CES429 | Subalpine fir/pinemat manzanita/prickly sandwort | ABLA/ARNE/ARAC2 |
| CES511 | Engelmann spruce/red osier dogwood | PIEN/COST4 |
| CES610 | Subalpine fir-Englemann spruce/Labrador tea (floodplain) | ABLA-PIEN/LEGL (FLOODPLAIN) |
| CES612 | Subalpine fir-Englemann spruce/Labrador tea | ABLA-PIEN/LEGL |
| CES710 | Subalpine fir-Englemann spruce/rusty menziesia (floodplain) | ABLA-PIEN/MEFE (FLOODPLAIN) |
| CES8 | Subalpine fir-western white pine/prince’s pine | ABLA-PIMO3/CHUM |
| CJC1 | Mountain juniper | JUCO6 |
| CJG111 | Western juniper/Idaho fescue-bluebunch wheatgrass | JUOC/FEID-AGSP |
| CJG113 | Western juniper/bluebunch wheatgrass | JUOC/AGSP |
| CJS1 | Western juniper/low sagebrush | JUOC/ARAR8 |
| CJS111 | Western juniper/low sagebrush | JUOC/ARAR8 |
| CJS112 | Western juniper/low sagebrush/Idaho fescue | JUOC/ARAR8/FEID |
| CJS2 | Western juniper/mountain big sagebrush/Idaho fescue-bluebunch wheatgrass | JUOC/ARTRV/FEID-AGSP |
| CJS211 | Western juniper/mountain big sagebrush | JUOC/ARTRV |
| CJS321 | Western juniper/bitterbrush/Idaho fescue-bluebunch wheatgrass | JUOC/PUTR2/FEID-AGSP |
| CJS41 | Western juniper/curl-leaf mountain mahogany/Idaho fescue-bluebunch wheatgrass | JUOC/CELE3/FEID-PSSPS |
| CJS42 | Western juniper/curl-leaf mountain mahogany/Geyer’s sedge | JUOC/CELE3/CAGE2 |
| CJS5 | Rocky Mountain juniper-mountain mahogany | JUSC2/CELE3 |
| CJS8 | Western juniper/stiff sagebrush | JUOC/ARRI2 |
| CJS811 | Western juniper/stiff sagebrush (scabland) | JUOC/ARRI2 (SCAB) |
| CLF211 | Lodgepole pine-grand fir/twinflower | PICO-ABGR/LIBO3 |
| CLG11 | Lodgepole pine-subalpine fir/needle and thread | PICO-ABLA/HECO26 |
| CLG21 | Lodgepole pine-grand fir/pinegrass | PICO-ABGR/CARU |
| CLG211 | Lodgepole pine(grand fir)/grouse huckleberry/pinegrass | PICO(ABGR)/VASC/CARU |
| CLG322 | Lodgepole pine-subalpine fir/Geyer’s sedge | PICO-ABLA/CAGE2 |
| CLM112 | Lodgepole pine/Kentucky bluegrass | PICO/POPR |
| CLM114 | Lodgepole pine/aquatic sedge | PICO/CAAQ |
| CLM115 | Lodgepole pine/tufted hairgrass | PICO/DECE |
| CLM116 | Lodgepole pine/woolly sedge | PICO/CAPE42 |
| CLM117 | Lodgepole pine/bluejoint | PICO/CACA4 |
| CLM118 | Lodgepole pine/Holm’s Rocky Mountain sedge | PICO/CASC12 |
| CLM511 | Lodgepole pine/thinleaf alder/mesic forb | PICO/ALINT/2FORB |
| CLS411 | Lodgepole pine(subalpine fir)/grouse huckleberry | PICO(ABLA)/VASC |
| CLS415 | Lodgepole pine(subalpine fir)/grouse huckleberry/Jacob’s ladder | PICO(ABLA)/VASC/POPU3 |
| CLS416 | Lodgepole pine/pinegrass | PICO/CARU |
| CLS417 | Lodgepole pine-grand fir/grouse whortleberry/pinegrass | PICO-ABGR/VASC/CARU |
| CLS418 | Lodgepole pine-subalpine fir/grouse whortleberry | PICO-ABLA/VASC |
| CLS5 | Lodgepole pine(grand fir)/big huckleberry/twinflower | PICO(ABGR)/VAME-LIBO3 |
| CLS511 | Lodgepole pine/big huckleberry | PICO/VAME |
| CLS512 | Lodgepole pine-grand fir/thinleaf huckleberry/pinegrass | PICO-ABGR/VAME/CARU |
| CLS513 | Lodgepole pine-grand fir/thinleaf huckleberry | PICO-ABGR/VAME |
| CLS514 | Lodgepole pine-subalpine fir/thinleaf huckleberry | PICO-ABLA/VAME |
| CLS515 | Lodgepole pine(subalpine fir)/big huckleberry | PICO(ABLA)/VAME |
| CLS516 | Lodgepole pine-subalpine fir/thinleaf huckleberry/pinegrass | PICO-ABLA/VAME/CARU |
| CLS519 | Lodgepole pine-grand fir/thinleaf huckleberry/western brackenfern | PICO-ABGR/VAME/PTAQ |
| CLS57 | Lodgepole pine-grand fir/pinemat manzanita | PICO-ABGR/ARNE |
| CLS58 | Lodgepole pine-grand fir/Sitka alder | PICO-ABGR/ALVIS |
| CMS131 | Mountain hemlock/grouse huckleberry | TSME/VASC |
| CMS231 | Mountain hemlock/big huckleberry | TSME/VAME |
| CPC212 | Ponderosa pine-western juniper/mountain mahogany-mountain snowberry | PIPO-JUOC/CELE3-SYOR2 |
| CPG111 | Ponderosa pine/bluebunch wheatgrass | PIPO/AGSP |
| CPG112 | Ponderosa pine/Idaho fescue | PIPO/FEID |
| CPG131 | Ponderosa pine/Idaho fescue | PIPO/FEID |
| CPG132 | Ponderosa pine/bluebunch wheatgrass | PIPO/AGSP |
| CPG221 | Ponderosa pine/pinegrass | PIPO/CARU |
| CPG222 | Ponderosa pine/elk sedge | PIPO/CAGE2 |
| CPM111 | Ponderosa pine/blue wildrye | PIPO/ELGL |
| CPM112 | Ponderosa pine/Kentucky bluegrass | PIPO/POPR |
| CPS131 | Ponderosa pine/mountain big sagebrush/Idaho fescue-bluebunch wheatgrass | PIPO/ARTRV/FEID-AGSP |
| CPS132 | Ponderosa pine/big sagebrush/Geyer’s sedge | PIPO/ARTR2/CAGE2 |
| CPS221 | Ponderosa pine/bitterbrush/Ross’ sedge | PIPO/PUTR2/CARO5 |
| CPS222 | Ponderosa pine/bitterbrush/elk sedge | PIPO/PUTR2/CAGE2 |
| CPS226 | Ponderosa pine/bitterbrush/Idaho fescue-bluebunch wheatgrass | PIPO/PUTR2/FEID-AGSP |
| CPS229 | Ponderosa pine/bitterbrush/bluebunch wheatgrass-Sandberg’s bluegrass | PIPO/PUTR2/AGSP-POSA12 |
| CPS231 | Ponderosa pine/bitterbrush/bluebunch wheatgrass | PIPO/PUTR2/AGSP |
| CPS232 | Ponderosa pine/mountain mahogany/elk sedge | PIPO/CELE3/CAGE2 |
| CPS233 | Ponderosa pine/mountain mahogany/Wheeler’s bluegrass | PIPO/CELE3/PONEW |
| CPS234 | Ponderosa pine/mountain mahogany/Idaho fescue-bluebunch wheatgrass | PIPO/CELE3/FEID-AGSP |
| CPS511 | Ponderosa pine/common snowberry (floodplain) | PIPO/SYAL (FLOODPLAIN) |
| CPS522 | Ponderosa pine/common snowberry | PIPO/SYAL |
| CPS523 | Ponderosa pine/birchleaf spiraea | PIPO/SPBE2 |
| CPS524 | Ponderosa pine/common snowberry | PIPO/SYAL |
| CPS525 | Ponderosa pine/mountain snowberry | PIPO/SYOR2 |
| CPS61 | Ponderosa pine/little sagebrush | PIPO/ARAR8 |
| CPS722 | Ponderosa pine/black hawthorn | PIPO/CRDO2 |
| CPS8 | Ponderosa pine/squaw apple | PIPO/PERA4 |
| CPS9 | Ponderosa pine/smooth sumac | PIPO/RHGL |
| CQM111 | Western white pine/tufted hairgrass | PIMO3/DECA18 |
| CWC811 | Grand fir/Pacific yew/queencup beadlily | ABGR/TABR2/CLUN2 |
| CWC812 | Grand fir/Pacific yew/twinflower | ABGR/TABR2/LIBO3 |
| CWF311 | Grand fir/twinflower | ABGR/LIBO3 |
| CWF312 | Grand fir/twinflower | ABGR/LIBO3 |
| CWF421 | Grand fir/queencup beadlily | ABGR/CLUN2 |
| CWF422 | Grand fir/Pacific yew/queencup beadlily | ABGR/TABR2/CLUN2 |
| CWF424 | Grand fir/Pacific yew/twinflower (floodplain) | ABGR/TABR2/LIBO3 (FLOODPLAIN) |
| CWF444 | Grand fir/heartleaf arnica | ABGR/ARCO9 |
| CWF511 | Grand fir/goldthread | ABGR/COOC |
| CWF512 | Grand fir/false bugbane | ABGR/TRCA |
| CWF611 | Grand fir/oakfern | ABGR/GYDR |
| CWF612 | Grand fir/sword fern-ginger | ABGR/POMU-ASCA2 |
| CWF613 | Grand fir/ladyfern | ABGR/ATFI |
| CWG111 | Grand fir/elk sedge | ABGR/CAGE2 |
| CWG112 | Grand fir/pinegrass | ABGR/CARU |
| CWG113 | Grand fir/pinegrass | ABGR/CARU |
| CWG211 | Grand fir/Columbia brome | ABGR/BRVU |
| CWM311 | Grand fir/woolly sedge | ABGR/CAPE42 |
| CWS211 | Grand fir/big huckleberry | ABGR/VAME |
| CWS212 | Grand fir/big huckleberry | ABGR/VAME |
| CWS232 | Grand fir-Alaska cedar/thinleaf huckleberry | ABGR-CHNO/VAME |
| CWS314 | Grand fir/common snowberry (floodplain) | ABGR/SYAL (FLOODPLAIN) |
| CWS321 | Grand fir/birchleaf spiraea | ABGR/SPBE2 |
| CWS322 | Grand fir/birchleaf spiraea | ABGR/SPBE2 |
| CWS412 | Grand fir/Rocky Mountain maple-ninebark | ABGR/ACGL-PHMA5 |
| CWS423 | Grand fir/black hawthorn/Dewey’s sedge | ABGR/CRDO2/CADE9 |
| CWS541 | Grand fir/Rocky Mountain maple | ABGR/ACGL |
| CWS543 | Grand fir/Rocky Mountain maple (floodplain) | ABGR/ACGL (FLOODPLAIN) |
| CWS811 | Grand fir/grouse huckleberry | ABGR/VASC |
| CWS812 | Grand fir/grouse huckleberry-twinflower | ABGR/VASC-LIBO3 |
| CWS912 | Grand fir/Rocky Mountain maple | ABGR/ACGL |
| FM9111 | Douglas’ buckwheat-Sandberg’s bluegrass | ERDO-POSA12 |
| FM9112 | Strict buckwheat/Sandberg’s bluegrass | ERST4-POSA12 |
| FM9113 | Sulphurflower (ridge) | ERUM (RIDGE) |
| FS1113 | Linanthastrum-cymopterus | LINU4-CYTEF |
| FS5912 | Alpine fleeceflower-green fescue | POPH-FEVI |
| FS5913 | Alpine fleeceflower-pinegrass-elk sedge | POPH-CARU-CAGE2 |
| FS5914 | Alpine fleeceflower-elk sedge-linanthastrum | POPH-CAGE2-LINU4 |
| FS5915 | Alpine fleeceflower-horsemint-linanthastrum | POPH-AGUR-LINU4 |
| FS5916 | Alpine fleeceflower (cornices) | POPH (CORNICES) |
| FS80 | Linanthastrum-mountain mugwort | LINU4-ARLU |
| FS81 | Western coneflower-tarweed | RUOC2-MAGL2 |
| FS8101 | Western coneflower | RUOC2 |
| FS8111 | Bracken fern-Hood’s sedge | PTAQ-CAHO5 |
| FS8112 | Mountain balm | MOOD |
| FS8113 | Pygmy lewisia-tarweed | LEPY2-MAGL2 |
| FS8115 | Linanthastrum-longleaf arnica | LINU4-ARLO6 |
| FS8116 | Golden buckwheat-coiled parrot’s beak | ERFL4-PECO6 |
| FS8117 | Phlox-cymopteris | PHLOX-CYTEF |
| FS8118 | Phlox-Ivesia | PHLOX-IVGO |
| FS90 | Scree | SCREE |
| FS91 | Rock outcrop | ROCK OUTCROP |
| FS92 | Grus | GRUS |
| FW3911 | Cusick’s camas (seep) | CACU2 (SEEP) |
| FW4211 | Arrowleaf groundsel | SETR |
| FW4212 | Common horsetail | EQAR |
| FW4213 | Maidenhair fern | ADPE |
| FW4214 | Arrowleaf groundsel-purple monkeyflower | SETR-MILE2 |
| FW51 | False hellebore | VERAT |
| FW5121 | False hellebore | VERAT |
| FW6111 | Buckbean | METR3 |
| FW6112 | American speedwell | VEAM2 |
| FW6113 | Brook saxifrage | SAOD2 |
| FW7111 | Pacific onion | ALMAG |
| FX4111 | Wallowa lewisia (rim) | LECOW2 (RIM) |
| GB1211 | Sand dropseed (terrace) | SPCR (TERRACE) |
| GB1911 | Bluebunch wheatgrass-sand dropseed-red threeawn | AGSP-SPCR-ARLO3 |
| GB41 | Bluebunch wheatgrass-Sandberg’s bluegrass | AGSP-POSA12 |
| GB4111 | Bluebunch wheatgrass-Wyeth’s buckwheat | AGSP-ERHE2 |
| GB4112 | Bluebunch wheatgrass-Sandberg’s bluegrass-narrowleaf skullcap | AGSP-POSA12-SCAN3 |
| GB4113 | Bluebunch wheatgrass-Sandberg’s bluegrass (basalt) | AGSP-POSA12 (BASALT) |
| GB4114 | Bluebunch wheatgrass-Sandberg’s bluegrass-Cusick’s milkvetch | AGSP-POSA12-ASCU5 |
| GB4115 | Bluebunch wheatgrass-Sandberg’s bluegrass-shaggy fleabane | AGSP-POSA12-ERPU2 |
| GB4116 | Bluebunch wheatgrass-Sandberg’s bluegrass (granite) | AGSP-POSA12 (GRANITE) |
| GB4117 | Bluebunch wheatgrass-Sandberg’s bluegrass-Snake River phlox | AGSP-POSA12-PHCO10 |
| GB4118 | Bluebunch wheatgrass-Sandberg’s bluegrass-pricklypear | AGSP-POSA12-OPPO |
| GB4119 | Bluebunch wheatgrass-Sandberg’s bluegrass-lupine | AGSP-POSA12-LUPIN |
| GB4121 | Bluebunch wheatgrass-Sandberg’s bluegrass | AGSP-POSA12 |
| GB4123 | Bluebunch wheatgrass-Sandberg’s bluegrass-arrowleaf balsamroot | AGSP-POSA12-BASA3 |
| GB4124 | Bluebunch wheatgrass-Sandberg’s bluegrass-creamy buckwheat | AGSP-POSA12-ERHE2 |
| GB4125 | Bluebunch wheatgrass-Sandberg’s bluegrass-Blue Mountain milkvetch | AGSP-POSA12-ASRE5 |
| GB4126 | Bluebunch wheatgrass-Sandberg’s bluegrass-bighead clover | AGSP-POSA12-TRMA3 |
| GB4127 | Bluebunch wheatgrass-Sandberg’s bluegrass-spreading dogbane | AGSP-POSA12-APAN2 |
| GB4131 | Bluebunch wheatgrass-mountain brome | AGSP-BRCA5 |
| GB4132 | Bluebunch wheatgrass-sulfur-flower buckwheat | AGSP-ERUM |
| GB4133 | Bluebunch wheatgrass-turpentine cymopterus | AGSP-CYTEF |
| GB4411 | Bulbous bluegrass-cluster tarweed | POBU-MAGL2 |
| GB4911 | Bluebunch wheatgrass-Sandberg’s bluegrass-onespike oatgrass | AGSP-POSA12-DAUN |
| GB4915 | Creeping Oregon-grape/bluebunch wheatgrass-spreading dogbane | BERE/AGSP-APAN2 |
| GB5011 | Oniongrass-western needlegrass | MEBU-STOC2 |
| GB5121 | Common snowberry/Idaho fescue-bluebunch wheatgrass-Lupine | SYAL/FEID-AGSP-LUSE4 |
| GB59 | Idaho fescue-bluebunch wheatgrass | FEID-AGSP |
| GB5911 | Idaho fescue-prairie junegrass (ridge) | FEID-KOCR (RIDGE) |
| GB5912 | Idaho fescue-prairie junegrass (mound) | FEID-KOCR (MOUND) |
| GB5913 | Idaho fescue-prairie junegrass (high elevation) | FEID-KOCR (HIGH) |
| GB5914 | Idaho fescue-prairie junegrass (low elevation) | FEID-KOCR (LOW) |
| GB5915 | Idaho fescue-bluebunch wheatgrass (ridge) | FEID-AGSP (RIDGE) |
| GB5916 | Idaho fescue-bluebunch wheatgrass-lupine | FEID-AGSP-LUPIN |
| GB5917 | Idaho fescue-bluebunch wheatgrass-arrowleaf balsamroot | FEID-AGSP-BASA3 |
| GB5918 | Idaho fescue-bluebunch wheatgrass-Snake River phlox | FEID-AGSP-PHCO10 |
| GB5919 | Common snowberry/Idaho fescue-prairie junegrass | SYAL/FEID-KOCR |
| GB5920 | Idaho fescue-timber oatgrass-Liddon’s sedge | FEID-DAIN-CAPE7 |
| GB5921 | Idaho fescue-Hood’s sedge | FEID-CAHO5 |
| GB5922 | Idaho fescue-elk sedge | FEID-CAGE2 |
| GB5923 | Idaho fescue-red avens | FEID-GETR |
| GB5924 | Idaho fescue-Wallowa penstemon | FEID-PESP2 |
| GB5925 | Idaho fescue-bluebunch wheatgrass-cymopterus | FEID-AGSP-CYTEF |
| GB5926 | Idaho fescue-bluebunch wheatgrass-Cusick’s frasera | FEID-AGSP-FRALC2 |
| GB5927 | Idaho fescue-bluebunch wheatgrass-Wheeler’s bluegrass | FEID-AGSP-PONEW |
| GB5931 | Idaho fescue-bluebunch wheatgrass-phlox | FEID-AGSP-PHLOX |
| GB5932 | Idaho Fescue-onespike oatgrass | FEID-DAUN |
| GB6011 | Rough fescue-Idaho fescue | FESC-FEID |
| GB7111 | Basin wildrye | ELCI2 |
| GB9111 | Sandberg’s bluegrass-onespike oatgrass | POSA12-DAUN |
| GB9112 | Sandberg’s bluegrass-lanceleaf stonecrop | POSA12-SELA |
| GB9114 | Onespike oatgrass-slenderfruit lomatium | DAUN-LOLE2 |
| GM4111 | Bluejoint reedgrass | CACA4 |
| GS10 | Western needlegrass | STOC2 |
| GS11 | Green fescue | FEVI |
| GS1111 | Green fescue-Hood’s sedge | FEVI-CAHO5 |
| GS1112 | Green fescue-spurred lupine | FEVI-LULA3 |
| GS1113 | Green fescue-Parry’s rush | FEVI-JUPA |
| GS1114 | Green fescue-Ross’ sedge | FEVI-CARO5 |
| GS1115 | Green fescue-penstemon | FEVI-PENST |
| GS1116 | Green fescue-western needlegrass | FEVI-STOC2 |
| GS1117 | Green fescue-Canby’s lovage | FEVI-LICA2 |
| GS1118 | Green fescue-bearded wheatgrass | FEVI-AGCA2 |
| GS1119 | Green fescue-Holm's Rocky Mountain sedge | FEVI-CASC12 |
| GS12 | Idaho fescue (alpine) | FEID (ALPINE) |
| GS39 | Geyer’s sedge (upland) | CAGE2 |
| GS3911 | Elk sedge (alpine) | CAGE2 (ALPINE) |
| GS3912 | Hood’s sedge | CAHO5 |
| GS3913 | Elk sedge-Parry’s rush | CAGE2-JUPA |
| GS3914 | Elk sedge-pinegrass | CAGE2-CARU |
| GS3915 | Elk sedge-Cusick’s bluegrass | CAGE2-POCU3 |
| GS3916 | Elk sedge-desert phlox | CAGE2-PHAU3 |
| GS3917 | Elk sedge-western needlegrass | CAGE2-STOC2 |
| GS4011 | Alpine sedges-western needlegrass | CAREX-STOC2 |
| GS4012 | Hood’s sedge-mountain brome (meadow) | CAHO5-BRCA5 (MEADOW) |
| GS4013 | Parry’s rush-pale agoseris | JUPA-AGGL |
| GS50 | Western needlegrass-squirreltail (alpine) | STOC2-SIHY (ALPINE) |
| GS60 | Fellfield | FELLFIELD |
| GS61 | Hood’s sedge-mountain brome | CAHO5-BRCA5 |
| GS62 | Hood’s sedge-elk sedge | CAHO5-CAGE2 |
| GS63 | Hood’s sedge-sticky cinquefoil | CAHO5-POGL9 |
| GS64 | Hood’s sedge | CAHO5 |
| GS70 | Turf | TURF |
| HAF211 | Red alder/sweet coltsfoot | ALRU2/PEFRP |
| HAF226 | Red alder (alluvial bar) | ALRU2 |
| HAF227 | Red alder/common ladyfern | ALRU2/ATFI |
| HAS211 | Red alder/Pacific ninebark | ALRU2/PHCA11 |
| HAS312 | Red alder/common snowberry | ALRU2/SYAL |
| HAS511 | Red alder/redosier dogwood | ALRU2/COSES |
| HCS112 | Black cottonwood/Pacific willow | POTR15/SALA5 |
| HCS113 | Black cottonwood/mountain alder-red osier dogwood | POTR15/ALIN2-COST4 |
| HCS114 | Black cottonwood/Rocky Mountain maple | POTR15/ACGL |
| HCS311 | Black cottonwood/common snowberry | POTR15/SYAL |
| HCS312 | Black cottonwood/common snowberry | POTR15/SYAL |
| HD01 | Rocky Mountain maple | ACGL |
| HQG112 | Quaking aspen/elk sedge | POTR5/CAGE2 |
| HQM122 | Quaking aspen/Kentucky bluegrass | POTR5/POPR |
| HQM123 | Quaking aspen/bluejoint reedgrass | POTR5/CACA4 |
| HQM211 | Quaking aspen/woolly sedge | POTR5/CALA30 |
| HQM212 | Quaking aspen/water sedge | POTR5/CAAQ |
| HQM511 | Quaking aspen/mesic forb | POTR5/2FORB |
| HQS221 | Quaking aspen/common snowberry | POTR5/SYAL |
| HQS222 | Quaking aspen/thinleaf alder/redosier dogwood | POTR5/ALINT/COSES |
| HQS223 | Quaking aspen/thinleaf alder-common snowberry | POTR5/ALINT-SYAL |
| MD2111 | Meadow foxtail | ALPR3 |
| MD3111 | Kentucky bluegrass (dry meadow) | POPR (DRY MEADOW) |
| MD3112 | Kentucky bluegrass (degenerated bench) | POPR (DEGEN BENCH) |
| MD4111 | Seashore bentgrass | AGPA8 |
| MM1912 | Tufted hairgrass | DECE |
| MM2911 | Woolly sedge | CALA30 |
| MM2912 | Nebraska sedge | CANE2 |
| MM2913 | Widefruit sedge | CAEU2 |
| MM2914 | Aquatic sedge | CAAQ |
| MM2915 | Shortbeaked sedge | CASI2 |
| MM2916 | Woodrush sedge | CALU7 |
| MM2917 | Bladder sedge | CAUT |
| MM2918 | Cusick’s sedge | CACU5 |
| MM2919 | Lakeshore sedge | CALE8 |
| MM2920 | Slender sedge | CALA11 |
| MM2921 | Bigleaf sedge | CAAM10 |
| MM2922 | Torrent sedge | CANU5 |
| MM2924 | Small-fruit bulrush | SCMI2 |
| MM2925 | Tall mannagrass | GLEL |
| MM2926 | Bog alkaligrass | PUCCI |
| MM2927 | Sierra hare sedge | CALE9 |
| MM2928 | Mud sedge | CALI7 |
| MM2929 | Smallwing sedge | CAMI7 |
| MM2930 | Brown sedge | CASU6 |
| MM2932 | Sheldon’s sedge | CASH |
| MM2933 | Jones’ sedge | CAJO |
| MS2111 | Black alpine sedge | CANI2 |
| MS2113 | Northern singlespike sedge-brook saxifrage (spring) | CASC10-SAAR13 |
| MS3111 | Holm’s Sedge | CASC12 |
| MS3112 | Star sedge | CAECE |
| MS3113 | Bluejoint | CACA4 |
| MS4111 | Beautiful spikerush | ELBE |
| MT10 | Rocky Mountain pond-lily | NUPO2 |
| MT8121 | Broadleaf cattail | TYLA |
| MW1923 | Inflated sedge | CAVE6 |
| MW1926 | Beaked sedge | CARO6 |
| MW2912 | Clustered field sedge | CAPR5 |
| MW2913 | Northern bog sedge | CAGY2 |
| MW2927 | Drooping woodreed | CILA2 |
| MW3912 | Baltic rush | JUBA |
| MW4911 | Few-flowered spikerush | ELPA6 |
| MW4912 | Creeping spikerush | ELPA3 |
| N | Ice fields |  |
| NTS111 | Syringa-bordered talus strips | PHLE4 (TALUS) |
| SD01 | White sagebrush | ARLU |
| SD1911 | Low sagebrush/Idaho fescue-bluebunch wheatgrass | ARAR8/FEID-AGSP |
| SD1924 | Low sagebrush/bluebunch wheatgrass | ARAR8/AGSP |
| SD2401 | Threetip sagebrush/Sandberg's bluegrass-onespike oatgrass | ARTR4/POSA12-DAUN |
| SD2911 | Mountain big sagebrush/Idaho fescue-bluebunch wheatgrass | ARTRV/FEID-AGSP |
| SD2915 | Mountain big sagebrush/elk sedge (montane) | ARTRV/CAGE2 (MONTANE) |
| SD2916 | Mountain big sagebrush-bitterbrush/Idaho fescue | ARTRV-PUTR2/FEID |
| SD2917 | Mountain big sagebrush-mountain snowberry/Mountain brome | ARTRV-SYOR2/BRCA5 |
| SD2918 | Mountain big sagebrush/bluebunch wheatgrass-Sandberg’s bluegrass | ARTRV/AGSP-POSA12 |
| SD2919 | Mountain big sagebrush-mountain snowberry | ARTRV-SYOR2 |
| SD2920 | Mountain big sagebrush/western needlegrass | ARTRV/STOC2 |
| SD2929 | Mountain big sagebrush/Idaho fescue-prairie junegrass | ARTRV/FEID-KOCR |
| SD30 | Squaw apple-mountain snowberry | PERA4-SYOR2 |
| SD3010 | Mountain big sagebrush-squaw apple | ARTRV-PERA4 |
| SD3011 | Mountain big sagebrush/giant wildrye | ARTRV/ELCI2 |
| SD3111 | Bitterbrush/Idaho fescue-bluebunch wheatgrass | PUTR2/FEID-AGSP |
| SD3112 | Bitterbrush/bluebunch wheatgrass | PUTR2/AGSP |
| SD3124 | Bitterbrush-mountain big sagebrush/Idaho fescue-bluebunch wheatgrass | PUTR2-ARTRV/FEID-AGSP |
| SD3125 | Bitterbrush-mountain big sagebrush/Idaho fescue | PUTR2-ARTRV/FEID |
| SD3126 | Bitterbrush/Douglas’ buckwheat | PUTR2/ERDO |
| SD40 | Mountain mahogany/elk sedge | CELE3/CAGE2 |
| SD4111 | Mountain mahogany/Idaho fescue-bluebunch wheatgrass | CELE3/FEID-AGSP |
| SD4112 | Mountain mahogany/bluebunch wheatgrass | CELE3/AGSP |
| SD4113 | Mountain mahogany/elk sedge | CELE3/CAGE2 |
| SD4114 | Mountain mahogany/Wheeler’s bluegrass | CELE3/PONEW |
| SD4115 | Mountain mahogany-bitterbrush/bluebunch wheatgrass | CELE3-PUTR2/AGSP |
| SD42 | Curl-leaf mountain mahogany/Geyer’s sedge | CELE3/CAGE2 |
| SD49 | Mountain mahogany | CELE3 |
| SD5611 | Netleaf hackberry/bluebunch wheatgrass | CERE2/AGSP |
| SD5612 | Netleaf hackberry/brome | CERE2/BROMU |
| SD6121 | Smooth sumac/bluebunch wheatgrass | RHGL/AGSP |
| SD65 | Spiny greenbush/bluebunch wheatgrass | GLNE/AGSP |
| SD9111 | Stiff sagebrush/Sandberg’s bluegrass (scabland) | ARRI2/POSA12 (SCAB) |
| SD9141 | Stiff sagebrush/Gairdner’s penstemon | ARRI2/PEGA |
| SD9221 | Low sagebrush/Sandberg’s bluegrass | ARAR8/POSA12 |
| SD9322 | Buckwheat/Oregon bladderpod | ERIOG-PHOR2 |
| SM1111 | Mallow ninebark-common snowberry | PHMA5-SYAL |
| SM19 | Ninebark-common snowberry | PHMA5-SYAL |
| SM1901 | Pacific ninebark | PHCA11 |
| SM20 | Alder snow slides | ALSI3 |
| SM3001 | Lewis’ mock orange/mesic forb | PHLE4/MESIC FORB |
| SM31 | Common snowberry | SYAL |
| SM3110 | Common snowberry (floodplain) | SYAL (FLOODPLAIN) |
| SM3111 | Common snowberry-rose | SYAL-ROSA5 |
| SM32 | Mountain snowberry | SYOR2 |
| SM33 | Snowbrush ceanothus | CEVE |
| SM34 | Bitter cherry | PREM |
| SM41 | Water birch/reed canarygrass | BEOC2/PHAR3 |
| SM5001 | Barton’s raspberry | RUBA |
| SM5002 | Himalayan blackberry | RUDI2 |
| SM5912 | Thimbleberry | RUPA |
| SS1912 | Pink mountainheath mounds | PHEM (MOUNDS) |
| SS4911 | Mountain big sagebrush/elk sedge | ARTRV/CAGE2 |
| SS4914 | Mountain big sagebrush/California brome | ARTRV/BRCA5 |
| SS4915 | Mountain big sagebrush/needle and thread | ARTRV/HECO26 |
| SS4916 | Mountain big sagebrush/Hood's sedge | ARTRV/CAHO5 |
| SS4917 | Mountain big sagebrush/linanthastrum | ARTRV/LINU4 |
| SS4918 | Mountain big sagebrush/golden buckwheat-phlox | ARTRV/ERFL4-PHLOX |
| SS4919 | Shrubby cinquefoil/Idaho fescue | POFR4/FEID |
| SS60 | Shrubby cinquefoil | POFR4 |
| SS6001 | Shrubby cinquefoil-bog birch | POFR4-BEGL |
| SW0101 | Labrador tea/Holm’s Rocky Mountain sedge | LEGL/CASC12 |
| SW0102 | Twinberry honeysuckle/ladyfern | LOIN5/ATFI |
| SW1111 | Willow/Kentucky bluegrass | SALIX/POPR |
| SW1112 | Willow/woolly sedge | SALIX/CALA30 |
| SW1114 | Willow/aquatic sedge | SALIX/CAAQ |
| SW1117 | Coyote willow | SAEX |
| SW1121 | Undergreen willow/Holm’s Rocky Mountain sedge | SACO2/CASC12 |
| SW1123 | Willow/bladder sedge | SALIX/CAUT |
| SW1124 | Willow/bluejoint | SALIX/CACA4 |
| SW1125 | Willow/mesic forb | SALIX/2FORB |
| SW1126 | Strapleaf willow | SALI |
| SW1127 | Undergreen willow/Northwest Territory sedge | SACO2/CAUT |
| SW1128 | Undergreen willow/Clustered field sedge | SACO2/CAPR5 |
| SW1129 | Eastwood willow-Tweedy willow/aquatic sedge | SAEA-SATW/CAAQ |
| SW1130 | Scouler willow/blue wildrye | SASC/ELGL |
| SW1133 | Arctic willow | SAAR27 |
| SW1134 | Farr’s willow/Pacific onion | SAFA/ALVA |
| SW1135 | Lemmon’s willow/mesic forb | SALE/MESIC FORB |
| SW1136 | Sitka willow/common horsetail | SASI2/EQAR |
| SW1137 | Drummond’s willow/arrowleaf groundsel | SADR/SETR |
| SW1138 | Booth’s willow/Holm’s Rocky Mountain sedge | SABO2/CASC12 |
| SW1139 | Booth’s willow/inflated sedge | SABO2/CAVE6 |
| SW2101 | White alder/blackberry | ALRH2/RUBUS |
| SW2102 | White alder/mesic shrub | ALRH2/MESIC SHRUB |
| SW2111 | Sitka alder/ladyfern | ALSI3/ATFI |
| SW2112 | Sitka alder/drooping woodreed | ALSI3/CILA2 |
| SW2113 | Sitka alder/mesic forb | ALSI3/MESIC FORB |
| SW2114 | Mountain alder/bigleaf sedge | ALIN2/CAAM10 |
| SW2115 | Mountain alder/bladder sedge | ALIN2/CAUT |
| SW2116 | Mountain alder/ladyfern | ALIN2/ATFI |
| SW2117 | Mountain alder/common horsetail | ALIN2/EQAR |
| SW2118 | Mountain alder/Dewey’s sedge | ALIN2/CADE9 |
| SW2120 | Mountain alder/Kentucky bluegrass | ALIN2/POPR |
| SW2121 | Mountain alder/bluejoint reedgrass | ALIN2/CACA4 |
| SW2122 | Mountain alder/smallfruit bulrush | ALIN2/SCMI2 |
| SW2123 | Mountain alder/woolly sedge | ALIN2/CALA30 |
| SW2124 | Thinleaf alder/common cowparsnip | ALINT/HEMA80 |
| SW2125 | Thinleaf alder/western oakfern | ALINT/GYDR |
| SW2126 | Mountain alder/aquatic sedge | ALIN2/CAAQ |
| SW2127 | Mountain alder/densely tufted sedge | ALIN2/CALEL |
| SW2128 | Mountain alder/woodrush sedge | ALIN2/CALU7 |
| SW2211 | Mountain alder-common snowberry | ALIN2-SYAL |
| SW2215 | Mountain alder/tall mannagrass | ALIN2/GLEL |
| SW2216 | Mountain alder-red osier dogwood/mesic forb | ALIN2-COST4/MESIC FORB |
| SW2217 | Mountain alder-currants/mesic forb | ALIN2-RIBES/MESIC FORB |
| SW3111 | Black hawthorn/mesic forb | CRDO2/MESIC FORB |
| SW3112 | Water birch/mesic forb | BEOC2/2FORB |
| SW3113 | Water birch/sedge (wet) | BEOC2/CAREX |
| SW3114 | Saskatoon serviceberry | AMAL2 |
| SW3124 | Cow parsnip/blue wildrye | HELA4-ELGL |
| SW4133 | Red osier dogwood/ladyfern | COST4/ATFI |
| SW5111 | Currants/drooping woodreed | RIBES/CILA2 |
| SW5112 | Red osier dogwood | COST4 |
| SW5113 | Shrubby cinquefoil/Tufted hairgrass | POFR4/DECE |
| SW5114 | Shrubby cinquefoil/Kentucky bluegrass | POFR4/POPR |
| SW5115 | Currant/mesic forb | RIBES/2FORB |
| SW5116 | Currant/fowl mannagrass | RIBES/GLST |
| SW5117 | Alderleaf buckthorn/forb (mesic) | RHAL/2FORB |
| SW5118 | Redosier dogwood/brook saxifrage | COSE16/SAOD2 |
| SW6111 | Silver sagebrush/Tufted hairgrass | ARCA13/DECE |
| SW6112 | Silver sagebrush/Kentucky bluegrass | ARCA13/POPR |
| SW6113 | Mountain big sagebrush/Cusick’s bluegrass | ARTRV/POCU3 |
| SW6114 | Silver sagebrush/Cusick’s bluegrass | ARCA13/POCU3 |
| SW901 | Alpine laurel/black alpine sedge | KAMI/CANI2 |
| WL | Lakes and ponds | n/a |
| WL0108 | Narrowleaf bur-reed | SPAN2 |

Table 47: Reference Code 641

| **PV\_CODE** | **COMMON\_NAME** | **SCIENTIFIC\_NAME** |
| --- | --- | --- |
| CCS521 | Western red cedar/Cascade barberry/western swordfern | THPL/MANE2/POMU |
| CDC321 | Douglas-fir-incense cedar | PSME-CADE27 |
| CDC322 | Douglas-fir-incense cedar-Jeffery pine | PSME-CADE27-PIJE |
| CDC323 | Douglas-fir-incense cedar/hollyleaved barberry | PSME-CADE27/MAAQ2 |
| CDC421 | Douglas-fir-white fir | PSME-ABCO |
| CDC422 | Douglas-fir-white fir/creeping snowberry | PSME-ABCO/SYMO |
| CDC521 | Douglas-fir-ponderosa pine/poison oak | PSME-PIPO/RHDI6 |
| CDH321 | Douglas-fir/California black oak/Pacific poison oak | PSME/QUKE/TODI |
| CDH521 | Douglas-fir-golden chinquapin/dwarf Oregon grape | PSME-CACH6/BENE2 |
| CDH522 | Douglas-fir-canyon live oak-tanoak | PSME-QUCH2-LIDE3 |
| CDH523 | Douglas-fir-canyon live oak/dwarf Oregon grape | PSME-QUCH2/BENE2 |
| CDH524 | Douglas-fir-canyon live oak/poison oak | PSME-QUCH2/RHDI6 |
| CDS121 | Douglas-fir/dry shrub | PSME/DRY SHRUB |
| CDS122 | Douglas-fir/huckleberry oak | PSME/QUVA |
| CDS123 | Douglas-fir/huckleberry oak-pinemat manzanita/common beargrass | PSME/QUVA-ARNE/XETE |
| CDS214 | Douglas-fir/vine maple-dwarf Oregon grape | PSME/ACCI-BENE2 |
| CDS215 | Douglas-fir/oceanspray/common whipplea | PSME/HODI/WHMO |
| CDS521 | Douglas-fir/dwarf Oregon grape/western sword-fern | PSME/BENE2/POMU |
| CDS522 | Douglas-fir/salal-dwarf Oregon grape | PSME/GASH-BENE2 |
| CDS523 | Douglas-fir/salal-Pacific rhododendron | PSME/GASH-RHMA3 |
| CDS524 | Douglas-fir/salmonberry/western swordfern | PSME/RUSP/POMU |
| CDS663 | Douglas-fir/pinemat manzanita-SWO | PSME/ARNE-SWO |
| CFC121 | Pacific silver fir-mountain hemlock/thinleaf huckleberry/sweet after death | ABAM-TSME/VAME/ACTR |
| CFC221 | Pacific silver fir-western hemlock/thinleaf huckleberry/sweet after death | ABAM-TSHE/VAME/ACTR |
| CFF221 | Pacific silver fir/dwarf rose/sweet after death | ABAM/ROGY/ACTR |
| CHC221 | Western hemlock-Douglas-fir/salal-SWO | TSHE-PSME/GASH-SWO |
| CHC321 | Western hemlock-white fir/Cascade barberry | TSHE-ABCO/MANE2 |
| CHC322 | Western hemlock-white fir/vine maple-Cascade barberry | TSHE-ABCO/ACCI-MANE2 |
| CHC421 | Western hemlock-western red cedar/Pacific rhododendron | TSHE-THPL/RHMA3 |
| CHC521 | Western hemlock-Pacific silver fir | TSHE-ABAM |
| CHC621 | Western hemlock-incense cedar/salal | TSHE-CADE27/GASH |
| CHF120 | Western hemlock/western swordfern | TSHE/POMU |
| CHH121 | Western hemlock-tanoak-California laurel | TSHE-LIDE3-UMCA |
| CHH122 | Western hemlock-tanoak/Pacific rhododendron | TSHE-LIDE3/RHMA3 |
| CHH123 | Western hemlock-tanoak/evergreen huckleberry-Pacific rhododendron | TSHE-LIDE3/VAOV2-RHMA3 |
| CHH321 | Western hemlock-giant chinquapin/salal-Pacific rhododendron | TSHE-CHCHC4/GASH-RHMA3 |
| CHS117 | Western hemlock/salal-dwarf Oregon grape-SWO | TSHE/GASH-BENE2-SWO |
| CHS118 | Western hemlock/salal-Pacific rhododendron-SWO | TSHE/GASH-BENE2-SWO |
| CHS119 | Western hemlock/salal/western swordfern | TSHE/GASH/POMU |
| CHS219 | Western hemlock/vine maple-salal-SWO | TSHE/ACCI-GASH-SWO |
| CHS220 | Western hemlock/vine maple-Pacific rhododendron | TSHE/ACCI-RHMA3 |
| CHS319 | Western hemlock/Pacific rhododendron-salal | TSHE/RHMA3-GASH |
| CHS320 | Western hemlock/Pacific rhododendron-dwarf Oregon grape-SWO | TSHE/RHMA3-BENE2-SWO |
| CHS420 | Western hemlock/salmonberry | TSHE/RUSP |
| CHS609 | Western hemlock/evergreen huckleberry-western sword-fern | TSHE/VAOV2/POMU |
| CHS821 | Western hemlock/deer oak-salal-Pacific rhododendron | TSHE/QUSA2-GASH-RHMA3 |
| CLC521 | Lodgepole pine-mountain hemlock (depauperate) | PICO-TSME |
| CLC721 | Lodgepole pine-white fir-Douglas-fir | PICO-ABCO-PSME |
| CLS531 | Lodgepole pine/thin-leaved huckleberry-grouseberry | PICO/VAME-VASC |
| CMC221 | Mountain hemlock-Shasta red fir/roughfruit berry/sidebells wintergreen | TSME-ABSH/RULA2/ORSE |
| CMC222 | Mountain hemlock-Shasta red fir/thinleaf huckleberry/pipsissewa | TSME-ABSH/VAME/CHUM |
| CMF021 | Mountain hemlock/forbs | TSME/2FORB |
| CMS116 | Mountain hemlock/grouse whortleberry/pipsissewa | TSME/VASC/CHUM |
| CMS141 | Mountain hemlock/pinemat manzanita/pipsissewa | TSME/ARNE/CHUM |
| CMS219 | Mountain hemlock/thinleaf huckleberry/sidebells wintergreen | TSME/VAME/ORSE |
| CMS621 | Mountain hemlock/Pacific rhododendron/common beargrass | TSME/RHMA3/XETE |
| CPC121 | Jeffrey pine-incense cedar-Douglas-fir | PIJE-CADE27-PSME |
| CPC122 | Jeffrey pine-incense cedar/whiteleaf manzanita | PIJE-CADE27/ARVI4 |
| CPC123 | Jeffrey pine-incense cedar/huckleberry oak | PIJE-CADE27/QUVA |
| CPC421 | Jeffrey pine/hoary manzanita/Idaho fescue | PIJE/ARCA5/FEID |
| CPC422 | Jeffrey pine/buckbrush/Idaho fescue | PIJE/CECU/FEID |
| CPC423 | Jeffrey pine/Idaho fescue | PIJE/FEID |
| CPC424 | Jeffrey pine/huckleberry oak-pinemat manzanita | PIJE/QUVA-ARNE |
| CPC425 | Jeffrey pine/huckleberry oak-pinemat manzanita/dwarf silktassel | PIJE/QUVA-ARNE/GABU2 |
| CPC621 | Ponderosa pine-Douglas-fir | PIPO-PSME |
| CPH221 | Ponderosa pine-California black oak | PIPO-QUKE |
| CQC121 | Western white pine-Jeffrey pine/huckleberry oak/common beargrass | PIMO3-PIJE/QUVA/XETE |
| CQF021 | Western white pine/common beargrass | PIMO3/XETE |
| CQH121 | Western white pine-tanoak/huckleberry oak/common beargrass | PIMO3-LIDE3/QUVA/XETE |
| CRC321 | Shasta red fir-white fir/Sadler oak/common prince’s-pine | ABMAS-ABCO/QUSA2/CHUM |
| CRC322 | Shasta red fir-white fir/Sadler oak/one-sided pyrola | ABMAS-ABCO/QUSA2/PYSE |
| CRC323 | Shasta red fir-white fir/baldhip rose/one-sided pyrola | ABMAS-ABCO/ROGY/PYSE |
| CRC324 | Shasta red fir-white fir/creeping snowberry/pipsissewa | ABSH-ABCO/SYMO/CHUM |
| CRC421 | Shasta red fir-lodgepole pine/pinemat manzanita/pipsissewa | ABSH-PICO/ARNE/CHUM |
| CRC521 | Shasta red fir-mountain hemlock/pinemat manzanita/pipsissewa | ABSH-TSME/ARNE/CHUM |
| CRF021 | Shasta red fir/sweetcicely | ABSH/OSBE |
| CRS421 | Shasta red fir/thin-leaved huckleberry/common prince's-pine | ABSH/VAME/CHUM |
| CRS521 | Shasta red fir/Oregon boxleaf/sidebells wintergreen | ABSH/PAMY/ORSE |
| CSC121 | Sitka spruce-white fir/salmonberry | PISI-ABCO/RUSP |
| CSS323 | Sitka spruce/salal-California huckleberry | PISI/GASH-VAOV2 |
| CTC121 | Port Orford cedar-white fir/Cascade barberry | CHLA-ABCO/MANE2 |
| CTC221 | Port Orford cedar-western hemlock/Sierra laurel | CHLA-TSHE/LEDA |
| CTC222 | Port-Orford cedar-western hemlock/western sword-fern | CHLA-TSHE/POMU |
| CTH121 | Port Orford cedar-tanoak/salal | CHLA-LIDE3/GASH |
| CTS121 | Port-Orford cedar/evergreen huckleberry/western sword-fern | CHLA/VAOV2/POMUM |
| CTS221 | Port-Orford cedar/Pacific madrone-salal | CHLA/RHMA3-GASH |
| CTS321 | Port Orford cedar/pink honeysuckle/fescue | CHLA/LOHI2/FESTU |
| CTS521 | Port Orford cedar/huckleberry oak/common beargrass | CHLA/QUVA/XETE |
| CWC221 | White fir-Douglas-fir/baldhip rose | ABCO-PSME/ROGY |
| CWC521 | White fir-Brewer spruce/common prince’s-pine-whitevein pyrola | ABCO-PIBR/CHUM-PYPI2 |
| CWC621 | White fir-incense cedar/western starflower | ABCO-CADE27/TRLA6 |
| CWC622 | White fir-western hemlock/Cascade barberry/longtube twinflower | ABCO-TSHE/MANE2/LIBOL2 |
| CWC721 | White fir-Shasta red fir/vanillaleaf | ABCO-ABMAS/ACTR |
| CWC722 | White fir-Shasta red fir/common prince’s-pine-threeleaf anemone | ABCO-ABMAS/CHUM-ANDE3 |
| CWC723 | White fir-Shasta red fir/Sadler oak | ABCO-ABMAS/QUSA2 |
| CWF541 | White fir/common beargrass | ABCO/XETE |
| CWH321 | White fir-tanoak/common prince’s-pine | ABCO-LIDE3/CHUM |
| CWS227 | White fir/dwarf Oregon grape | ABCO/BENE2 |
| CWS228 | White fir/dwarf Oregon grape/vanillaleaf | ABCO/BENE2/ACTR |
| CWS229 | White fir/Cascade barberry/longtube twinflower | ABCO/MANE2/LIBOL2 |
| CWS341 | White fir/pinemat manzanita | ABCO/ARNE |
| CWS342 | White fir/creeping snowberry | ABCO/SYMO |
| CWS523 | White fir/vine maple/Oregon oxalis | ABCO/ACCI/OXOR |
| CWS524 | White fir/salal-Cascade barberry | ABCO/GASH-MANE2 |
| CWS525 | White fir/Pacific rhododendron-Cascade barberry | ABCO/RHMA3-MANE2 |
| CWS526 | White fir/Pacific rhododendron-deer oak | ABCO/RHMA3-QUSA2 |
| CWS621 | White fir/huckleberry oak | ABCO/QUVA |
| HOC121 | Oregon white oak-Douglas-fir/poison oak | QUGA4-PSME/RHDI6 |
| HOG321 | Oregon white oak/hedgehog dogtail | QUGA4/CYEC |
| HTC221 | Tanoak-western hemlock/evergreen huckleberry-poison oak | LIDE3-TSHE/VAOV2-RHDI6 |
| HTC222 | Tanoak-western hemlock/evergreen huckleberry/western sword-fern | LIDE3-TSHE/VAOV2/POMU |
| HTC223 | Tanoak-western hemlock/evergreen huckleberry/western sword-fern-RIP | LIDE3-TSHE/VAOV2/POMU-RIP |
| HTC321 | Tanoak-Port Orford cedar/salal | LIDE3-CHLA/GASH |
| HTC421 | Tanoak-white fir/dwarf Oregon grape | LIDE3-ABCO/BENE2 |
| HTC521 | Tanoak-sugar pine/huckleberry oak/common beargrass | LIDE3-PIMO3/QUVA/XETE |
| HTC621 | Tanaok-Douglas-fir-canyon live oak/dwarf Oregon grape | LIDE3-PSME-QUCH2/BENE2 |
| HTC622 | Tanaok-Dougals-fir-canyon live oak/poison oak | LIDE3-PSME-QUCH2/RHDI6 |
| HTC623 | Tanoak-Douglas-fir/salal-dwarf Oregon grape | LIDE3-PSME/GASH-BENE2 |
| HTC624 | Tanoak-Douglas-fir/salal-Pacific rhododendron | LIDE3-PSME/GASH-RHMA3 |
| HTC625 | Tanoak-Douglas-fir/salal-huckleberry oak | LIDE3-PSME/GASH-VAOV2 |
| HTC626 | Tanoak-Douglas-fir/Sadler oak-dwarf Oregon grape | LIDE3-PSME/QUSA2-BENE2 |
| HTH321 | Tanoak-bigleaf maple-canyon live oak/western sword-fern | LIDE3-ACMA3-QUCH2/POMU |
| HTH421 | Tanoak-golden chinquapin-sugar pine | LIDE3-CACH6-PILA |
| HTH422 | Tanoak-golden chinquapin/salal-Sadler oak | LIDE3-CACH6/GASH-QUSA2 |
| HTS121 | Tanoak-evergreen huckleberry-Pacific rhododendron-salal | LIDE3/VAOV2-RHMA3-GASH |
| HTS621 | Tanoak/manzanita/common beargrass | LIDE3/ARCTO3/XETE |

Table 48: Reference Code 642

| **PV\_CODE** | **COMMON\_NAME** | **SCIENTIFIC\_NAME** |
| --- | --- | --- |
| CDS301 | Douglas-fir/Western rhododendron-Evergreen huckleberry | PSME/RHMA3-VAOV2 |
| CLC201 | Shore pine-Douglas-fir/Wax myrtle-Evergreen huckleberry | PICOC-PSME/MYCA-VAOV2 |
| CLC601 | Shore pine-Sitka spruce/Evergreen huckleberry | PICOC-PISI/VAOV2 |
| CLM101 | Shore pine/Slough sedge seasonally flooded | PICOC/CAOB3 |
| CLS301 | Shore pine/Bearberry | PICOC/ARUV |
| CLS832 | Shore pine/Scots broom/European beachgrass | PICOC/CYSC4/AMAR4 |
| CSH401 | Sitka spruce-Red alder/Slough sedge-Skunk cabbage saturated | PISI-ALRU/CAOB3-LYAM3 |
| CSS101 | Sitka spruce/Evergreen huckleberry | PISI/VAOV2 |
| CSS322 | Sitka spruce/Salal-Salmonberry | PISI/GASH-RUSP |
| CTS404 | Port Orford cedar/Evergreen huckleberry | CHLA/VAOV2 |
| GM2001 | Red fescue | FERU2 |
| GM2002 | Red fescue-Bracken fern | FERU2-PTAQ |
| GM2003 | Red fescue-Salt rush | FERU2-JULE |
| GM8001 | Seashore bluegrass | POMA26 |
| HAM101 | Red alder/Salmonberry/Slough sedge-Skunk cabbage saturated | ALRU/RUSP/CAOB3-LYAM3 |
| MMB801 | Salt rush | JULE |
| MMB802 | Sickle-leaved rush-Salt rush | JUFA-JULE |
| MT8101 | Hardstem bulrush | SCACA |
| MW8101 | Slough sedge seasonally flooded | CAOB3 |
| MW8102 | Slough sedge-Pacific silverweed | CAOB3-AREGE |
| MW8103 | Inflated sedge | CAEX5 |
| MW9102 | Creeping spikerush-Nevada rush | ELPA3-JUNE |
| SW1101 | Hooker willow/Slough sedge-Pacific silverweed | SAHO/CAOB3-AREGE |
| SW1102 | Hooker willow-Crabapple/Slough sedge-Skunk cabbage saturated | SAHO-MAFU/CAOB3-LYAM3 |
| SW4101 | Bog blueberry/Tufted hairgrass | VAUL/DECEC |
| SW4102 | Bog blueberry/Slough sedge | VAUL-CAOB3 |
| SW4114 | Douglas spiraea saturated | SPDO |
| SW8101 | Tree lupine/European beachgrass | LUAR/AMAR4 |
| WE0101 | Three-square bulrush tidal | SCAM6 |
| WE0102 | Baltic rush-Pacific silverweed tidal | JUBA-AREGE |
| WE0104 | Tufted hairgrass-Pacific silverweed tidal | DECEC-AREGE |
| WE0105 | Lyngby sedge-Pacific silverweed tidal | CALY3-AREGE |
| WE0106 | Creeping bentgrass-Pacific silverweed tidal | AGSTS-AREGE |
| WE0107 | Saltgrass-Pacific silverweed tidal | DISP-AREGE |
| WL0101 | Pond lily | NULUP |
| WL0102 | Floating water-pennywort | HYRA |
| WL0103 | Floating-leaved pondweed | PONA4 |
| WL0104 | Simplestem bur-reed | SPAN2 |
| WL0105 | Parrot-feather | MYAQ2 |
| WL0106 | South American waterweed | EGDE |
| WL0107 | Common bladderwort | UTMA |
| WL9001 | Waterpepper-Water purslane | POHY2-LUPA |
| WL9002 | Water smartweed | POAM8 |
| WL9003 | Threeway sedge | DUAR3 |
| WL9004 | Knotgrass | PADI6 |

Table 49: Reference Code 647

| **PV\_CODE** | **COMMON\_NAME** | **SCIENTIFIC\_NAME** |
| --- | --- | --- |
| CAF312 | Mountain hemlock-subalpine fir/Cascades aster | TSME-ABLA/EULE14 |
| CAG313 | Mountain hemlock-whitebark pine/Hitchcock’s smooth woodrush | TSME-PIAL/LUGLH |
| CAG314 | Mountain hemlock/Hitchcock’s smooth woodrush | TSME/LUGLH |
| CAS212 | Mountain hemlock/pink mountainheath-Cascade bilberry | TSME/PHEM-VADE |
| CAS412 | Mountain hemlock-subalpine fir/common juniper | TSME-ABLA/JUCO6 |
| CDC710 | Douglas-fir/Cascade barberry | PSME/MANE2 |
| CDC715 | Douglas-fir-western hemlock/Pacific rhododendron | PSME-TSHE/RHMA3 |
| CDS124 | Douglas-fir/Pacific poison oak | PSME/TODI |
| CDS212 | Douglas-fir/pceanspray/grass | PSME/HODI/grass |
| CDS213 | Douglas-fir/oceanspray-common whipplea | PSME/HODI-WHMO |
| CDS216 | Douglas-fir/oceanspray-Cascade barberry | PSME/HODI-MANE2 |
| CDS217 | Douglas-fir/oceanspray-snowberry | PSME/HODI-SYMPH |
| CDS312 | Douglas-fir/beaked hazelnut-creeping snowberry/western swordfern | PSME/COCO6-SYMO/POMU |
| CDS512 | Douglas-fir/Cascade barberry-salal | PSME/MANE2-GASH |
| CFC251 | Pacific silver fir-western hemlock/Pacific rhododendron-salal | ABAM-TSHE/RHMA3-GASH |
| CFC311 | Pacific silver fir-grand fir/starry false lily of the valley | ABAM-ABGR/MAST4 |
| CFF152 | Pacific silver fir/threeleaf foamflower | ABAM/TITR |
| CFF153 | Pacific silver fir/redwood-sorrel | ABAM/OXOR |
| CFS151 | Pacific silver fir/Cascade barberry | ABAM/MANE2 |
| CFS251 | Pacific silver fir/thinleaf huckleberry/common beargrass | ABAM/VAME/XETE |
| CFS253 | Pacific silver fir/Alaska blueberry/bunchberry dogwood | ABAM/VAAL3/COCA13 |
| CFS254 | Pacific silver fir/rusty menziesia | ABAM/MEFE |
| CFS255 | Pacific silver fir/Alaska blueberry-salal | ABAM/VAAL3-GASH |
| CFS256 | Pacific silver fir/thinleaf huckleberry/bride’s bonnet | ABAM/VAME/CLUN2 |
| CFS351 | Pacific silver fir/devilsclub | ABAM/OPHO |
| CFS551 | Pacific silver fir/Cascade azalea/common beargrass | ABAM/RHAL2/XETE |
| CFS552 | Pacific silver fir/Cascade azalea/bride’s bonnet | ABAM/RHAL2/CLUN2 |
| CFS651 | Pacific silver fir/vine maple/threeleaf foamflower | ABAM/ACCI/TITR |
| CFS652 | Pacific silver sir/Pacific rhododendron/Cascade barberry | ABAM/RHMA3/MANE2 |
| CFS653 | Pacific silver fir/Pacific rhododendron/common beargrass | ABAM/RHMA3/XETE |
| CFS654 | Pacific silver fir/Pacific rhododendron-Alaska blueberry/bunchberry dogwood | ABAM/RHMA3-VAAL3/COCA13 |
| CHF110 | Western hemlock/redwwod sorrel-NWO Cascades | TSHE/OXOR-NWO Cascades |
| CHF150 | Western hemlock/Pacific swordfern-NWO Cascades | TSHE/POMU-NWO Cascades |
| CHF220 | Western hemlock/sweet after death-dry-NWO Cascades | TSHE-ACCI-dry-NWO Cascades |
| CHF221 | Western hemlock/sweet after death | TSHE/ACTR |
| CHF321 | Western hemlock/twinflower | TSHE/LIBO3 |
| CHM121 | Western hemlock/American skunkcabbage | TSHE/LYAM3 |
| CHS110 | Western hemlock/salal-NWO Cascades | TSHE-GASH-NWO Cascades |
| CHS158 | Western hemlock/Cascade barberry-dry-NWO Cascades | TSHE/MANE2-dry-NWO Cascades |
| CHS159 | Western hemlock/Cascade barberry-salal-dry-NWO Cascades | TSHE/MANE2-GASH-dry-NWO Cascades |
| CHS160 | Western hemlock/Cascade barberry-salal-NWO Cascades | TSHE/MANE2-GASH-NWO Cascades |
| CHS161 | Western hemlock/Cascade barberry-NWO Cascades | TSHE/MANE2-NWO Cascades |
| CHS162 | Western hemlock/Cascade barberry/sweet after death | TSHE/MANE2/ACTR |
| CHS163 | Western hemlock/Cascade barberry/redwood-sorrel-NWO Cascades | TSHE/MANE2/OXOR-NWO Cascades |
| CHS164 | Western hemlock/Cascade barberry/western swordfern-NWO Cascades | TSHE/MANE2/POMU-NWO Cascades |
| CHS228 | Western hemlock/vine maple/western swordfern NWO Cascades | TSHE/ACCI/POMU-NWO Cascades |
| CHS232 | Western hemlock/vine maple-salal/western swordfern NWO Cascades | TSHE/ACCI-GASH/POMU-NWO Cascades |
| CHS326 | Western hemlock/Pacific rhododendron-Alaska blueberry/bunchberry dogwood | TSHE/RHMA3-VAAL3/COCA13 |
| CHS350 | Western hemlock/Pacific rhododendron-salal-NWO Cascades | TSHE/RHMA3-GASH-NWO Cascades |
| CHS354 | Western hemlock/Pacific rhododendron/redwood sorrel | TSHE/RHMA3/OXOR |
| CHS355 | Western hemlock/Pacific rhododendron-twinflower | TSHE/RHMA3-LIBO3 |
| CHS356 | Western hemlock/Pacific rhododendron-Cascade barberry-NWO Cascades | TSHE/RHMA3-MANE2-NWO Cascades |
| CHS357 | Western hemlock/Pacific rhododendron/common beargrass | TSHE/RHMA3/XETE |
| CHS522 | Western hemlock/devilsclub/redwood sorrel | TSHE/OPHO/OXOR |
| CHS525 | Western hemlock/devilsclub/starry false lily of the valley | TSHE/OPHO/MAST4 |
| CHS611 | Western hemlock/Alaska blueberry-devilsclub | THSE/VAAL3-OPHO |
| CHS613 | Western hemlock/Alaska blueberry/redwood sorrel-NWO Cascades | THSE/VAAL3/OXOR-NWO Cascades |
| CHS614 | Western hemlock/Alaska blueberry-salal | TSHE/VAAL3-GASH |
| CHS615 | Western hemlock/Alaska blueberry/bunchberry dogwood NWO Cascades | TSHE/VAAL3/COCO13-NWO Cascades |
| CMG212 | Mountain hemlock/forked woodrush | TSME/LUDI |
| CMS117 | Mountain hemlock/pinemat manzanita | TSME/ARNE |
| CMS118 | Mountain hemlock/grouse whortlberry | TSME/VASC |
| CMS224 | Mountain hemlock/thinleaf huckleberry/common beargrass | TSME/VAME/XETE |
| CMS225 | Mountain hemlock/rusty menziesia | TSME/MEFE |
| CMS226 | Mountain hemlock/Cascade azalea/bride’s bonnet | TSME/RHAL2/CLUN2 |
| CMS227 | Mountain hemlock/Cascade azalea/common beargrass | TSME/RHAL2/XETE |
| CMS228 | Mountain hemlock/thinleaf huckleberry-western mountain ash | TSME/VAME-SOSI2 |
| CMS229 | Mountain hemlock/thinleaf kuckleberry/bride’s bonnet | TSME/VAME/CLUN2 |
| CMS613 | Mountain hemlock/Pacific rhododendron | TSME/RHMA3 |
| CWF211 | Grand fir/pipsissewa | ABGR/CHUM |
| CWS521 | Grand fir/kinnikinnick | ABGR/ARUV |
| CWS522 | Grand fir/Cascade barberry | ABGR/MANE2 |
| CWS527 | Grand fir/vine maple/western swordfern | ABGR/ACCI/POMU |
| CWS528 | Grand fir/Cascade barberry-salal | ABGR/MANE2-GASH |
| CWS529 | Grand fir/oceanspray/western swordfern | ABGR/HODI/POMU |
| CWS555 | Grand fir/beaked hazelnut/white insideout flower | ABGR/COCO6/VAHE |
| CWS622 | Grand fir/Pacific poison oak | ABGR/TODI |

Table 50: Reference Code 648

| **PV\_CODE** | **COMMON\_NAME** | **SCIENTIFIC\_NAME** |
| --- | --- | --- |
| CAF312 | Mountain hemlock-subalpine fir/Cascade aster | TSME-ABLA2/EULE14 |
| CAG313 | Mountain hemlock-whitebark pine/lupine | TSME-PIAL/LUGL |
| CAG314 | Mountain hemlock/lupine | TSME/LUGL |
| CAS212 | Mountain hemlock/red heather-blueleaf huckleberry, NW Oregon | TSME/PHEM-VADE |
| CAS412 | Mountain hemlock-subalpine fir/common juniper | TSME-ABLA2/JUCO6 |
| CDC710 | Douglas-fir/dwarf Oregon grape | PSME/MANE2 |
| CDC712 | Douglas-fir-w. hemlock/rhododendron | PSME-TSHE/RHMA |
| CDC714 | Douglas-fir/dwarf Oregon grape/salal | PSME/MANE2-GASH |
| CDS124 | Douglas-fir/poison oak | PSME/TODI |
| CDS212 | Douglas-fir/oceanspray/grass | PSME/HODI/GRASS |
| CDS213 | Douglas-fir/oceanspray/whipple vine | PSME/HODI/WHMO |
| CDS216 | Douglas-fir/oceanspray-dwarf Oregon grape | PSME/HODE-MANE2 |
| CDS217 | Douglas-fir/oceanspray-snowberry | PSME/HODI-SYMPH |
| CDS312 | Douglas-fir/California hazel-creeping snowberry/swordfern | PSME/COCO6-SYMO/POMU |
| CDS512 | Douglas-fir/dwarf Oregon grape/salal | PSME/MANE2-GASH |
| CFC311 | Silver fir-grand fir/false solomonseal | ABAM-ABGR/SMST |
| CFF152 | Silver fir/coolwort foamflower | ABAM/TIUN |
| CFF155 | Pacific silver fir/Oregon oxalis-NWO coast | ABAM/OXOR |
| CFF613 | Pacific silver fir/Oregon oxalis-swordfern | ABAM/OXOR-POMU |
| CFS151 | Silver fir/dwarf Oregongrape | ABAM/BENE |
| CFS251 | Silver fir/big huckleberry/beargrass | ABAM/VAME/XETE |
| CFS254 | Silver fir/fools huckleberry | ABAM/MEFE |
| CFS255 | Silver fir/Alaska huckleberry-salal | ABAM/VAAL-GASH |
| CFS256 | Silver fir/big huckleberry/beadily | ABAM/VAME/CLUN |
| CFS351 | Silver fir/devils club | ABAM/OPHO |
| CHF110 | Western hemlock/Oregon oxalis-NWO Cascades | TSHE/OXOR-NWO Cascades |
| CHF141 | Western hemlock/Oregon oxalis-NWO coast | TSHE/OXOR-NWO Coast |
| CHF142 | Western hemlock/swordfern-NWO coast | TSHE/POMU/NWO Coast |
| CHF150 | Western hemlock/swordfern-NWO Cascades | TSHE/POMU-NWO Cascades |
| CHF220 | Western hemlock/vanilla leaf-DRY-NWO Cascades | TSHE/ACTR-DRY-NWO Cascades |
| CHF221 | Western hemlock/vanilla leaf | TSHE/ACTR |
| CHF231 | Western hemlock/Oregon oxalis-vanilla leaf | TSHE/OXOR-ACTR |
| CHF232 | Western hemlock/vanilla leaf-DRY-NWO coast | TSHE/ACTR-DRY-NWO Coast |
| CHF321 | Western hemlock/twinflower | TSHE/LIBO3 |
| CHS110 | Western hemlock/salal-NWO Cascades | TSHE/GASH-NWO Cascades |
| CHS151 | Western hemlock/dwarf Oregon grape-NWO coast | TSHE/MANE2-NWO Coast |
| CHS152 | Western hemlock/dwarf Oregon grape-DRY-NWO coast | TSHE/MANE2-DRY-NWO Coast |
| CHS153 | Western hemlock/dwarf Oregon grape-salal-NWO coast | TSHE/MANE2-GASH-NWO Coast |
| CHS154 | Western hemlock/dwarf Oregon grape-salal-DRY-NWO coast | TSHE/MANE2-GASH-DRY-NWO Coast |
| CHS155 | Western hemlock/dwarf Oregon grape/Oregon oxalis-NWO coast | TSHE/MANE2/OXOR-NWO Coast |
| CHS156 | Western hemlock/dwarf Oregon grape/swordfern-NWO coast | TSHE/MANE2/POMU-NWO Coast |
| CHS157 | Western hemlock/salal-NWO coast | TSHE/GASH-NWO Coast |
| CHS158 | Western hemlock/dwarf Oregon grape-DRY-NWO Cascades | TSHE/MANE2-DRY-NWO Cascades |
| CHS159 | Western hemlock/dwarf Oregon grape-salal-DRY-NWO Cascades | TSHE/MANE2-GASH-DRY-NWO Cascades |
| CHS160 | Western hemlock/dwarf Oregon grape-salal-NWO Cascades | TSHE/MANE2-GASH-NWO Cascades |
| CHS161 | Western hemlock/dwarf Oregon grape-NWO Cascades | TSHE/MANE2-NWO Cascades |
| CHS162 | Western hemlock/dwarf Oregon grape/vanilla leaf-NWO Cascades | TSHE/MANE2/ACTR-NWO Cascades |
| CHS163 | Western hemlock/dwarf Oregon grape/Oregon oxalis-NWO Cascades | TSHE/MANE2/OXOR-NWO Cascades |
| CHS164 | Western hemlock/dwarf Oregon grape/swordfern-NWO Cascades | TSHE/MANE2/POMU-NWO Cascades |
| CHS222 | Western hemlock/vine maple/swordfern, coast | TSHE/ACCI/POMU-COAST |
| CHS230 | Western hemlock/vine maple-salal/swordfern-NWO coast | TSHE/ACCI-GASH/POMU-NWO Coast |
| CHS231 | Western hemlock/vine maple-California hazel | TSHE/ACCI-COCO6 |
| CHS314 | Western hemlock/rhododendron-dwarf Oregon grape-NWO coast | TSHE/RHMA3-MANE2-NWO Coast |
| CHS322 | Western hemlock/rhododendron-salal, coast | TSHE/RHMA-GASH-COAST |
| CHS323 | Western hemlock/rhododendron/swordfern, coast | TSHE/RHMA/POMU-COAST |
| CHS324 | Western hemlock/rhododendron-evergreen huckleberry, coast | TSHE/RHMA-VAOV2-COAST |
| CHS350 | Western hemlock/rhododendron-salal-NWO Cascades | TSHE/RHMA3-GASH-NWO Cascades |
| CHS356 | Western hemlock/rhododendron-dwarf Oregon grape-NWO Cascades | TSHE/RHMA3-MANE2-NWO Cascades |
| CHS357 | Western hemlock/rhododendron/beargrass-NWO Cascades | TSHE/RHMA3/XETE-NWO Cascades |
| CHS421 | Western hemlock/salmonberry, coastal | TSHE/RUSP-COAST |
| CHS422 | Western hemlock/salmonberry/vine maple, coast | TSHE/RUSP-ACCI-COAST |
| CHS423 | Western hemlock/salmonberry/salal, coastal | TSHE/RUSP-GASH-COAST |
| CHS521 | Western hemlock/devils club, coastal | TSHE/OPHO-COAST |
| CHS610 | Western hemlock/evergreen huckleberry, coastal | TSHE/VAOV2-COAST |
| CHS616 | Western hemlock/Alaska huckleberry/Oregon oxalis-NWO coast | TSHE/VAAL/OXOR-NWO Coast |
| CMG211 | Mountain hemlock/woodrush | TSME/LUZULA |
| CMG212 | Mountain hemlock/lupine | TSME/LUDI |
| CMS117 | Mountain hemlock/ | TSME/ARNE |
| CMS118 | Mountain hemlock/ | TSME/VASC-NWO |
| CMS224 | Mountain hemlock/big huckleberry/beargrass, NW Oregon | TSME/VAME/XETE-NWO |
| CMS225 | Mountain hemlock/rusty menziesia, NW Oregon | TSME/MEFE-NWO |
| CMS226 | Mountain hemlock/white beaksedge/bead lily | TSME/RHAL/CLUN |
| CMS227 | Mountain hemlock/white beaksedge/beargrass | TSME/RHAL/XETE |
| CMS228 | Mountain hemlock/big huckleberry-Mt. Albert goldenrod | TSME/VAME-SOSI |
| CMS229 | Mountain hemlock/big huckleberry-beadlily | TSME/VAME/CLUN-NWO |
| CMS613 | Mountain hemlock/rhododendron, NW Oregon | TSME/RHMA-NWO |
| CSF121 | Sitka spruce/swordfern | PISI/POMU |
| CSF321 | Sitka spruce/oxalis | PISI/OXOR |
| CSS321 | Sitka spruce/salal | PISI/GASH |
| CSS521 | Sitka spruce/salmonberry | PISI/RUSP |
| CSS522 | Sitka spruce/salmonberry-salal | PISI/RUSP-GASH |
| CWS522 | Grand fir/dwarf Oregongrape | ABGR/BENE |
| CWS527 | Grand fir/vine maple/swordfern | ABGR/ACCI/POMU |
| CWS528 | Grand fir/dwarf Oregon grape-salal | ABGR/MANE2-GASH |
| CWS529 | Grand fir/oceanspray/sword fern | ABGR/HODI/POMU |
| CWS555 | Grand fir/California hazel/inside out flower | ABGR/COCO6/VAHE |
| CWS622 | Grand fir/poison oak | ABGR/TODI |

Table 51: Reference Code 650

| **PV\_CODE** | **COMMON\_NAME** | **SCIENTIFIC\_NAME** |
| --- | --- | --- |
| CAF312 | Mountain hemlock-subalpine fir/Cascade aster | TSME-ABLA2/EULE14 |
| CAG313 | Mountain hemlock-whitebark pine/lupine | TSME-PIAL/LUGL |
| CAG314 | Mountain hemlock/lupine | TSME/LUGL |
| CAS212 | Mountain hemlock/red heather-blueleaf huckleberry, NW Oregon | TSME/PHEM-VADE-NWO |
| CAS412 | Mountain hemlock-subalpine fir/common juniper | TSME-ABLA2/JUCO6 |
| CDC710 | Douglas-fir/dwarf Oregon grape | PSME/MANE2 |
| CDC714 | Douglas-fir/dwarf Oregon grape/salal | PSME/MANE2-GASH |
| CDS124 | Douglas-fir/poison oak | PSME/TODI |
| CDS216 | Douglas-fir/oceanspray-dwarf Oregon grape | PSME/HODI-MANE2 |
| CDS217 | Douglas-fir/oceanspray-snowberry | PSME/HODI-SYMPH |
| CDS312 | Douglas-fir/California hazel-creeping snowberry/swordfern | PSME/COCO6-SYMO/POMU |
| CDS512 | Douglas-fir/dwarf Oregon grape/salal | PSME/MANE2-GASH |
| CFF155 | Pacific silver fir/Oregon oxalis-NWO coast | ABAM/OXOR-NWO Coast |
| CFF613 | Pacific silver fir/Oregon oxalis-swordfern | ABAM/OXOR-POMU |
| CHF110 | Western hemlock/Oregon oxalis-NWO Cascades | TSHE/OXOR-NWO Cascades |
| CHF141 | Western hemlock/Oregon oxalis-NWO coast | TSHE/OXOR-NWO Coast |
| CHF142 | Western hemlock/swordfern-NWO coast | TSHE/POMU/NWO Coast |
| CHF150 | Western hemlock/swordfern-NWO Cascades | TSHE/POMU-NWO Cascades |
| CHF220 | Western hemlock/vanilla leaf-DRY-NWO Cascades | TSHE/ACTR-DRY-NWO Cascades |
| CHF231 | Western hemlock/Oregon oxalis-vanilla leaf | TSHE/OXOR-ACTR |
| CHF232 | Western hemlock/vanilla leaf-DRY-NWO Coast | TSHE/ACTR-DRY-NWO Coast |
| CHS110 | Western hemlock/salal-NWO Cascades | TSHE/GASH-NWO Cascades |
| CHS151 | Western hemlock/dwarf Oregon grape-NWO coast | TSHE/MANE2-NWO Coast |
| CHS152 | Western hemlock/dwarf Oregon grape-DRY-NWO coast | TSHE/MANE2-DRY-NWO Coast |
| CHS153 | Western hemlock/dwarf Oregon grape-salal-NWO coast | TSHE/MANE2-GASH-NWO Coast |
| CHS154 | Western hemlock/dwarf Oregon grape-salal-DRY-NWO coast | TSHE/MANE2-GASH-DRY-NWO Coast |
| CHS155 | Western hemlock/dwarf Oregon grape/Oregon oxalis-NWO coast | TSHE/MANE2/OXOR-NWO Coast |
| CHS156 | Western hemlock/dwarf Oregon grape/swordfern-NWO coast | TSHE/MANE2/POMU-NWO Coast |
| CHS157 | Western hemlock/salal-NWO coast | TSHE/GASH-NWO Coast |
| CHS158 | Western hemlock/dwarf Oregon grape-DRY-NWO Cascades | TSHE/MANE2-DRY-NWO Cascades |
| CHS159 | Western hemlock/dwarf Oregon grape-salal-DRY-NWO Cascades | TSHE/MANE2-GASH-DRY-NWO Cascades |
| CHS160 | Western hemlock/dwarf Oregon grape-salal-NWO Cascades | TSHE/MANE2-GASH-NWO Cascades |
| CHS161 | Western hemlock/dwarf Oregon grape-NWO Cascades | TSHE/MANE2-NWO Cascades |
| CHS162 | Western hemlock/dwarf Oregon grape/vanilla leaf-NWO Cascades | TSHE/MANE2/ACTR-NWO Cascades |
| CHS163 | Western hemlock/dwarf Oregon grape/Oregon oxalis-NWO Cascades | TSHE/MANE2/OXOR-NWO Cascades |
| CHS164 | Western hemlock/dwarf Oregon grape/swordfern-NWO Cascades | TSHE/MANE2/POMU-NWO Cascades |
| CHS228 | Western hemlock/vine maple/swordfern-NWO Cascades | TSHE/ACCI/POMU-NWO Cascades |
| CHS230 | Western hemlock/vine maple-salal/swordfern-NWO coast | TSHE/ACCI-GASH/POMU-NWO Coast, TSHE/ACCI-GASH/POMU-NWO |
| CHS231 | Western hemlock/vine maple-California hazel | TSHE/ACCI-COCO6 |
| CHS314 | Western hemlock/rhododendron-dwarf Oregon grape-NWO coast | TSHE/RHMA3-MANE2-NWO Coast |
| CHS350 | Western hemlock/rhododendron-salal-NWO Cascades | TSHE/RHMA3-GASH-NWO Cascades |
| CHS356 | Western hemlock/rhododendron-dwarf Oregon grape-NWO Cascades | TSHE/RHMA3-MANE2-NWO Cascades |
| CHS357 | Western hemlock/rhododendron/beargrass-NWO Cascades | TSHE/RHMA3/XETE-NWO Cascades |
| CHS616 | Western hemlock/Alaska huckleberry/Oregon oxalis-NWO coast | TSHE/VAAL/OXOR-NWO Coast |
| CMG212 | Mountain hemlock/lupine | TSME/LUDI |
| CMS117 | Mountain hemlock/pinemat manzanita | TSME/ARNE |
| CMS118 | Mountain hemlock/grouse whortleberry-NW Oregon | TSME/VASC-NWO |
| CMS224 | Mountain hemlock/big huckleberry/beargrass, NW Oregon | TSME/VAME/XETE-NWO |
| CMS225 | Mountain hemlock/rusty menziesia, NW Oregon | TSME/MEFE-NWO |
| CMS226 | Mountain hemlock/white beaksedge/bead lily | TSME/RHAL/CLUN |
| CMS227 | Mountain hemlock/white beaksedge/beargrass | TSME/RHAL/XETE |
| CMS228 | Mountain hemlock/big huckleberry-Mt. Albert goldenrod | TSME/VAME-SOSI |
| CMS229 | Mountain hemlock/big huckleberry-beadlily | TSME/VAME/CLUN-NWO |
| CMS613 | Mountain hemlock/rhododendron, NW Oregon | TSME/RHMA-NWO |
| CWS527 | Grand fir/vine maple/swordfern | ABGR/ACCI/POMU |
| CWS528 | Grand fir/dwarf Oregon grape-salal | ABGR/MANE2-GASH |
| CWS529 | Grand fir/oceanspray/sword fern | ABGR/HODI/POMU |
| CWS555 | Grand fir/California hazel/inside out flower | ABGR/COCO6/VAHE |
| CWS622 | Grand fir/poison oak | ABGR/TODI |

Table 52: Reference Code 653

| **PV\_CODE** | **COMMON\_NAME** | **SCIENTIFIC\_NAME** |
| --- | --- | --- |
| CMF311 | Mountain hemlock/wild ginger | TSME/ASCA2 |
| CMF211 | Mountain hemlock/queencup beadlilly | TSME/CLUN2 |
| CMF221 | Mountain hemlock/vanilla leaf | TSME/ACTR |
| CMF231 | Mountain hemlock/twinflower | TSME/LIBO3 |
| CMF241 | Mountain hemlock/bride’s bonnet | TSME/CLUN2 |
| CMS313 | Mountain hemlock/pink mountain heath-Cascade bilberry | TSME/PHEM-VADE |
| CMG221 | Mountain hemlock/smooth woodrush | TSME/LUHI |
| CMS232 | Mountain hemlock/thinleaf huckleberry | TSME/VAME |
| CMS216 | Mountain hemlock/thinleaf huckleberrk/common beargrass | TSME/VAME/XETE |
| CMS841 | Mountain hemlock/golden chinquapin | TSME/CHCH7 |
| CMF141 | Mountain hemlock/common beargrass | TSME/XETE |
| CMF331 | Mountain hemlock/common prince’s pine | TSME/CHUM |
| CMS111 | Mountain hemlock/grouse whortleberry | TSME/VASC |
| CMS117 | Mountain hemlock/pinemat manzanita | TSME/ARNE |
| CMG341 | Mountain hemlock/long-stolon sedge | TSME/CAIN4 |
| CFM112 | Pacific silver fir/American skunkcabbage | ABAM/LYAM |
| CFF121 | Pacific silver fir/wild ginger | ABAM/ASCA2 |
| CFF142 | Pacific silver fir/queencup beadlily | ABAM/CLUN2 |
| CFF252 | Pacific silver fir/vanilla leaf | ABAM/ACTR |
| CFF511 | Pacific silver fir/twinflower | ABAM/LIBO3 |
| CFS251 | Pacific silver fir/thinleaf huckleberry/common beargrass | ABAM/VAME/XETE |
| CFS270 | Pacific silver fir/thinleaf huckleberry | ABAM/VAME |
| CFS410 | Pacific silver fir/grouse whortleberry | ABAM/VASC |
| CHF313 | Western hemlock/wild ginger | TSHE/ASCA2 |
| CHF311 | Western hemlock/queencup beadlily | TSHE/CLUN2 |
| CHF221 | Western hemlock/vanilla leaf | TSHE/ACTR |
| CHF321 | Western hemlock/twinflower | TSHE/LIBO3 |
| CCF221 | Western redcdear/queedcup beadlily | THPL/CLUN2 |
| CCF211 | Western redcedar/twinflower | THPL/LIBO3 |
| CWF551 | White fir-grand fir/wild ginger | ABCO-ABGR/ASCA2 |
| CWF431 | White fir-grand fir/queencup beadlily | ABCO-ABGR/CLUN2 |
| CWF522 | White fir-grand fir/vanilla leaf | ABCO-ABGR/ACTR |
| CWF341 | White fir-grand fir/twinflower | ABCO-ABGR/LIBO3 |
| CWF521 | White fir-grand fir/western starflower | ABCO-ABGR/TRBOL |
| CWS533 | White fir-grand fir/golden chinquapin | ABCO-ABGR/CHCH7 |
| CWF562 | White fir-grand fir/starry false-solomonseal | ABCO-ABGR/MAST4 |
| CWS361 | White fir-grand fir/creeping snowberry | ABCO-ABGR/SYMO |
| CWF241 | White fir-grand fir/common prince’s pine | ABCO-ABGR/CHUM |
| CWS531 | White fir-grand fir/oceanspray | ABCO-ABGR/HODI |
| CWS362 | White fir-grand fir/common snowberry | ABCO-ABGR/SYAL |
| CWG141 | White fir-grand fir/pinegrass | ABCO-ABGR/CARU |
| CWS363 | White fir-grand fir/pinemant manzanita | ABCO-ABGR/ARNE |
| CWG142 | White fir-grand fir/long-stolen sedge | ABCO-ABGR/CAIN9 |
| CWS364 | White fir-grand fir/mahala mat | ABCO-ABGR/CEPR |
| CWF741 | White fir-grand fir/woolly mule-ears | ABCO-ABGR/WYMO |
| CWS141 | White fir-grand fir/greenleaf manzanita | ABCO-ABGR/ARPA6 |
| CWF362 | White fir-grand fir/sticky starwort | ABCO-ABGR/PSJA2 |
| CRS314 | Shasta red fir/golden chinquapin | ABSH/CHCH7 |
| CRF301 | Shasta red fir/common prince’s pine | ABSH/CHUM |
| CRS111 | Shasta red fir/pinemat manzanita | ABSH/ARNE |
| CRG112 | Shasta red fir/long-stolen sedge | ABSH/CAIN9 |
| CDF341 | Douglas-fir/starflower | PSME/TRBOL |
| CDH525 | Douglas-fir/chinquapin | PSME/CHCH7 |
| CDS643 | Douglas-fir/creeping snowberry | PSME/SYMO |
| CDF342 | Douglas-fir/prince's pine | PSME/CHUM |
| CDS210 | Douglas-fir/oceanspray | PSME/HODI |
| CDS633 | Douglas-fir/common snowberry | PSME/SYAL |
| CDS645 | Douglas-fir/mahala mat | PSME/CEPR |
| CDG111 | Douglas-fir/elk sedge | PSME/CAGE2 |
| CDS141 | Douglas-fir/greenleaf manzanita | PSME/ARPA6 |
| CDS673 | Douglas-fir/bitterbrush | PSME/PUTR2 |
| CPC731 | Ponderosa pine-incense cedar/common snowberry | PIPO-CADE27/SYAL |
| CPC732 | Ponderosa pine-incense cedar/mahala mat | PIPO-CADE27/CEPR |
| CPC733 | Ponderosa pine-incense cedar/greenleaf manzanita | PIPO-CADE27/ARPA6 |
| CPC734 | Ponderosa pine-incense cedar/bitterbrush | PIPO-CADE27/PUTR2 |
| CPH215 | Ponderosa pine-Oregon white oak/common snowberry | PIPO-QUGA4/SYAL |
| CPH212 | Ponderosa pine-Oregon white oak/bitterbrush | PIPO-QUGA4/PUTR2 |
| CPS541 | Ponderosa pine/Douglas spirea | PIPO/SPDO |
| CPH312 | Ponderosa pine-aspen | PIPO-POTR5 |
| CPS641 | Ponderosa pine/kinnikinnick | PIPO/ARUV |
| CPS542 | Ponderosa pine/creeping snowberry | PIPO/SYMO |
| CPF141 | Ponderosa pine/prince’s pine | PIPO/CHUM |
| CPS524 | Ponderosa pine/common snowberry | PIPO/SYAL |
| CPS341 | Ponderosa pine/mahala mat | PIPO/CEPR |
| CPF111 | Ponderosa pine/woolly wyethia | PIPO/WYMO |
| CPS325 | Ponderosa pine/curl-leaf mountain mahogany | PIPO/CELE3 |
| CPG211 | Ponderosa pine/long-stolon sedge | PIPO/CAIN9 |
| CPS219 | Ponderosa pine/greenleaf manzanita | PIPO/ARPA6 |
| CPS211 | Ponderosa pine/bitterbrush/Idaho fescue | PIPO/PUTR2/FEID |
| CPS210 | Ponderosa pine/bitterbrush | PIPO/PUTR2 |
| CPS141 | Ponderosa pine/big sagebrush | PIPO/ARTR2 |
| CPG135 | Ponderosa pine/Idaho fescue | PIPO/FEID |
| CPG125 | Ponderosa pine/western needlegrass | PIPO/ACOC3 |
| CLC113 | Whitebark pine-lodgepole pine/pinemat manzanita | PIAL-PICO/ARNE |
| CLC114 | Whitebark pine-lodgepole pine/long-stolen sedge | PIAL-PICO/CAIN9 |
| CLM912 | Lodgepole pine/few-flowered spikerush | PICO/ELQU2 |
| CLM113 | Lodgepole pine/widefruit sedge | PICO/CAAN15 |
| CLM312 | Lodgepole pine/bog blueberry/widefruit sedge | PICO/VAUL/CAAN15 |
| CLM314 | Lodgepole pine/Douglas spirea/widefruit sedge | PICO/SPDO/CAAN15 |
| CLM311 | Lodgepole pine/bog blueberry/widefruit sedge | PICO/VAUL |
| CLM313 | Lodgepole pine/Douglas spirea | PICO/SPDO |
| CLM211 | Lodgepole pine/bearberry | PICO/ARUV |
| CLS311 | Lodgepole pine/pinemat manzanita | PICO/ARNE |
| CLG419 | Lodgepole pine/long-stolon sedge | PICO/CAIN9 |
| CLS214 | Lodgepole pine/bitterbrush/Idaho fescue | PICO/PUTR2/FEID |
| CLS211 | Lodgepole pine/bitterbrush/western needlegrass | PICO/PUTR2/ACOC3 |
| CLG316 | Lodgepole pine/Idaho fescue | PICO/FEID |
| CLG317 | Lodgepole pine/western needlegrass | PICO/ACOC3 |

## Appendix H: Fuel Photo References & Codes

Table 53: Fuel Photo References

| **Code** | **Reference** |
| --- | --- |
| 1 | Fischer, William C. 1981. **Photo Guide for Appraising Downed Woody Fuels in Montana Forests: Grand fir – Larch – Douglas-fir – Western Redcedar Cover Types**. USDA Forest Service, Gen. Tech. Rep. Int-96, 53 p. Intermt. For. And Range Exp. Stn., Ogden, UT 84401. |
| 2 | Fischer, William C. 1981. **Photo Guide for Appraising Downed Woody Fuels in Montana Forests: Ponderosa Pine, Ponderosa Pine – Larch – Douglas-fir, Larch – Douglas-fir, and Interior Douglas-fir Cover Types**. USDA Forest Service, Gen. Tech. Rep. INT-97, 133 p. Intermt. For. And Range Exp. Stn., Ogden, UT 84401. |
| 3 | Fischer, William C. 1981. **Photo Guide for Appraising Downed Woody Fuels in Montana Forests: Lodgepole Pine and Englemann Spruce-Subapline fir Cover Types**. USDA Forest Service, Gen. Tech. Rep. INT-98. 143 p. Intermt. For. and Range Exp. Stn., Ogden, UT 84401. |
| 4 | Fischer, William C. 1981. **Photo Guides for Appraising Downed Woody Fuels in Montana Forests: How They Were Made**. USDA Forest Service, Res. Note INT-299, 12 p. Intermt. For. And Range Exp. Stn., Ogden, UT 84401. |
| 5 | Koski, Wayne H. and William C. Fischer. 1979. **Photo Series for Appraising Thinning Slash in North Idaho: Western Hemlock, Grand fir, and Western Redcedar Timber Types**. USDA Forest Service, Gen. Tech. Rep. INT-46, 50 p. Intermt. For. And Range Exp. Stn., Ogden, UT 84401 |
| 6 | Maxwell, Wayne G. and Franklin R. Ward. 1976. **Photo Series for Quantifying Forest Residues in the: Ponderosa Pine Type, Ponderosa Pine and Associated Species Types, Lodgepole Pine Type**. USDA Forest Service Gen. Tech. Rep. PNW-52, 74 p. Pacific Northwest Range Exp. Stn., Portland, OR 97208. |
| 7 | Blonski, Kenneth S. and Schramel, John L. 1981. **Photo Series for Quantifying Natural Forest Residues: Southern Cascades, Northern Sierra Nevada**. USDA Forest Service, Gen Tech. Rep. PSW-56, Pacific Southwest Forest and Range Exp. Stn., Forest Service, Berkeley, CA 145 p. |
| 8 | Maxwell, Wayne G. and Ward, Franklin R. 1980. **Photo Series for Quantifying Natural Forest Residues in Common Vegetation Types of the Pacific Northwest**. USDA Forest Service, Gen. Tech. Rep. PNW-105. Pacific Northwest Forest and Range Exp. Stn., Portland, OR. 229 p. |
| 9 | Ottmar, Roger D. and Hardy, Colin C. 1989. **Stereo Photo Series for Quantifying Forest Residues in Coastal Oregon Forests: Second Growth Douglas-fir—Western Hemlock Type, Western Hemlock—Sitka Spruce Type, and Red Alder Type**. USDA Forest Service, Gen. Tech. Rep. PNW-231. Pacific Northwest Range Exp. Stn., Portland, OR 67 p. |
| 10 | Mackay, Douglas H. and Everett M. Stiger, Delman Goss, Byron Bonney. **Photo Series for Quantifying Forest Residues in: Douglas-fir, Englemann Spruce Type, Limber Pine Type, Lodgepole Pine Type, Ponderosa Pine Type, Subalpine Fir Type for Eastern Montana**. USDA Forest Service Northern Region. 162 p. |
| 11 | Maxwell, Wayne G. 1982. **Photo Series for Quantifying Forest Residues in the Black Hills. Ponderosa Pine Type and Spruce Type. USDA Forest Service, Rocky Mountain Region**. Report Number A-89-6-82. 80 p. |
| 12 | Anonymous. **Photo Series for Quantifying Forest Residues in the Southwestern Region**. USDA Forest Service, Southwest Region, Albuquerque, NM. Date Unknown. 227 p. |
| 13 | Wayne G. Maxwell, Franklin R. Ward. 1976. **Photo Series for Quantifying Forest Residues in the Coastal Douglas-fir-Hemlock type, Coastal Douglas-fir-Hardwood Type**. USDA Forest Service, Gen. Tech. Rep. PNW-51. Northwest Forest and Range Experiment Station, Portland, OR. |
| 14 | NFES 2580. **Volume 1: Mixed Conifer with Mortality, Western Juniper, Sagebrush, and Grassland Types in the Interior Pacific Northwest**. |
| 15 | Ottmar, Roger D., R.E. Vihnanek, and S.C. Wright. 1998. **Stereo Photo Series for Quantifying Natural Fuels in Mixed-conifer with Mortality, Western Juniper, Sagebrush, and Grassland Types in the Interior Pacific Northwest**. |
| 23 | Ottmar, Roger D.; Colin C. Hardy, and Robert E. Vihnanek. 1990. **Stereo Photo Series for Quantifying Forest Residues in the Douglas-fir Hemlock Type of the Willamette National Forest**. PNW-GTR-258. 63 p. |
| 27 | Roger D. Ottmar et.al., 2004. 75 p. **Stereo Photo Series for Quantifying Natural Fuels. Volume VII: Oregon White Oak, California Deciduous Oak, and Mixed-Conifer with Shrub Types in the Western United States**. |

### Fuel Photo Codes

Table 54: Fuel Photo Codes for Reference 1

| **Code** |
| --- |
| 3A |
| 4A |
| 5A |
| 6A |
| 7A |
| 8A |
| 9A |
| 10A |
| 11A |
| 13A |
| 15 |
| 15A |
| 16 |
| 16A |
| 17A |
| 18A |
| 19A |
| 25 |
| 63 |
| 65 |
| 66 |
| 67 |

Table 55: Fuel Photo Codes for Reference 2

| **Code** |
| --- |
| 5 |
| 7 |
| 8 |
| 9 |
| 12A |
| 13 |
| 14 |
| 14A |
| 17 |
| 18 |
| 23 |
| 24 |
| 27A |
| 28 |
| 28A |
| 29 |
| 29A |
| 30 |
| 30A |
| 31 |
| 31A |
| 32 |
| 40A |
| 41A |
| 42 |
| 42A |
| 43 |
| 43A |
| 48 |
| 49 |
| 56 |
| 64 |
| 68 |
| 69 |
| 70 |
| 71 |
| 72 |
| 73 |
| 74 |
| 75 |
| 76 |
| 77 |
| 78 |
| 79 |
| 80 |
| 84 |
| 86 |
| 88 |
| 89 |
| 91 |
| 95 |

Table 56: Fuel Photo Codes for Reference 3

| **Code** |
| --- |
| 1 |
| 1A |
| 2 |
| 2A |
| 3 |
| 4 |
| 6 |
| 10 |
| 11 |
| 12 |
| 19 |
| 20 |
| 20A |
| 21 |
| 21A |
| 22 |
| 22A |
| 23A |
| 24A |
| 25A |
| 26 |
| 26A |
| 27 |
| 34A |
| 35 |
| 35A |
| 36 |
| 37 |
| 38 |
| 39 |
| 40 |
| 41 |
| 44 |
| 44A |
| 45 |
| 45A |
| 53 |
| 54 |
| 55 |
| 57 |
| 58 |
| 59 |
| 60 |
| 61 |
| 62 |
| 81 |
| 82 |
| 83 |
| 85 |
| 87 |
| 90 |
| 92 |
| 93 |
| 94 |
| 96 |
| 97 |
| 98 |

Table 57: Fuel Photo Codes for Reference 5

| **Code** |
| --- |
| 1WH1TH |
| 2WH1TH |
| 3WH1TH |
| 4WH1TH |
| 5WH1TH |
| 6WH1TH |
| 1GF1TH |
| 2GF1TH |
| 3GF1TH |
| 4GF1TH |
| 1WC1TH |
| 2WC1TH |
| 3WC1TH |
| 4WC1TH |
| 5WC1TH |
| 6WC1TH |
| 7WC1TH |

Table 58: Fuel Photo Codes for Reference 6

| **Code** |
| --- |
| 1PP4CC |
| 2PP4CC |
| 1PP4PC |
| 2PP4PC |
| 3PP4PC |
| 4PP4PC |
| 5PP4PC |
| 1PP1TH |
| 2PP1TH |
| 3PP1TH |
| 4PP1TH |
| 5PP1TH |
| 6PP1TH |
| 1PP&ASSOC4PC |
| 2PP&ASSOC4PC |
| 3PP&ASSOC4PC |
| 4PP&ASSOC4PC |
| 5PP&ASSOC4PC |
| 6PP&ASSOC4PC |
| 7PP&ASSOC4PC |
| 8PP&ASSOC4PC |
| 1LP3PC |
| 2LP3PC |
| 3LP3PC |
| 4LP3PC |
| 5LP3P |

Table 59: Fuel Photo Codes for Reference 7

| **Code** |
| --- |
| 1LP2 |
| 1LP3 |
| 1LP4 |
| 1MF4 |
| 1MH4 |
| 1MP4 |
| 1PP2 |
| 1PP3 |
| 1PP4 |
| 1RF3 |
| 1RF4 |
| 1WF2 |
| 1WF3 |
| 1WF4 |
| 2LP2 |
| 2LP3 |
| 2MF4 |
| 2MP4 |
| 2PP2 |
| 2PP3 |
| 2PP4 |
| 2RF3 |
| 2RF4 |
| 2WF2 |
| 2WF3 |
| 2WF4 |
| 3LP2 |
| 3LP3 |
| 3MF4 |
| 1MP4 |
| 3MP4 |
| 3PP2 |
| 3PP3 |
| 3PP4 |
| 3RF3 |
| 3RF4 |
| 3WF2 |
| 3WF3 |
| 3WF4 |
| 4LP2 |
| 4LP3 |
| 4MF4 |
| 4MP4 |
| 4PP2 |
| 4PP3 |
| 4RF3 |
| 4RF4 |
| 4WF2 |
| 4WF3 |
| 4WF4 |
| 5LP2 |
| 5MF4 |
| 5MP4 |
| 5RF3 |
| 5RF4 |
| 5WF3 |
| 5WF4 |

Table 60: Fuel Photo Codes for Reference 8

| **Code** |
| --- |
| 1BR |
| 1DF2 |
| 1DF3 |
| 1DF4 |
| 1DFHD3 |
| 1DFHD4 |
| 1GR |
| 1HD2 |
| 1JU2 |
| 1LP1 |
| 1LP2 |
| 1LP3 |
| 1MC2 |
| 1MC3 |
| 1MC4 |
| 1PP&ASSOC3 |
| 1PP&ASSOC4 |
| 1PP1 |
| 1PP2 |
| 1PP3 |
| 1PP4 |
| 1SA1 |
| 1SA2 |
| 1SA3 |
| 1SA4 |
| 2BR |
| 2DF2 |
| 2DF3 |
| 2DF4 |
| 2DFHD3 |
| 2DFHD4 |
| 2GR |
| 2HD2 |
| 2JU2 |
| 2LP1 |
| 2LP2 |
| 2LP3 |
| 2MC2 |
| 2MC3 |
| 2MC4 |
| 2PP&ASSOC3 |
| 2PP&ASSOC4 |
| 2PP1 |
| 2PP2 |
| 2PP3 |
| 2PP4 |
| 2SA1 |
| 2SA2 |
| 2SA3 |
| 2SA4 |
| 3DFHD3 |
| 3DFHD4 |
| 3LP1 |
| 3LP2 |
| 3LP3 |
| 3MC2 |
| 3MC3 |
| 3PP&ASSOC3 |
| 3PP&ASSOC4 |
| 3PP1 |
| 3PP2 |
| 3PP3 |
| 3PP4 |
| 3SA1 |
| 3SA3 |
| 4DF4 |
| 4DFHD4 |
| 4LP2 |
| 4PP&ASSOC3 |
| 4PP2 |
| 4PP3 |
| 4PP4 |
| 4DF4 |
| 5DFHD4 |
| 5PP&ASSOC3 |
| 5PP3 |
| 5PP4 |
| 6DF4 |
| 6PP3 |
| 6PP4 |
| 7DF4 |
| 7PP3 |
| 7PP4 |
| 8PP3 |
| 8PP4 |

Table 61: Fuel Photo Codes for Reference 9

| **Code** |
| --- |
| 1DFWHPRE01 |
| 1DFWHPRE02 |
| 1DFWHPRE03 |
| 1DFWHPRE04 |
| 1DFWHPRE05 |
| 1DFWHPRE06 |
| 1DFWHPRE07 |
| 1DFWHPRE08 |
| 1DFWHPRE09 |
| 2WHSSPRE01 |
| 3RAPRE01 |
| 3RAPRE02 |
| 3RAPRE03 |
| 3RAPRE05 |
| 3RAPRE06 |
| RAPRE07 |
| 4DFWHPOST01 |
| 4DFWHPOST02 |
| 4DFWHPOST03 |
| 4DFWHPOST04 |
| 5RAPOST01 |
| 5RAPOST02 |
| 5RAPOST03 |
| 5RAPOST04 |
| 5RAPOST05 |

Table 62: Fuel Photo Codes for Reference 11

| **Code** |
| --- |
| 1PP1 |
| 1PP1PPC |
| 1PP1TH |
| 1PP2 |
| 1PP3 |
| 1PP3CC |
| 1PP3PC |
| 1PPSP3PC |
| 1SP3PC |
| 2PP1TH |
| 2PP2 |
| 2PP2PC |
| 2PP3PC |
| 2PPSP3PC |
| 2SP3PC |
| 3PP1TH |
| 3PP2PC |
| 3PP3PC |
| 3PPSP3PC |
| 4PP1TH |
| 4PP2PC |
| 5PP1TH |
| 5PP2PC |
| 6PP1TH |
| 7PP1TH |

Table 63: Fuel Photo Codes for Reference 12

| **Code** |
| --- |
| 1AZPPSPPRE01 |
| 1AZPPSPPRE02 |
| 1AZPPSPRE03 |
| 1AZPPSPRE04 |
| 1JU2 |
| 1MC2 |
| 1MC3 |
| 1PP&ASSOC3 |
| 1PP&ASSOC4 |
| 1PP1 |
| 1PP1(BH) |
| 1PP1TH |
| 1PP1TH(BH) |
| 1PP2 |
| 1PP2(BH) |
| 1PP2(PNW-105) |
| 1PP2PC |
| 1PP3 |
| 1PP3(BH) |
| 1PP3(PNW-105) |
| 1PP3CC |
| 1PP3PC |
| 1PP4 |
| 1PP4PC |
| 1PP4(PNW-105) |
| 1PPSPEPC |
| 1SP3PC |
| 2JU2 |
| 2MC2 |
| 2MC3 |
| 2PP&ASSOC3 |
| 2PP&ASSOC4 |
| 2PP1 |
| 2PP1TH |
| 2PP1TH(BH) |
| 2PP2 |
| 2PP2(BH) |
| 2PP2(PNW-105) |
| 2PP2PC |
| 2PP3CC |
| 2PP3PC |
| 2PP3 |
| 2PP3(PNW-105) |
| 2PP4 |
| 2PP4PC |
| 2PP4(PNW-105) |
| 2PPSP3PC |
| 2SP3PC |
| 3MC2 |
| 3MC3 |
| 3PP&ASSOC3 |
| 3PP&ASSOC4 |
| 3PP1 |
| 3PP1TH |
| 3PP2 |
| 3PP2(PNW-105) |
| 3PP2PC |
| 3PP3PC |
| 3PP3 |
| 3PP3(PNW-105) |
| 3PP4 |
| 3PP4PC |
| 3PP4(PNW-105) |
| 3PPSP3PC |
| 3WF2 |
| 3WF3 |
| 4PP&ASSOC3 |
| 4PP1TH |
| 4PP1TH(BH) |
| 4PP2 |
| 4PP2(PNW-105) |
| 4PP2PC |
| 4PP3 |
| 4PP3(PNW-105) |
| 4PP4 |
| 4PP4PC |
| 4WF3 |
| 5PP&ASSOC3 |
| 5PP1TH |
| 5PP1TH(BH) |
| 5PP2PC |
| 5PP3 |
| 5PP4PC |
| 6PP1TH |
| 6PP1TH(BH) |
| 6PP3 |
| 7PP1TH |
| 7PP1TH(BH) |
| 7PP3 |
| 8PP3 |

Table 64: Fuel Photo Codes for Reference 13

| **Code** |
| --- |
| 10DF4CC |
| 1DF1TH |
| 1DF3PC |
| 1DF4CC |
| 1DF4PC |
| 1DFHD4CC |
| 1DFHD4PC |
| 2DF1TH |
| 2DF3PC |
| 2DF4CC |
| 2DF4PC |
| 2DFHD4CC |
| 2DFHD4PC |
| 3DF1TH |
| 3DF3PC |
| 3DF4CC |
| 3DF4PC |
| 3DFHD4CC |
| 3DFHD4PC |
| 4DF1TH |
| 4DF3PC |
| 4DF4CC |
| 4DF4PC |
| 4DFHD4CC |
| 4DFHD4PC |
| 5DF3PC |
| 5DF4CC |
| 5DF4PC |
| 5DFHD4CC |
| 5DFHD4PC |
| 6DF3PC |
| 6DF4CC |
| 6DF4PC |
| 6DFHD4CC |
| 6DFHD4PC |
| 7DF4CC |
| 7DF4PC |
| 7DFHD4CC |
| 8DF4CC |
| 8DF4PC |
| 9DF4CC |
| 9DF4PC |

Table 65: Fuel Photo Codes for Reference 14

| **Code** |
| --- |
| MC01 |
| MC02 |
| MC03 |
| MC04 |
| MC05 |
| MC06 |
| MC07 |
| MC08 |
| MC09 |
| MC10 |
| MC11 |
| MC12 |
| MC13 |
| MC14 |
| MC15 |
| MC16 |
| MC17 |
| WJ01 |
| WJ02 |
| WJ03 |
| WJ04 |

Table 66: Fuel Photo Codes for Reference 15

| **Code** |
| --- |
| BG01 |
| BG02 |
| BG03 |
| BG04 |
| MC01 |
| MC02 |
| MC03 |
| MC04 |
| MC05 |
| MC06 |
| MC07 |
| MC08 |
| MC09 |
| MC10 |
| MC11 |
| MC12 |
| MC13 |
| MC14 |
| MC15 |
| MC16 |
| MC17 |
| SB01 |
| SB02 |
| SB03 |
| SB04 |
| SG04 |
| WJ01 |
| WJ02 |
| WJ03 |
| WJ04 |

Table 67: Fuel Photo Codes for Reference 23

| **Code** |
| --- |
| 1DFWHPRE01 |
| 1DFWHPRE02 |
| 1DFWHPRE03 |
| 1DFWHPRE04 |
| 1DFWHPRE05 |
| 1DFWHPRE06 |
| 1DFWHPRE07 |
| 1DFWHPRE08 |
| 1DFWHPRE09 |
| 1DFWHPRE10 |
| 1DFWHPRE11 |
| 1DFWHPRE12 |
| 1DFWHPRE13 |
| 1DFWHPRE14 |
| 1DFWHPRE15 |
| 1DFWHPRE16 |
| 1DFWHPRE17 |
| 1DFWHPRE18 |
| 1DFWHPRE19 |
| 2DFWHPOST01 |
| 2DFWHPOST02 |
| 2DFWHPOST03 |
| 2DFWHPOST04 |
| 2DFWHPOST05 |
| 2DFWHPOST06 |
| 2DFWHPOST07 |

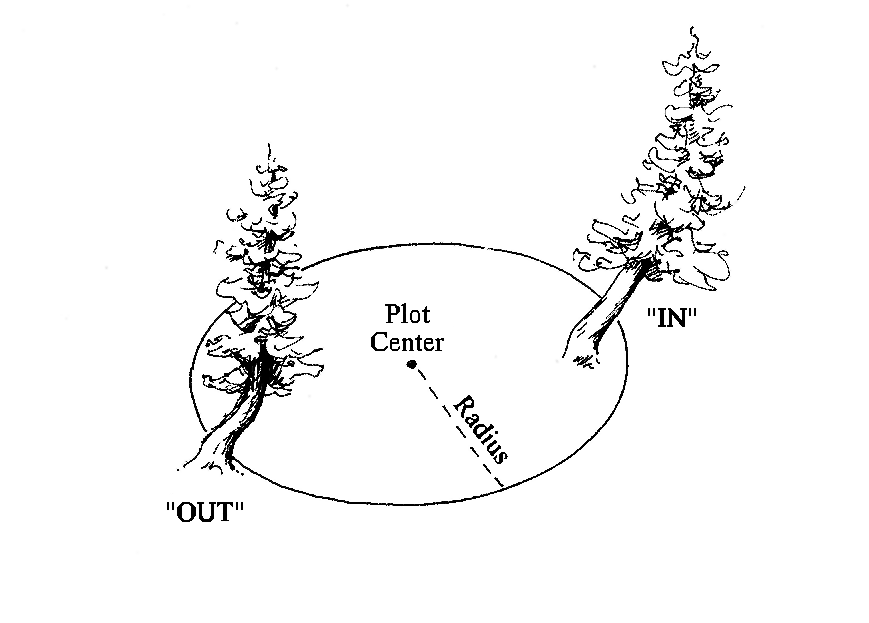
Table 68: Fuel Photo Codes for Reference 27

| **Code** |
| --- |
| WO-01 |
| WO-02 |
| WO-03 |
| WO-04 |
| WO-05 |
| WO-06 |
| WO-07 |
| WO-08 |
| WO-09 |
| WO-10 |
| CDO-01 |
| CDO-02 |
| CDO-03 |
| CDO-04 |
| CDO-05 |
| CDO-06 |
| CDO-07 |
| CDO-08 |
| CDO-09 |
| MCS-01 |
| MCS-02 |
| MCS-03 |
| MCS-04 |
| MCS-05 |
| MCS-06 |
| MCS-07 |
| MCS-08 |
| MCS-09 |
| MCS-10 |
| MCS-11 |

## Appendix I: Fixed Radius Plot

A fixed radius plot is used to sample trees that are less than the specified breakpoint diameter. These sample trees are determined to be “in” or “out” at ground line. If the measured distance from plot center to the central axis of the tree at ground line is equal to or less than the fixed plot radius the tree is tallied as a sample tree. If this distance is greater than the fixed plot radius, the tree is not tallied.

Figure 1: Trees “in” and “out” of fixed radius plot



On level ground, the fixed plot radius is determined by holding the measuring tape or pole in a horizontal position from plot center to the central axis of the sample tree. On slopes greater than 9 percent, if a measuring tape or pole cannot be horizontally from plot center to the central axis of the sample tree, the fixed plot radius is corrected for the slope percent by using one of the following methods.

### Method 1

Correct the fixed plot radius for slope percent using the “Circular Plot Radii Corrected for Slope” table and then measuring distances parallel to the ground line. This method always results in a circular plot on the slope. Example – 1/300 acre fixed plot on 50 percent slope. Corrected fixed plot radius is 7.2 feet.

Figure 2: Correcting the fixed plot radius for slope percent

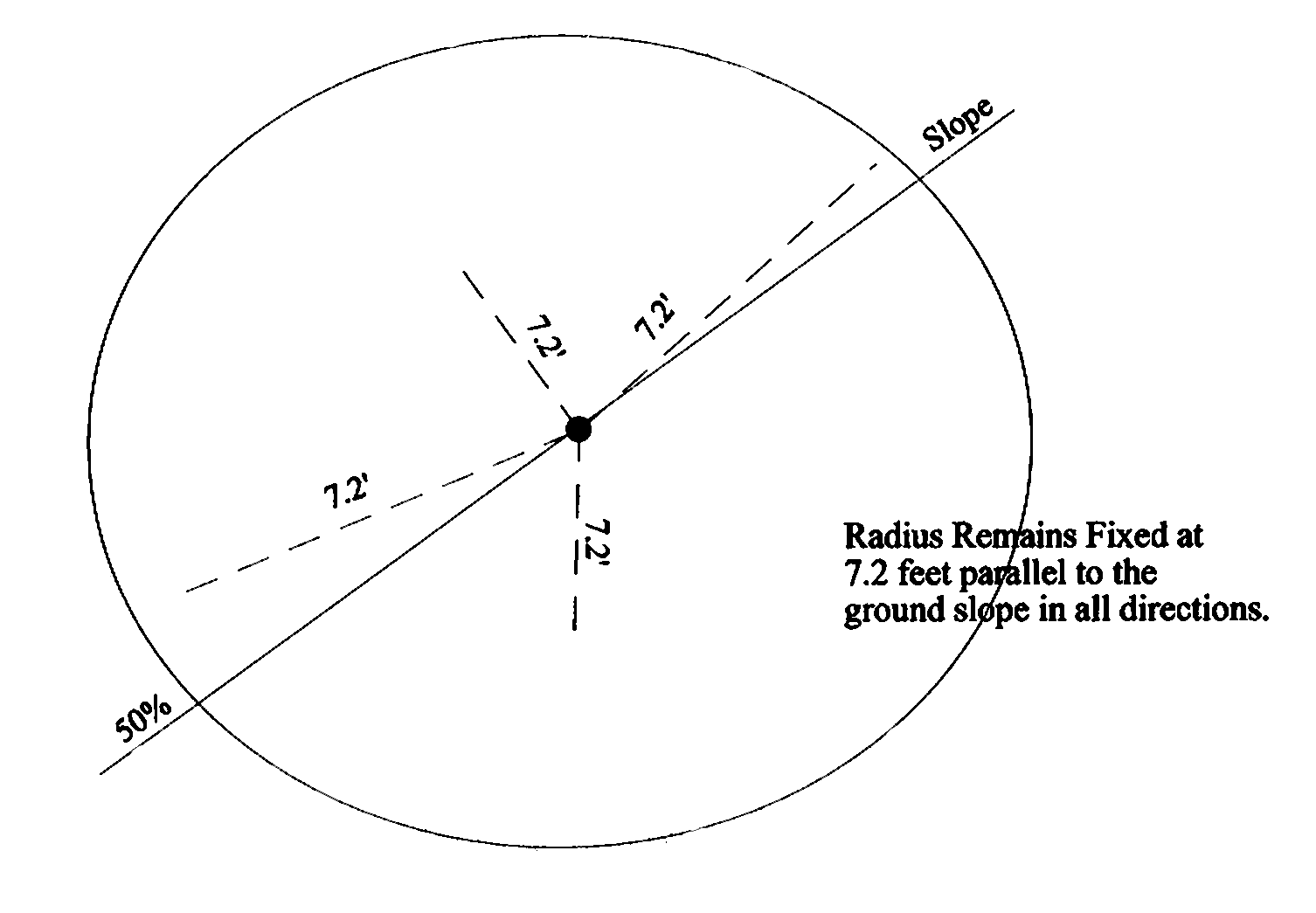


Table 69: Circular Plot Radii Corrected for Slope; plot size in acres

| **Slope %** | **1/300** | **1/100** | **1/50** | **1/20** | **1/10** | **1/5** |
| --- | --- | --- | --- | --- | --- | --- |
| 0-9 | 6.8 | 11.8 | 16.7 | 26.3 | 37.2 | 52.7 |
| 10-17 | 6.8 | 11.8 | 16.7 | 26.5 | 37.4 | 52.9 |
| 18-22 | 6.9 | 11.9 | 16.8 | 26.6 | 37.6 | 53.2 |
| 23-26 | 6.9 | 12.0 | 16.9 | 26.7 | 37.8 | 53.4 |
| 27-30 | 6.9 | 12.0 | 17.0 | 26.9 | 38.0 | 53.7 |
| 31-33 | 7.0 | 12.1 | 17.1 | 27.0 | 38.2 | 54.0 |
| 34-36 | 7.0 | 12.1 | 17.1 | 27.1 | 38.3 | 54.2 |
| 37-39 | 7.0 | 12.2 | 17.2 | 27.2 | 38.5 | 54.5 |
| 40-42 | 7.1 | 12.2 | 17.3 | 27.4 | 38.7 | 54.7 |
| 43-44 | 7.1 | 12.3 | 17.4 | 27.5 | 38.9 | 55.0 |
| 45-47 | 7.1 | 12.3 | 17.5 | 27.6 | 39.1 | 55.2 |
| 48-49 | 7.2 | 12.4 | 17.5 | 27.7 | 39.2 | 55.5 |
| 50-51 | 7.2 | 12.5 | 17.6 | 27.9 | 39.4 | 55.7 |
| 52-53 | 7.2 | 12.5 | 17.7 | 28.0 | 39.6 | 56.0 |
| 54-55 | 7.3 | 12.6 | 17.8 | 28.1 | 39.8 | 56.2 |
| 56-57 | 7.3 | 12.6 | 17.9 | 28.2 | 39.9 | 56.5 |
| 58-59 | 7.3 | 12.7 | 17.9 | 28.4 | 40.1 | 56.7 |
| 60-61 | 7.4 | 12.7 | 18.0 | 28.5 | 40.3 | 57.0 |
| 62-63 | 7.4 | 12.8 | 18.1 | 28.6 | 40.4 | 57.2 |
| 64-65 | 7.4 | 12.8 | 18.2 | 28.7 | 40.6 | 57.4 |
| 66-67 | 7.4 | 12.9 | 18.2 | 28.8 | 40.8 | 57.7 |
| 68-69 | 7.5 | 13.0 | 18.3 | 29.0 | 41.0 | 57.9 |
| 70 | 7.5 | 13.0 | 18.4 | 29.1 | 41.1 | 58.2 |
| 71-72 | 7.5 | 13.1 | 18.5 | 29.2 | 41.3 | 58.4 |
| 73-74 | 7.6 | 13.1 | 18.5 | 29.3 | 41.5 | 58.6 |
| 75 | 7.6 | 13.2 | 18.6 | 29.4 | 41.6 | 58.7 |
| 76-77 | 7.6 | 13.2 | 18.7 | 29.6 | 41.8 | 59.1 |
| 78-79 | 7.7 | 13.3 | 18.8 | 29.7 | 42.0 | 59.3 |
| 80 | 7.7 | 13.3 | 18.8 | 29.8 | 42.1 | 59.6 |
| 81-82 | 7.7 | 13.4 | 18.9 | 29.9 | 42.3 | 59.8 |
| 83 | 7.8 | 13.4 | 19.0 | 30.0 | 42.5 | 60.0 |
| 84-85 | 7.8 | 13.5 | 19.1 | 30.1 | 42.6 | 60.3 |
| 86 | 7.8 | 13.5 | 19.1 | 30.3 | 42.8 | 60.5 |
| 87-88 | 7.8 | 13.6 | 19.2 | 30.4 | 42.9 | 60.7 |
| 89 | 7.9 | 13.6 | 19.3 | 30.5 | 43.1 | 61.0 |
| 90-91 | 7.9 | 13.7 | 19.3 | 30.6 | 43.3 | 61.2 |
| 92 | 7.9 | 13.7 | 19.4 | 30.7 | 43.4 | 61.4 |
| 93-94 | 8.0 | 13.8 | 19.5 | 30.8 | 43.6 | 61.6 |
| 95 | 8.0 | 13.8 | 19.6 | 30.9 | 43.7 | 61.9 |
| 96-97 | 8.0 | 13.9 | 19.6 | 31.0 | 43.9 | 62.1 |
| 98 | 8.0 | 13.9 | 19.7 | 31.2 | 44.1 | 62.3 |
| 99-100 | 8.1 | 14.0 | 19.8 | 31.3 | 44.2 | 62.5 |
| 101 | 8.1 | 14.0 | 19.8 | 31.4 | 44.4 | 62.8 |
| 102 | 8.1 | 14.1 | 19.9 | 31.5 | 44.5 | 63.0 |
| 103-104 | 8.2 | 14.1 | 20.0 | 31.6 | 44.7 | 63.2 |
| 105 | 8.2 | 14.2 | 20.1 | 31.7 | 44.8 | 63.4 |
| 106-107 | 8.2 | 14.2 | 20.1 | 31.8 | 45.0 | 63.6 |
| 108 | 8.2 | 14.3 | 20.2 | 31.9 | 45.1 | 63.8 |
| 109 | 8.3 | 14.3 | 20.3 | 32.0 | 45.3 | 64.1 |
| 110-111 | 8.3 | 14.4 | 20.3 | 32.1 | 45.5 | 64.3 |
| 112 | 8.3 | 14.4 | 20.4 | 32.2 | 45.6 | 64.5 |
| 113 | 8.4 | 14.5 | 20.5 | 32.4 | 45.8 | 64.7 |
| 114-115 | 8.4 | 14.5 | 20.5 | 32.5 | 45.9 | 64.9 |
| 116 | 8.4 | 14.6 | 20.6 | 32.6 | 46.1 | 65.1 |
| 117 | 8.4 | 14.6 | 20.7 | 32.7 | 46.2 | 65.3 |
| 118-119 | 8.5 | 14.7 | 20.7 | 32.8 | 46.4 | 65.6 |
| 120 | 8.5 | 14.7 | 20.8 | 32.9 | 46.5 | 65.8 |
| 121 | 8.5 | 14.8 | 20.9 | 33.0 | 46.7 | 66.0 |
| 122 | 8.5 | 14.8 | 20.9 | 33.1 | 46.8 | 66.2 |
| 123-124 | 8.6 | 14.8 | 21.0 | 33.2 | 47.0 | 66.4 |
| 125 | 8.6 | 14.9 | 21.1 | 33.3 | 47.1 | 66.6 |
| 130 | 8.7 | 15.1 | 21.3 | 33.7 | 47.7 | 67.4 |
| 135 | 8.8 | 15.3 | 21.6 | 34.1 | 48.3 | 68.3 |
| 140 | 8.9 | 15.4 | 21.8 | 34.5 | 48.8 | 69.1 |
| 145 | 9.0 | 15.6 | 22.1 | 34.9 | 49.4 | 69.9 |
| 150 | 9.1 | 15.8 | 22.3 | 35.3 | 50.0 | 70.0 |

### Method 2

Determine the slope limiting distance to borderline trees by using the “Slope Correction Table” (the slope being corrected is the slope from plot center to the tree, not the overall plot slope). Measure the distance parallel to the ground line to the borderline tree. This method always results in an oval on the slope. Following is a list of fixed plot sizes and the specific radius for each.

Table 70: Method 2 plot size/radius slope

| **Plot Size** | **Plot Radius** |
| --- | --- |
| 1/1000 | 3.7 feet |
| 1/500 | 5.3 feet |
| 1/400 | 5.9 feet |
| 1/300 | 6.8 feet |
| 1/250 | 7.4 feet |
| 1/200 | 8.3 feet |
| 1/150 | 9.6 feet |
| 1/100 | 11.8 feet |
| 1/50 | 16.7 feet |
| 1/20 | 26.3 feet |
| 1/10 | 37.2 feet |
| 1/5 | 52.7 feet |
| 1/4 | 58.9 feet |
| 1/3 | 68.0 feet |
| 1/2 | 83.3 feet |
| 1 | 117.8 feet |

To determine the slope limiting distance, multiply the plot radius for the appropriate plot size by the appropriate slope correction factor.

#### Example 1

1/300 acre fixed plot with a borderline tree on a 45 percent slope. A 1/300-acre plot equals a 6.8-foot radius and the slope correction factor for a 45 percent slope is 1.10. 6.8 x 1.10 = 7.48; thus, a tree on a 1/300 acre fixed plot at a 45 percent slope can be 7.5 feet from plot center.

#### Example 2

The same plot has another borderline tree on a 25 percent slope. The slope correction factor for a 25 percent slope is 1.03. 6.8 x 1.03 = 7.0; thus, a tree on a 1/300 acre fixed plot at a 25 percent slope can be 7.0 feet from plot center.

Figure 3: Plot size radius slope

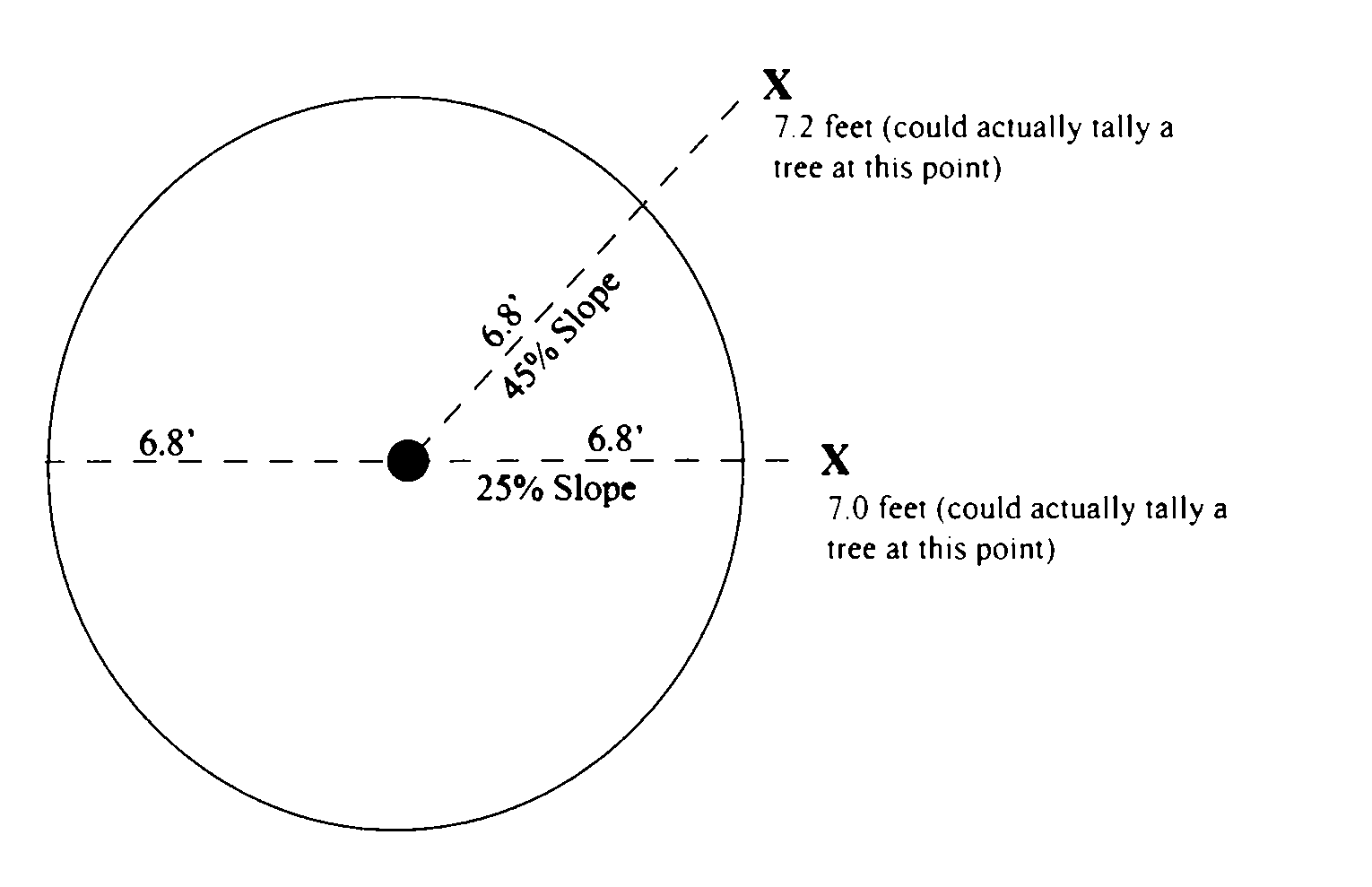


Table 71: Slope Correction Table

| **Percent of Slope** | **Degree of Slope** | **Correction Factor** |
| --- | --- | --- |
| 0 to 9 | 0-6 | 1.00 |
| 10 to 17 | 7-10 | 1.01 |
| 18 to 22 | 11-12 | 1.02 |
| 23 to 26 | 13-14 | 1.03 |
| 27 to 30 | 15-17 | 1.04 |
| 31 to 33 | 18 | 1.05 |
| 34 to 36 | 19-20 | 1.06 |
| 37 to 39 | 21 | 1.07 |
| 40 to 42 | 22 | 1.08 |
| 43 to 44 | 23 | 1.09 |
| 45 to 47 | 24 | 1.10 |
| 48 to 49 | 25-26 | 1.11 |
| 50 to 51 | 27 | 1.12 |
| 52 to 53 | 28 | 1.13 |
| 54 to 55 | 29 | 1.14 |
| 56 to 57 | 29 | 1.15 |
| 58 to 59 | 30 | 1.16 |
| 60 to 61 | 31 | 1.17 |
| 62 to 63 | 32 | 1.18 |
| 64 to 65 | 33 | 1.19 |
| 66 to 67 | 34 | 1.20 |
| 68 to 69 | 34 | 1.21 |
| 70 | 35 | 1.22 |
| 71 to 72 | 36 | 1.23 |
| 73 to 74 | 37 | 1.24 |
| 75 | 37 | 1.25 |
| 76 to 77 | 38 | 1.26 |
| 78 to 79 | 38 | 1.27 |
| 80 | 39 | 1.28 |
| 81 to 82 | 39 | 1.29 |
| 83 | 40 | 1.30 |
| 84 to 85 | 40 | 1.31 |
| 86 | 41 | 1.32 |
| 87 to 88 | 41 | 1.33 |
| 89 | 42 | 1.34 |
| 90 to 91 | 42 | 1.35 |
| 92 | 43 | 1.36 |
| 93 to 94 | 43 | 1.37 |
| 95 | 44 | 1.38 |
| 96 to 97 | 44 | 1.39 |
| 98 | 44 | 1.40 |
| 99 to 100 | 45 | 1.41 |
| 101 | 45 | 1.42 |
| 102 | 46 | 1.43 |
| 103 to 104 | 46 | 1.44 |
| 105 | 46 | 1.45 |
| 106 to 107 | 47 | 1.46 |
| 108 | 47 | 1.47 |
| 109 | 47 | 1.48 |
| 110 to 111 | 48 | 1.49 |
| 112 | 48 | 1.50 |
| 113 | 48 | 1.51 |
| 114 to 115 | 49 | 1.52 |
| 116 | 49 | 1.53 |
| 117 | 49 | 1.54 |
| 118 to 119 | 50 | 1.55 |
| 120 | 50 | 1.56 |
| 121 | 50 | 1.57 |
| 122 | 51 | 1.58 |
| 123 to 124 | 51 | 1.59 |
| 125 | 51 | 1.60 |
| 126 | 52 | 1.61 |
| 127 to 128 | 52 | 1.62 |
| 129 | 52 | 1.63 |
| 130 | 52 | 1.64 |
| 131 | 53 | 1.65 |
| 132 to 133 | 53 | 1.66 |
| 134 | 53 | 1.67 |
| 135 | 53 | 1.68 |
| 136 | 54 | 1.69 |
| 137 to 138 | 54 | 1.70 |
| 139 | 54 | 1.71 |
| 140 | 54 | 1.72 |
| 141 | 55 | 1.73 |
| 142 to 143 | 55 | 1.74 |
| 144 | 55 | 1.75 |
| 145 | 55 | 1.76 |
| 146 | 56 | 1.77 |
| 147 | 56 | 1.78 |
| 148 to 149 | 56 | 1.79 |
| 150 | 56 | 1.80 |

## Appendix J: Variable Radius Plot

### Introduction

In or our determination is made at the DBH or DRC of each tree. For information on the theory and mathematics of variable plot cruising, and formulas for determining the plot radius factor for any given BAF, the reader is referred to **Log Scaling and Timber Cruising**, 1973, J.R. Dilworth. OSU Book Stores, Inc., Corvallis, Oregon.

The experienced field person using a wedge prism, angle gauge, or relaskop can quickly tell in which case trees are “in” or “out” on the variable plot. However, there are certain trees that are questionable (borderline) for tally because they are located at the outer limits of the variable plot radius. This narrative deals with the procedures needed to ascertain if these borderline trees should be tallied: the mechanics of using plot radius tables in the field, the associated measurements, and corrections of variable plot radii for slope.

### Measurement of Borderline Trees to Determine “In or Out” Status

In variable plot sampling, the plot radius varies according to the DBH or DRC of each tree. To determine whether a tree is to be sampled requires measurement of its DBH or DRC and its distance from plot center. Table 72, Table 73, Table 74, Table 75, Table 76, Table 77, and Table 78 display limiting distances (the maximum horizontal distance from plot center to the face of the tree at breast height for a tree to be considered “in”) for various tree diameters and commonly used basal area factors (BAF).

Once the DBH or DRC of the borderline tree is taken, the limiting distance is found by entering the table appropriate for the specified BAF. This limiting distance is then compared to the horizontal distance between plot center and the nearest **face of the tree** at breast height. If the measured horizontal distance from plot center is less than or equal to the limiting distance from the table, the tree in question is “in” and is tallied as a sample tree. However, if measured horizontal distance from plot center is greater than the limiting distance, then the tree in question is “out” and is not tallied.

1. Measure the diameter to the nearest tenth of an inch
2. Measure the percent slope from the face of the tree at DBH or DRC to plot center

**If the slope is less than ten percent** look up limiting distance in Tables 1 through 5 or use the BAF correction factors listed in Table 78 below.

Table 72: BAF correction factors

| **Type** | **Correction Factors** | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BAF | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 50 | 60 |
| Plot Radius Factor\* | 27.08 | 2.203 | 1.902 | 1.697 | 1.546 | 1.428 | 1.333 | 1.188 | 1.081 |

\* This is a corrected plot radius factor, corrected for determining the limiting distance to the face of the tree. A standard plot radius factor was used to determine limiting distance to the center of a tree, and is computed by 8.696/SQR(BAF). A corrected PRF subtracts 1/24 (0.041666) from the standard plot radius factor.

**Example:**

BAF = 40; DBH = 20.9 inches; Slope = 5%

Limiting Distance = Plot Radius Factor \* DBH, 1.333 \* 20.9 = 27.9 feet

1. **If the slope is greater than ten percent**, first determine the slope correction factor. The slope correction factor and the slope corrected plot radius factor can be obtained by using the formula below or by referring to Table 77. Then, multiply the slope correction factor by the plot radius factor identified in step #3 above to obtain the slope corrected plot radius factor. Finally, multiply the slope corrected plot radius factor by the diameter to obtain the limiting distance.

**Example:**

BAF = 40; DBH = 20.9 inches; Slope = 20%

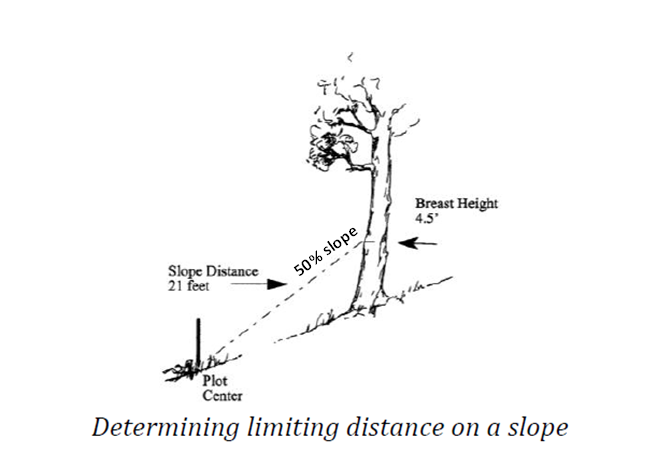
Slope Correction Factor = SQR (1 + (slope/100)2) = SQR (1 + (20/100)2) = 1.0198

Slope Corrected Plot Radius Factor = Slope Correction Factor \* Plot Radius Factor = 1.0198 \* 1.333 = 1.359

Limiting Distance = Slope Corrected Plot Radius Factor \* DBH = 1.359 \* 20.9 = 28.4 feet

1. Measure the distance from plot center to the face of the tree, nearest plot center, at DBH or DRC. Both the slope measurement and distance measurement must be taken at plot center. If the measured distance is less than the limiting distance, the tree is “in.”

Figure 4: Determining limiting distance on a slope



**Example:**

BAF = 40; DBH = 15.0; Slope = 50%; Slope Distance = 21.0 feet

Referring to Table 77, the Combined Factor for a slope of 50% with a 4- BAF is 1.490.

Limiting Distance = DBH \* Combined Factor = 15.0 \* 1.490 = 22.35

Since 21.0 is less than or equal to the limiting distance of 22.35 feet, the tree is “in” and is tallied as a sample tree.

#### Measuring “In” or “Out” Down Trees

Down trees are “in” or “out” of the variable plot radius based on where the DBH or DRC now lies, not on where the tree once stood. The distance measurement is taken from plot center to the nearest face of the tree at breast height.

Table 73: BAF 10 Plot Radii in Feet and Tenths of Feet from Plot Center to Face of Tree at DBH for 0% Slope

| **Inches** | **0** | **0.1** | **0.2** | **0.3** | **0.4** | **0.5** | **0.6** | **0.7** | **0.8** | **0.9** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 5 | 13.5 | 13.8 | 14.1 | 14.4 | 14.6 | 14.9 | 15.2 | 15.4 | 15.7 | 16.0 |
| 6 | 16.2 | 16.5 | 16.8 | 17.1 | 17.3 | 17.6 | 17.9 | 18.1 | 18.4 | 18.7 |
| 7 | 19.0 | 19.2 | 19.5 | 19.8 | 20.0 | 20.3 | 20.6 | 20.9 | 21.1 | 21.4 |
| 8 | 21.7 | 21.9 | 22.2 | 22.5 | 22.7 | 23.0 | 23.3 | 23.6 | 23.8 | 24.1 |
| 9 | 24.4 | 24.6 | 24.9 | 25.2 | 25.5 | 25.7 | 26.0 | 26.3 | 26.5 | 26.8 |
| 10 | 27.1 | 27.4 | 27.6 | 27.9 | 28.2 | 28.4 | 28.7 | 29.0 | 29.2 | 29.5 |
| 11 | 29.8 | 30.1 | 30.3 | 30.6 | 30.9 | 31.1 | 31.4 | 31.7 | 32.0 | 32.2 |
| 12 | 32.5 | 32.8 | 38.5 | 38.7 | 39.0 | 39.3 | 39.5 | 39.8 | 40.1 | 40.3 |
| 13 | 35.2 | 35.5 | 35.7 | 36.0 | 36.3 | 36.6 | 36.8 | 37.1 | 37.4 | 37.6 |
| 14 | 37.9 | 38.2 | 38.5 | 38.7 | 39.0 | 39.3 | 39.5 | 39.8 | 40.1 | 40.3 |
| 15 | 40.6 | 40.9 | 41.2 | 41.4 | 41.7 | 42.0 | 42.2 | 42.5 | 42.8 | 43.1 |
| 16 | 43.3 | 43.6 | 43.9 | 44.1 | 44.4 | 44.7 | 45.0 | 45.2 | 45.5 | 45.8 |
| 17 | 46.0 | 46.3 | 46.6 | 46.8 | 47.1 | 47.4 | 47.7 | 47.9 | 48.2 | 48.5 |
| 18 | 48.7 | 49.0 | 49.3 | 49.6 | 49.8 | 50.1 | 50.4 | 50.6 | 50.9 | 51.2 |
| 19 | 51.5 | 51.7 | 52.0 | 52.3 | 52.5 | 52.8 | 53.1 | 53.3 | 53.6 | 53.9 |
| 20 | 54.2 | 54.4 | 54.7 | 55.0 | 55.2 | 55.5 | 55.8 | 56.1 | 56.3 | 56.6 |
| 21 | 56.9 | 57.1 | 57.4 | 57.7 | 58.0 | 58.2 | 58.5 | 58.8 | 59.0 | 59.3 |
| 22 | 59.6 | 57.1 | 57.4 | 57.7 | 58.0 | 58.2 | 58.5 | 58.8 | 59.0 | 59.3 |
| 23 | 62.3 | 62.6 | 62.8 | 63.1 | 63.4 | 63.6 | 63.9 | 64.2 | 64.5 | 64.7 |
| 24 | 65.0 | 65.3 | 65.5 | 65.8 | 66.1 | 66.3 | 66.6 | 66.9 | 67.2 | 67.4 |
| 25 | 67.7 | 68.0 | 68.2 | 63.1 | 63.4 | 63.6 | 63.9 | 64.2 | 64.5 | 64.7 |
| 26 | 70.4 | 70.7 | 70.9 | 71.2 | 71.5 | 71.8 | 72.0 | 72.3 | 72.6 | 72.8 |
| 27 | 73.1 | 73.4 | 73.7 | 73.9 | 74.2 | 74.5 | 74.7 | 75.0 | 75.3 | 75.6 |
| 28 | 75.8 | 76.1 | 76.4 | 76.6 | 76.9 | 77.2 | 77.4 | 77.7 | 78.00 | 78.3 |
| 29 | 78.5 | 78.8 | 79.1 | 79.3 | 79.6 | 79.9 | 80.2 | 80.4 | 80.7 | 81.0 |
| 30 | 81.2 | 81.5 | 81.8 | 82.1 | 82.3 | 82.6 | 82.9 | 83.1 | 83.4 | 83.7 |
| 31 | 83.9 | 84.2 | 84.5 | 84.8 | 85.0 | 85.3 | 85.6 | 85.8 | 86.1 | 86.4 |
| 32 | 86.7 | 86.9 | 87.2 | 87.5 | 87.7 | 88.0 | 88.3 | 88.6 | 88.8 | 89.1 |
| 33 | 89.4 | 89.6 | 89.9 | 90.2 | 90.4 | 90.7 | 91.0 | 91.3 | 91.5 | 91.8 |
| 34 | 92.1 | 92.3 | 92.6 | 92.9 | 93.2 | 93.4 | 93.7 | 94.0 | 94.2 | 94.5 |
| 35 | 94.8 | 95.1 | 95.3 | 95.6 | 95.9 | 96.1 | 96.4 | 96.7 | 96.9 | 97.2 |
| 36 | 97.5 | 97.8 | 98.0 | 98.3 | 98.6 | 98.8 | 99.1 | 99.4 | 99.7 | 99.9 |
| 37 | 100.2 | 100.5 | 100.7 | 101.0 | 101.3 | 101.6 | 101.8 | 102.1 | 102.4 | 102.6 |
| 38 | 102.9 | 103.2 | 103.4 | 103.7 | 104.0 | 104.3 | 104.5 | 104.8 | 105.1 | 105.3 |
| 39 | 105.6 | 105.9 | 106.2 | 106.4 | 106.7 | 107.0 | 107.2 | 107.5 | 107.8 | 108.0 |
| 40 | 108.3 | 108.6 | 108.9 | 109.1 | 109.4 | 109.7 | 109.9 | 110.2 | 110.5 | 110.8 |
| 41 | 111.0 | 111.3 | 111.6 | 111.8 | 112.1 | 112.4 | 112.7 | 112.9 | 113.2 | 113.5 |
| 42 | 113.7 | 114.0 | 114.3 | 114.5 | 114.8 | 115.1 | 115.4 | 115.6 | 115.9 | 116.2 |
| 43 | 116.4 | 116.7 | 117.0 | 117.3 | 117.5 | 117.8 | 118.1 | 118.3 | 118.6 | 118.9 |
| 44 | 119.2 | 119.4 | 119.7 | 120.0 | 120.2 | 120.5 | 120.8 | 121.0 | 121.3 | 121.6 |
| 45 | 121.9 | 122.1 | 122.4 | 122.7 | 122.9 | 120.2 | 123.5 | 123.8 | 124.0 | 124.3 |
| 46 | 124.6 | 124.8 | 125.1 | 125.4 | 125.7 | 125.9 | 126.2 | 126.5 | 126.7 | 127.0 |
| 47 | 127.3 | 127.5 | 127.8 | 128.1 | 128.4 | 128.6 | 128.9 | 129.2 | 129.4 | 129.7 |
| 48 | 130.0 | 130.3 | 130.5 | 130.8 | 131.1 | 131.3 | 131.6 | 131.9 | 132.2 | 132.4 |
| 49 | 132.7 | 133.0 | 133.2 | 133.5 | 133.8 | 134.0 | 134.3 | 134.6 | 134.9 | 135.1 |
| 50 | 135.4 | 135.7 | 135.9 | 136.2 | 136.5 | 136.8 | 137.0 | 137.3 | 137.6 | 137.8 |

Prepared by multiplying the BAF 10 Plot Radius Factor 2.708 \* DBH. For example, if DBH = 14.3 inches, then 14.3 \* 2.708 = 38.

Table 74: BAF 20 Plot Radii in Feet and Tenths of Feet from Plot Center to Face of Tree at DBH for 0% Slope

| **Inches** | **0** | **0.1** | **0.2** | **0.3** | **0.4** | **0.5** | **0.6** | **0.7** | **0.8** | **0.9** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 5 | 9.5 | 9.7 | 9.9 | 10.1 | 10.3 | 10.5 | 10.7 | 10.8 | 11.0 | 11.2 |
| 6 | 11.4 | 11.6 | 11.8 | 12.0 | 12.2 | 12.4 | 12.6 | 12.8 | 12.9 | 13.1 |
| 7 | 13.3 | 13.5 | 13.7 | 13.9 | 14.1 | 14.3 | 14.5 | 14.7 | 14.8 | 15.0 |
| 8 | 15.2 | 15.4 | 15.6 | 15.8 | 16.0 | 16.2 | 16.4 | 16.6 | 16.8 | 16.9 |
| 9 | 17.1 | 17.3 | 17.5 | 17.7 | 17.9 | 18.1 | 18.3 | 18.5 | 18.6 | 18.8 |
| 10 | 19.0 | 19.2 | 19.4 | 19.6 | 19.8 | 20.0 | 20.2 | 20.4 | 20.6 | 20.7 |
| 11 | 20.9 | 21.1 | 21.3 | 21.5 | 21.7 | 21.9 | 22.1 | 22.3 | 22.5 | 22.6 |
| 12 | 22.8 | 23.0 | 23.2 | 23.4 | 23.6 | 23.8 | 24.0 | 24.2 | 24.4 | 24.5 |
| 13 | 24.7 | 24.9 | 25.1 | 25.3 | 25.5 | 25.7 | 25.9 | 26.1 | 26.3 | 26.5 |
| 14 | 26.6 | 26.8 | 27.0 | 27.2 | 27.4 | 27.6 | 27.8 | 28.0 | 28.2 | 28.4 |
| 15 | 28.5 | 28.7 | 28.9 | 29.1 | 29.3 | 29.5 | 29.7 | 29.9 | 30.1 | 30.3 |
| 16 | 30.4 | 30.6 | 30.8 | 31.0 | 31.2 | 31.4 | 31.6 | 31.8 | 32.0 | 32.2 |
| 17 | 32.4 | 32.5 | 32.7 | 32.9 | 33.1 | 33.3 | 33.5 | 33.7 | 33.9 | 34.1 |
| 18 | 34.3 | 34.4 | 34.6 | 34.8 | 35.0 | 35.2 | 35.4 | 35.6 | 35.8 | 36.0 |
| 19 | 36.2 | 36.3 | 36.5 | 36.7 | 36.9 | 37.1 | 37.3 | 37.5 | 37.7 | 37.9 |
| 20 | 38.1 | 38.3 | 38.4 | 38.6 | 38.8 | 39.0 | 39.2 | 39.4 | 39.6 | 39.8 |
| 21 | 40.0 | 40.2 | 40.3 | 40.5 | 40.7 | 40.9 | 41.1 | 41.3 | 41.5 | 41.7 |
| 22 | 41.9 | 42.1 | 42.2 | 42.4 | 42.6 | 42.8 | 43.0 | 43.2 | 43.4 | 43.6 |
| 23 | 43.8 | 44.0 | 44.1 | 44.3 | 44.5 | 44.7 | 44.9 | 45.1 | 45.3 | 45.5 |
| 24 | 45.7 | 45.9 | 46.1 | 46.2 | 46.4 | 46.6 | 46.8 | 47.0 | 47.2 | 47.4 |
| 25 | 47.6 | 47.8 | 48.0 | 48.1 | 48.3 | 48.5 | 48.7 | 48.9 | 49.1 | 49.3 |
| 26 | 49.5 | 49.7 | 49.9 | 50.0 | 50.2 | 50.4 | 50.6 | 50.8 | 51.0 | 51.2 |
| 27 | 51.4 | 51.6 | 51.8 | 52.0 | 52.1 | 52.3 | 52.5 | 52.7 | 52.9 | 53.1 |
| 28 | 53.3 | 53.5 | 53.7 | 53.9 | 54.0 | 54.2 | 54.4 | 54.6 | 54.8 | 55.0 |
| 29 | 55.2 | 55.4 | 55.6 | 55.8 | 55.9 | 56.1 | 56.3 | 56.5 | 56.7 | 56.9 |
| 30 | 57.1 | 57.3 | 57.5 | 57.7 | 57.9 | 58.0 | 58.2 | 58.4 | 58.6 | 58.8 |
| 31 | 59.0 | 59.2 | 59.4 | 59.6 | 59.8 | 59.9 | 60.1 | 60.3 | 60.5 | 60.7 |
| 32 | 60.9 | 61.1 | 61.3 | 61.5 | 61.7 | 61.8 | 62.0 | 62.2 | 62.4 | 62.6 |
| 33 | 62.8 | 63.0 | 63.2 | 63.4 | 63.6 | 63.8 | 63.9 | 64.1 | 64.3 | 64.5 |
| 34 | 64.7 | 64.9 | 65.1 | 65.3 | 65.5 | 65.7 | 65.8 | 6.0 | 66.2 | 66.4 |
| 35 | 66.6 | 66.8 | 67.0 | 67.2 | 67.4 | 67.6 | 67.7 | 67.9 | 68.1 | 68.3 |
| 36 | 68.5 | 68.7 | 68.9 | 69.1 | 69.3 | 69.5 | 69.6 | 69.8 | 70.0 | 70.2 |
| 37 | 70.4 | 70.6 | 70.8 | 71.0 | 71.2 | 71.4 | 71.6 | 71.7 | 71.9 | 72.1 |
| 38 | 72.3 | 72.5 | 72.7 | 72.9 | 73.1 | 73.3 | 73.5 | 73.6 | 73.8 | 74.0 |
| 39 | 74.2 | 74.4 | 74.6 | 74.8 | 75.0 | 75.2 | 75.4 | 75.5 | 75.7 | 75.9 |
| 40 | 76.1 | 76.3 | 76.5 | 76.7 | 76.9 | 77.1 | 77.3 | 77.5 | 77.6 | 77.8 |
| 41 | 78.0 | 78.2 | 78.4 | 78.6 | 78.8 | 79.0 | 79.2 | 79.4 | 79.5 | 79.7 |
| 42 | 79.9 | 80.1 | 80.3 | 80.5 | 80.7 | 80.9 | 81.1 | 81.3 | 81.4 | 81.6 |
| 43 | 81.8 | 82.0 | 82.2 | 82.4 | 82.6 | 82.8 | 83.0 | 83.2 | 83.4 | 83.5 |
| 44 | 83.7 | 83.9 | 84.1 | 84.3 | 84.5 | 84.7 | 84.9 | 85.1 | 85.3 | 85.4 |
| 45 | 85.6 | 85.8 | 86.0 | 86.2 | 86.4 | 86.6 | 86.8 | 87.0 | 87.2 | 87.3 |
| 46 | 87.5 | 87.7 | 87.9 | 88.1 | 88.3 | 88.5 | 88.7 | 88.9 | 89.1 | 89.3 |
| 47 | 89.4 | 89.6 | 89.8 | 90.0 | 90.2 | 90.4 | 90.6 | 90.8 | 91.0 | 91.2 |
| 48 | 91.3 | 91.5 | 91.7 | 91.9 | 92.1 | 92.3 | 92.5 | 92.7 | 92.9 | 93.1 |
| 49 | 93.2 | 93.4 | 93.6 | 93.8 | 94.0 | 94.2 | 94.4 | 94.6 | 94.8 | 95.0 |
| 50 | 95.2 | 95.3 | 95.5 | 95.7 | 95.9 | 96.1 | 96.3 | 96.5 | 96.7 | 96.9 |

Prepared by multiplying the BAF 20 Plot Radius Factor 1.902 \* DBH. For example, if DBH = 14.3 inches, then 14.3 \* 1.903 = 27.

Table 75: BAF 30 Plot Radii in Feet and Tenths of Feet from Plot Center to Face of Tree at DBH for 0% Slope

| **Inches** | **0** | **0.1** | **0.2** | **0.3** | **0.4** | **0.5** | **0.6** | **0.7** | **0.8** | **0.9** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 5 | 7.7 | 7.9 | 8.0 | 8.2 | 8.3 | 8.5 | 8.7 | 8.8 | 9.0 | 9.1 |
| 6 | 9.3 | 9.4 | 9.6 | 9.7 | 9.9 | 10.0 | 10.2 | 10.4 | 10.5 | 10.7 |
| 7 | 10.8 | 11.0 | 11.1 | 11.3 | 11.4 | 11.6 | 11.7 | 11.9 | 12.1 | 12.2 |
| 8 | 12.4 | 12.5 | 12.7 | 12.8 | 13.0 | 13.1 | 13.3 | 13.5 | 13.6 | 13.8 |
| 9 | 13.9 | 14.1 | 14.2 | 14.4 | 14.5 | 14.7 | 14.8 | 15.0 | 15.2 | 15.3 |
| 10 | 15.5 | 15.6 | 15.8 | 15.9 | 16.1 | 16.2 | 16.4 | 16.5 | 16.7 | 16.9 |
| 11 | 17.0 | 17.2 | 17.3 | 17.5 | 17.6 | 17.8 | 17.9 | 18.1 | 18.2 | 18.4 |
| 12 | 18.6 | 18.7 | 18.9 | 19.0 | 19.2 | 19.3 | 19.5 | 19.6 | 19.8 | 19.9 |
| 13 | 20.1 | 20.3 | 20.4 | 20.6 | 20.7 | 20.9 | 21.0 | 21.2 | 21.3 | 21.5 |
| 14 | 21.6 | 21.8 | 22.0 | 22.1 | 22.3 | 22.4 | 22.6 | 22.7 | 22.9 | 23.0 |
| 15 | 23.2 | 23.3 | 23.5 | 23.7 | 23.8 | 24.0 | 24.1 | 24.3 | 24.4 | 24.6 |
| 16 | 24.7 | 24.9 | 25.0 | 25.2 | 25.4 | 25.5 | 25.7 | 25.8 | 26.0 | 26.1 |
| 17 | 26.3 | 26.4 | 26.6 | 26.7 | 26.9 | 27.1 | 27.2 | 27.4 | 27.5 | 27.7 |
| 18 | 27.8 | 28.0 | 28.1 | 28.3 | 28.4 | 28.6 | 28.8 | 28.9 | 29.1 | 29.2 |
| 19 | 29.4 | 29.5 | 29.7 | 29.8 | 30.0 | 30.1 | 30.3 | 30.5 | 30.6 | 30.8 |
| 20 | 30.9 | 31.1 | 31.2 | 31.4 | 31.5 | 31.7 | 31.8 | 32.0 | 32.2 | 32.3 |
| 21 | 32.5 | 32.6 | 32.8 | 32.9 | 33.1 | 33.2 | 33.4 | 33.5 | 33.7 | 33.9 |
| 22 | 34.0 | 34.2 | 34.3 | 34.5 | 34.6 | 34.8 | 34.9 | 35.1 | 35.2 | 35.4 |
| 23 | 35.6 | 35.7 | 35.9 | 36.0 | 36.2 | 36.3 | 36.5 | 36.6 | 36.8 | 36.9 |
| 24 | 37.1 | 37.3 | 37.4 | 37.6 | 37.7 | 37.9 | 38.0 | 38.2 | 38.3 | 38.5 |
| 25 | 38.7 | 38.8 | 39.0 | 39.1 | 39.3 | 39.4 | 39.6 | 39.7 | 39.9 | 40.00 |
| 26 | 40.2 | 40.4 | 40.5 | 40.7 | 40.8 | 41.0 | 41.1 | 41.3 | 41.4 | 41.6 |
| 27 | 41.7 | 41.9 | 42.1 | 42.2 | 42.4 | 42.5 | 42.7 | 42.8 | 43.0 | 43.1 |
| 28 | 43.3 | 43.4 | 43.6 | 43.8 | 43.9 | 44.1 | 44.2 | 44.4 | 44.5 | 44.7 |
| 29 | 44.8 | 45.0 | 45.1 | 45.3 | 45.5 | 45.6 | 45.8 | 45.9 | 46.1 | 46.2 |
| 30 | 46.4 | 46.5 | 46.7 | 46.8 | 47.0 | 47.2 | 47.3 | 47.5 | 47.6 | 47.8 |
| 31 | 47.9 | 48.1 | 48.2 | 48.4 | 48.5 | 48.7 | 48.9 | 49.0 | 49.2 | 49.3 |
| 32 | 49.5 | 49.6 | 49.8 | 49.9 | 50.1 | 50.2 | 50.4 | 50.6 | 50.7 | 50.9 |
| 33 | 51.0 | 51.2 | 51.3 | 51.5 | 51.6 | 51.8 | 51.9 | 52.1 | 52.3 | 52.4 |
| 34 | 52.6 | 52.7 | 52.9 | 53.0 | 53.2 | 53.3 | 53.5 | 53.6 | 53.8 | 54.0 |
| 35 | 54.1 | 54.3 | 54.4 | 54.6 | 54.7 | 54.9 | 55.0 | 55.2 | 55.3 | 55.5 |
| 36 | 55.7 | 55.8 | 56.0 | 56.1 | 56.3 | 56.4 | 56.6 | 56.7 | 56.9 | 57.0 |
| 37 | 57.2 | 57.4 | 57.5 | 57.7 | 57.8 | 58.0 | 58.1 | 58.3 | 58.4 | 58.6 |
| 38 | 58.7 | 58.9 | 59.1 | 59.2 | 59.4 | 59.5 | 59.7 | 59.8 | 60.0 | 60.1 |
| 39 | 60.3 | 60.4 | 60.6 | 60.8 | 60.9 | 61.1 | 61.2 | 61.4 | 61.5 | 61.7 |
| 40 | 61.8 | 62.0 | 62.1 | 62.3 | 62.5 | 62.6 | 62.8 | 62.9 | 63.1 | 63.2 |
| 41 | 63.4 | 63.5 | 63.7 | 63.8 | 64.0 | 64.2 | 64.3 | 64.5 | 64.3 | 64.8 |
| 42 | 64.9 | 65.1 | 65.2 | 65.4 | 65.6 | 65.7 | 65.9 | 66.0 | 66.2 | 66.3 |
| 43 | 66.5 | 66.6 | 66.8 | 66.9 | 67.1 | 67.3 | 67.4 | 67.6 | 67.7 | 67.9 |
| 44 | 68.0 | 68.2 | 68.3 | 68.5 | 68.6 | 68.8 | 69.0 | 69.1 | 69.3 | 69.4 |
| 45 | 69.6 | 69.7 | 69.9 | 70.0 | 70.2 | 70.3 | 70.5 | 70.7 | 70.8 | 71.0 |
| 46 | 71.1 | 71.3 | 71.4 | 71.6 | 71.7 | 71.9 | 72.0 | 72.2 | 72.4 | 72.5 |
| 47 | 72.7 | 72.8 | 73.0 | 73.1 | 73.3 | 73.4 | 73.6 | 73.7 | 73.9 | 74.1 |
| 48 | 74.2 | 74.4 | 74.5 | 74.7 | 74.8 | 75.0 | 75.1 | 75.3 | 75.4 | 75.6 |
| 49 | 75.8 | 75.9 | 76.1 | 76.2 | 76.4 | 76.5 | 76.7 | 76.8 | 77.0 | 77.1 |
| 50 | 77.3 | 77.5 | 77.6 | 77.8 | 77.9 | 78.1 | 78.2 | 78.4 | 78.5 | 78.7 |

Prepared by multiplying the BAF 30 Plot Radius Factor 1.546 \* DBH. For example, if DBH = 14.3 inches, then 14.3 \* 1.546 = 22.

Table 76: BAF 40 Plot Radii in Feet and Tenths of Feet from Plot Center to Face of Tree at DBH for 0% Slope

| **Inches** | **0** | **0.1** | **0.2** | **0.3** | **0.4** | **0.5** | **0.6** | **0.7** | **0.8** | **0.9** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 5 | 6.7 | 6.8 | 6.9 | 7.1 | 7.2 | 7.3 | 7.5 | 7.6 | 7.7 | 7.9 |
| 6 | 8.0 | 8.1 | 8.3 | 8.4 | 8.5 | 8.7 | 8.8 | 8.9 | 9.1 | 9.2 |
| 7 | 9.3 | 9.5 | 9.6 | 9.7 | 9.9 | 10.0 | 10.1 | 10.3 | 10.4 | 10.5 |
| 8 | 10.7 | 10.8 | 10.9 | 11.1 | 11.2 | 11.3 | 11.5 | 11.6 | 11.7 | 11.9 |
| 9 | 12.0 | 12.1 | 12.3 | 12.4 | 12.5 | 12.7 | 12.8 | 12.9 | 13.1 | 13.2 |
| 10 | 13.3 | 13.5 | 13.6 | 13.7 | 13.9 | 14.0 | 14.1 | 14.3 | 14.4 | 14.5 |
| 11 | 14.7 | 14.8 | 14.9 | 15.1 | 15.2 | 15.3 | 15.5 | 15.6 | 15.7 | 15.9 |
| 12 | 16.0 | 16.1 | 16.3 | 16.4 | 16.5 | 16.7 | 16.8 | 16.9 | 17.1 | 17.2 |
| 13 | 17.3 | 17.5 | 17.6 | 17.7 | 17.9 | 18.0 | 18.1 | 18.3 | 18.4 | 18.5 |
| 14 | 18.7 | 18.8 | 18.9 | 19.1 | 19.2 | 19.3 | 19.5 | 19.6 | 19.7 | 19.9 |
| 15 | 20.0 | 20.1 | 20.3 | 20.4 | 20.5 | 20.7 | 20.8 | 20.9 | 21.1 | 21.2 |
| 16 | 21.3 | 21.5 | 21.6 | 21.7 | 21.9 | 22.0 | 22.1 | 22.3 | 22.4 | 22.5 |
| 17 | 22.7 | 22.8 | 22.9 | 23.1 | 23.2 | 23.3 | 23.5 | 23.6 | 23.7 | 23.9 |
| 18 | 24.0 | 24.1 | 24.3 | 24.4 | 24.5 | 24.7 | 24.8 | 24.9 | 25.1 | 25.2 |
| 19 | 25.3 | 25.5 | 25.6 | 25.7 | 25.9 | 26.0 | 26.1 | 26.3 | 26.4 | 26.5 |
| 20 | 26.7 | 26.8 | 26.9 | 27.1 | 27.2 | 27.3 | 27.5 | 27.6 | 27.7 | 27.9 |
| 21 | 28.0 | 28.1 | 28.3 | 28.4 | 28.5 | 28.7 | 28.8 | 28.9 | 29.1 | 29.2 |
| 22 | 29.3 | 29.5 | 29.6 | 29.7 | 29.9 | 30.0 | 30.1 | 30.3 | 30.4 | 30.5 |
| 23 | 30.7 | 30.8 | 30.9 | 31.1 | 31.2 | 31.3 | 31.5 | 31.6 | 31.7 | 31.9 |
| 24 | 32.0 | 32.1 | 32.3 | 32.4 | 32.5 | 32.7 | 32.8 | 32.9 | 33.1 | 33.2 |
| 25 | 33.3 | 33.5 | 33.6 | 33.7 | 33.9 | 34.0 | 34.1 | 34.3 | 34.4 | 34.5 |
| 26 | 34.7 | 34.8 | 34.9 | 35.1 | 35.2 | 35.3 | 35.5 | 35.6 | 35.7 | 35.9 |
| 27 | 36.0 | 36.1 | 36.3 | 36.4 | 36.5 | 36.7 | 36.8 | 36.9 | 37.1 | 37.2 |
| 28 | 37.3 | 37.5 | 37.6 | 37.7 | 37.9 | 38.0 | 38.1 | 38.3 | 38.4 | 38.5 |
| 29 | 38.7 | 34.8 | 34.9 | 35.1 | 35.2 | 35.3 | 35.5 | 35.6 | 35.7 | 35.9 |
| 30 | 40.0 | 40.1 | 40.3 | 40.4 | 40.5 | 40.7 | 40.8 | 40.9 | 41.1 | 41.2 |
| 31 | 41.3 | 41.5 | 41.6 | 41.7 | 41.9 | 42.0 | 42.1 | 42.3 | 42.4 | 42.5 |
| 32 | 42.7 | 42.8 | 42.9 | 43.1 | 43.2 | 43.3 | 43.5 | 43.6 | 43.7 | 43.9 |
| 33 | 44.0 | 44.1 | 44.3 | 44.4 | 44.5 | 44.7 | 44.8 | 44.9 | 45.1 | 45.2 |
| 34 | 45.3 | 45.5 | 45.6 | 45.7 | 45.9 | 46.0 | 46.1 | 46.3 | 46.4 | 46.5 |
| 35 | 46.7 | 46.8 | 46.9 | 47.1 | 47.2 | 47.3 | 47.5 | 47.6 | 47.7 | 47.9 |
| 36 | 48.0 | 48.1 | 48.2 | 48.4 | 48.5 | 48.7 | 48. | 48.9 | 49.1 | 49.2 |
| 37 | 49.3 | 49.5 | 49.6 | 49.7 | 49.9 | 50.0 | 50.1 | 50.3 | 50.4 | 50.5 |
| 38 | 50.7 | 50.8 | 50.9 | 51.1 | 51.2 | 51.3 | 51.5 | 51.6 | 51.7 | 51.9 |
| 39 | 52.0 | 52.1 | 52.2 | 52.4 | 52.5 | 52.7 | 52.8 | 52.9 | 53.1 | 53.2 |
| 40 | 53.3 | 53.5 | 53.6 | 53.7 | 53.9 | 54.0 | 54.1 | 54.3 | 54.4 | 54.5 |
| 41 | 54.7 | 54.8 | 54.9 | 55.1 | 55.2 | 55.3 | 55.5 | 55.6 | 55.7 | 55.9 |
| 42 | 56.0 | 56.1 | 56.2 | 56.4 | 56.5 | 56.7 | 56.8 | 56.9 | 57.1 | 57.2 |
| 43 | 57.3 | 57.5 | 57.6 | 57.7 | 57.9 | 58.0 | 58.1 | 58.3 | 58.4 | 58.5 |
| 44 | 58.7 | 58.8 | 58.9 | 59.1 | 59.2 | 59.3 | 59.5 | 59.6 | 59.7 | 59.9 |
| 45 | 60.0 | 60.1 | 60.2 | 60.4 | 60.5 | 60.7 | 60.8 | 60.9 | 61.1 | 61.2 |
| 46 | 61.3 | 61.5 | 61.6 | 61.7 | 61.9 | 62.0 | 62.1 | 62.3 | 62.4 | 62.5 |
| 47 | 62.7 | 62.8 | 62.9 | 63.1 | 63.2 | 63.3 | 63.5 | 63.6 | 63.7 | 63.9 |
| 48 | 64.0 | 64.1 | 64.2 | 64.4 | 64.5 | 64.7 | 64.8 | 64.9 | 65.1 | 65.2 |
| 49 | 65.3 | 65.5 | 65.6 | 65.7 | 65.9 | 66.0 | 66.1 | 66.3 | 66.4 | 66.5 |
| 50 | 66.7 | 66.8 | 66.9 | 67.0 | 67.2 | 67.3 | 67.4 | 67.6 | 67.7 | 67.8 |

Prepared by multiplying the BAF 40 Plot Radius Factor 1.333 \* DBH. For example, if DBH = 14.3 inches, then 14.3 \* 1.333 = 19.1 feet.

Table 77: BAF 60 Plot Radii in Feet and Tenths of Feet from Plot Center to Face of Tree at DBH for 0% Slope

| **Inches** | **0** | **0.1** | **0.2** | **0.3** | **0.4** | **0.5** | **0.6** | **0.7** | **0.8** | **0.9** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 5 | 5.4 | 5.5 | 5.6 | 5.7 | 5.8 | 5.9 | 6.1 | 6.2 | 6.3 | 6.4 |
| 6 | 6.5 | 6.6 | 6.7 | 6.8 | 6.9 | 7.0 | 7.1 | 7.2 | 7.4 | 7.5 |
| 7 | 7.6 | 7.7 | 7.8 | 7.9 | 8.0 | 8.1 | 8.2 | 8.3 | 8.4 | 8.5 |
| 8 | 8.6 | 8.8 | 8.9 | 9.0 | 9.1 | 9.2 | 9.3 | 9.4 | 9.5 | 9.6 |
| 9 | 9.7 | 9.8 | 9.9 | 10.1 | 10.2 | 10.3 | 10.4 | 10.5 | 10.6 | 10.7 |
| 10 | 10.8 | 10.9 | 11.0 | 11.1 | 11.2 | 11.4 | 11.5 | 11.6 | 11.7 | 11.8 |
| 11 | 11.9 | 12.0 | 12.1 | 12.2 | 12.3 | 12.4 | 12.5 | 12.6 | 12.8 | 12.9 |
| 12 | 13.0 | 13.1 | 13.2 | 13.3 | 13.4 | 13.5 | 13.6 | 13.7 | 13.8 | 13.9 |
| 13 | 14.1 | 14.2 | 14.3 | 14.4 | 14.5 | 14.6 | 14.7 | 14.8 | 14.9 | 15.0 |
| 14 | 15.1 | 15.2 | 15.4 | 15.5 | 15.6 | 15.7 | 15.8 | 15.9 | 16.0 | 16.1 |
| 15 | 16.2 | 16.3 | 16.4 | 16.5 | 16.6 | 16.7 | 16.9 | 17.0 | 17.1 | 17.2 |
| 16 | 17.3 | 17.4 | 17.5 | 17.6 | 17.7 | 17.8 | 17.9 | 18.1 | 18.2 | 18.3 |
| 17 | 18.4 | 18.5 | 18.6 | 18.7 | 18.8 | 18.9 | 19.0 | 19.1 | 19.2 | 19.3 |
| 18 | 19.5 | 19.6 | 19.7 | 19.8 | 19.9 | 20.0 | 20.1 | 20.2 | 20.3 | 20.4 |
| 19 | 20.5 | 20.6 | 20.8 | 20.9 | 21.0 | 21.1 | 21.2 | 21.3 | 21.4 | 21.5 |
| 20 | 21.6 | 21.7 | 21.8 | 21.9 | 22.1 | 22.2 | 22.3 | 22.4 | 22.5 | 22.6 |
| 21 | 22.7 | 22.8 | 22.9 | 23.0 | 23.1 | 23.2 | 23.3 | 23.5 | 23.6 | 23.7 |
| 22 | 23.8 | 23.9 | 24.0 | 24.1 | 24.2 | 24.3 | 24.4 | 24.5 | 24.6 | 24.8 |
| 23 | 24.9 | 25.0 | 25.1 | 25.2 | 25.3 | 25.4 | 25.5 | 25.6 | 25.7 | 25.8 |
| 24 | 25.9 | 26.1 | 26.2 | 26.3 | 26.4 | 26.5 | 26.6 | 26.7 | 26.8 | 26.9 |
| 25 | 27.0 | 27.1 | 27.2 | 27.3 | 27.5 | 27.6 | 27.7 | 27.8 | 27.9 | 28.0 |
| 26 | 28.1 | 28.2 | 28.3 | 28.4 | 28.5 | 28.6 | 28.8 | 28.9 | 29.0 | 29.1 |
| 27 | 29.2 | 29.3 | 29.4 | 29.5 | 29.6 | 29.7 | 29.8 | 29.9 | 30.1 | 30.2 |
| 28 | 30.3 | 30.4 | 30.5 | 30.6 | 30.7 | 30.8 | 30.9 | 31.0 | 31.1 | 31.2 |
| 29 | 31.3 | 31.5 | 31.6 | 31.7 | 31.8 | 31.9 | 32.0 | 32.1 | 32.2 | 32.3 |
| 30 | 32.4 | 32.5 | 32.6 | 32.8 | 32.9 | 33.0 | 33.1 | 33.2 | 33.3 | 33.4 |
| 31 | 33.5 | 33.6 | 33.7 | 33.8 | 33.9 | 34.1 | 34.2 | 34.3 | 34.4 | 34.5 |
| 32 | 35.7 | 35.8 | 35.9 | 36.0 | 36.1 | 36.2 | 36.3 | 36.4 | 36.5 | 36.6 |
| 33 | 35.7 | 35.8 | 35.9 | 36.0 | 36.1 | 36.2 | 36.3 | 36.4 | 36.5 | 36.6 |
| 34 | 36.8 | 36.9 | 37.0 | 37.1 | 37.2 | 37.3 | 37.4 | 37.5 | 37.6 | 37.7 |
| 35 | 37.8 | 37.9 | 38.1 | 38.2 | 38.3 | 38.4 | 38.5 | 38.6 | 38.7 | 38.8 |
| 36 | 38.9 | 39.0 | 39.1 | 39.2 | 39.3 | 39.5 | 39.6 | 39.7 | 39.8 | 39.9 |
| 37 | 40.0 | 40.1 | 40.2 | 40.3 | 40.4 | 40.5 | 40.6 | 40.8 | 40.9 | 41.0 |
| 38 | 41.1 | 41.2 | 41.3 | 41.4 | 41.5 | 41.6 | 41.7 | 41.8 | 41.9 | 42.1 |
| 39 | 42.2 | 42.3 | 42.4 | 42.5 | 42.6 | 42.7 | 42.8 | 42.9 | 43.0 | 43.1 |
| 40 | 43.2 | 43.3 | 43.5 | 43.6 | 43.7 | 43.8 | 43.9 | 44.0 | 44.1 | 44.2 |
| 41 | 44.3 | 44.4 | 44.5 | 44.6 | 44.8 | 44.9 | 45.0 | 45.1 | 45.2 | 45.3 |
| 42 | 45.4 | 45.5 | 45.6 | 45.7 | 45.8 | 45.9 | 46.1 | 46.2 | 46.3 | 46.4 |
| 43 | 46.5 | 46.6 | 46.7 | 46.8 | 46.9 | 47.0 | 47.1 | 47.2 | 47.3 | 47.5 |
| 44 | 47.6 | 47.7 | 47.8 | 47.9 | 48.0 | 48.1 | 48.2 | 48.3 | 48.4 | 48.5 |
| 45 | 48.6 | 48.8 | 48.9 | 49.0 | 49.1 | 49.2 | 49.3 | 49.4 | 49.5 | 49.6 |
| 46 | 49.7 | 49.8 | 49.9 | 50.1 | 50.2 | 50.3 | 50.4 | 50.5 | 50.6 | 50.7 |
| 47 | 50.8 | 50.9 | 51.0 | 51.1 | 51.2 | 51.3 | 51.5 | 51.6 | 51.7 | 51.8 |
| 48 | 51.9 | 52.0 | 52.1 | 52.2 | 52.3 | 52.4 | 52.5 | 52.6 | 52.8 | 52.9 |
| 49 | 53.0 | 53.1 | 53.2 | 53.3 | 53.4 | 53.5 | 53.6 | 53.7 | 53.8 | 53.9 |
| 50 | 54.1 | 54.2 | 54.3 | 54.4 | 54.5 | 54.6 | 54.7 | 54.8 | 54.9 | 55.0 |

Prepared by multiplying the BAF 60 Plot Radius Factor 1.081 \* DBH. For example, if DBH = 14.3 inches, then 14.3 \* 10.81 = 15.5 feet.

Table 78: Limiting Distances to Face of Tree and Slope Correction Factors for Various Basal Area Factors

This table provides an expanded list of slope correction factors to the face of the tree for use with various basal area factors. To use the table, measure the slope and distance from plot-center to the face of the tree at DBH. To obtain the corrected limiting distance to a tree, multiply the tree’s DBH by the “combined factor” shown under the appropriate BAF heading.

| **Slope** | **Factor** | **5 BAF** | **10 BAF** | **15 BAF** | **20 BAF** | **30 BF** | **40 BAF** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | 1.00000 | 3.847 | 2.708 | 2.203 | 1.902 | 1.546 | 1.333 |
| 2 | 1.00020 | 3.848 | 2.709 | 2.203 | 1.902 | 1.546 | 1.333 |
| 3 | 1.00045 | 3.489 | 2.709 | 2.204 | 1.903 | 1.547 | 1.334 |
| 4 | 1.00080 | 3.850 | 2.710 | 2.205 | 1.904 | 1.547 | 1.334 |
| 5 | 1.00125 | 3.852 | 2.711 | 2.206 | 1.904 | 1.548 | 1.335 |
| 6 | 1.00180 | 3.854 | 2.713 | 2.207 | 1.905 | 1.549 | 1.335 |
| 7 | 1.00245 | 2.856 | 2.715 | 2.208 | 1.907 | 1.550 | 1.336 |
| 8 | 1.00319 | 3.859 | 2.717 | 2.210 | 1.908 | 1.551 | 1.337 |
| 9 | 1.00404 | 3.863 | 2.719 | 2.212 | 1.910 | 1.552 | 1.338 |
| 10 | 1.00499 | 3.866 | 2.722 | 2.214 | 1.911 | 1.554 | 1.340 |
| 11 | 1.00603 | 3.870 | 2.724 | 2.216 | 1.912 | 1.555 | 1.341 |
| 12 | 1.00717 | 3.875 | 2.727 | 2.219 | 1.916 | 1.557 | 1.341 |
| 13 | 1.00841 | 3.879 | 2.731 | 2.222 | 1.918 | 1.559 | 1.344 |
| 14 | 1.00975 | 3.884 | 2.734 | 2.224 | 1.921 | 1.567 | 1.346 |
| 15 | 1.01119 | 3.890 | 2.738 | 2.228 | 1.923 | 1.563 | 1/348 |
| 16 | 1.01272 | 3.896 | 2.742 | 2.231 | 1.926 | 1.566 | 1.350 |
| 17 | 1.01435 | 3.902 | 2.747 | 2.235 | 1.921 | 1.568 | 1.352 |
| 18 | 1.01607 | 3.909 | 2.752 | 2.238 | 1.933 | 1.571 | 1.354 |
| 19 | 1.01789 | 3.916 | 2.756 | 2.245 | 1.936 | 1.574 | 1.357 |
| 20 | 1.01980 | 3.923 | 2.762 | 2.245 | 1.940 | 1.577 | 1.359 |
| 21 | 1.02181 | 3.931 | 2.767 | 2.251 | 1.943 | 1.580 | 1.362 |
| 22 | 1.02391 | 3.939 | 2.773 | 2.256 | 1.947 | 1.583 | 1.365 |
| 23 | 1.02611 | 3.947 | 2.779 | 2.261 | 1.952 | 1.586 | 1.368 |
| 24 | 1.02840 | 3.956 | 2.785 | 2.266 | 1.956 | 1.590 | 1.371 |
| 25 | 1.03078 | 3.965 | 2.791 | 2.271 | 1.967 | 1.594 | 1.374 |
| 26 | 1.03325 | 3.975 | 2.798 | 2.276 | 1.965 | 1.597 | 1.377 |
| 27 | 1.03581 | 3.985 | 2.805 | 2.282 | 1.970 | 1.601 | 1.381 |
| 28 | 1.03846 | 3.995 | 2.812 | 2.288 | 1.975 | 1.605 | 1.384 |
| 29 | 1.04120 | 4.005 | 2.820 | 2.294 | 1.980 | 1.610 | 1.388 |
| 30 | 1.04403 | 4.016 | 2.827 | 2.300 | 1.986 | 1.614 | 1.392 |
| 31 | 1.04695 | 4.028 | 2.835 | 2.306 | 1.991 | 1.619 | 1.396 |
| 32 | 1.04995 | 4.039 | 2.843 | 2.313 | 1.997 | 1.623 | 1.400 |
| 33 | 1.05304 | 4.051 | 2.852 | 2.320 | 2.003 | 1.628 | 1.404 |
| 34 | 1.05622 | 4.063 | 2.960 | 2.327 | 2.009 | 1.633 | 1.408 |
| 35 | 1.05948 | 4.076 | 2.869 | 2.334 | 2.015 | 1.638 | 1.412 |
| 36 | 1.06283 | 4.089 | 2.878 | 2.341 | 2.022 | 1.643 | 1.417 |
| 37 | 1.06626 | 4.102 | 2.887 | 2.349 | 2.028 | 1.648 | 4.421 |
| 38 | 1.06977 | 4.115 | 2.897 | 2.357 | 2.035 | 1.654 | 1.426 |
| 39 | 1.07336 | 4.129 | 2.907 | 2.365 | 2.042 | 1.659 | 1.431 |
| 40 | 1.07703 | 4.143 | 2.917 | 2.373 | 2.049 | 1.665 | 1.436 |
| 41 | 1.08079 | 4.158 | 2.927 | 2.381 | 2.056 | 1.671 | 1.441 |
| 42 | 1.08462 | 4.173 | 2.937 | 2.389 | 2.063 | 1.677 | 1.446 |
| 43 | 1.08853 | 4.188 | 2.948 | 2.398 | 2.070 | 1.683 | 1.451 |
| 44 | 1.09252 | 4.203 | 2.959 | 2.407 | 2.078 | 1.689 | 1.456 |
| 45 | 1.09659 | 4.219 | 2.970 | 2.416 | 2.086 | 1.695 | 1.462 |
| 46 | 1.10073 | 4.235 | 2.981 | 2.425 | 2.094 | 1.702 | 1.467 |
| 47 | 1.10494 | 4.251 | 2.992 | 2.434 | 2.102 | 1.708 | 1.473 |
| 48 | 1.10923 | 4.267 | 3.004 | 2.444 | 2.110 | 1.715 | 1.479 |
| 49 | 1.11360 | 4.284 | 3.016 | 2.453 | 2.118 | 1.723 | 1.484 |
| 50 | 1.11803 | 4.301 | 3.028 | 2.463 | 2.126 | 1.728 | 1.490 |
| 51 | 1.12254 | 4.318 | 3.040 | 2.473 | 2135 | 1.735 | 1.496 |
| 52 | 1.12712 | 4.336 | 3.052 | 2.483 | 2.144 | 1.743 | 1.502 |
| 53 | 1.13177 | 4.354 | 3.065 | 2.493 | 2.153 | 1.750 | 1.509 |
| 54 | 1.13649 | 4.372 | 3.078 | 2.504 | 2.162 | 1.757 | 1.515 |
| 55 | 1.14127 | 4.390 | 3.091 | 2.514 | 2.171 | 1.764 | 1.521 |
| 56 | 1.14612 | 4.409 | 3.104 | 2.525 | 2.180 | 1.772 | 1.528 |
| 57 | 1.15104 | 4.428 | 3.117 | 2.536 | 2.189 | 1.780 | 1.534 |
| 58 | 1.15603 | 4.447 | 3.131 | 2.547 | 2.199 | 1.788 | 1.541 |
| 59 | 1.16108 | 4.467 | 3.144 | 2.558 | 2.208 | 1.795 | 1.548 |
| 60 | 1.16619 | 4.486 | 3.158 | 2.569 | 2.218 | 1.803 | 1.555 |
| 61 | 1.17137 | 4.506 | 3.172 | 2.581 | 2.228 | 1.811 | 1.561 |
| 62 | 1.17661 | 4.526 | 3.186 | 2.592 | 2.238 | 1.819 | 1.568 |
| 63 | 1.18191 | 4.547 | 3.201 | 2.604 | 2.248 | 1.827 | 1.575 |
| 64 | 1.18727 | 4.567 | 3.215 | 2.616 | 2.258 | 1.836 | 1.583 |
| 65 | 1.19269 | 4.588 | 3.230 | 2.627 | 2.268 | 1.844 | 1.590 |
| 66 | 1.19817 | 4.609 | 3.245 | 2.640 | 2.279 | 1.852 | 1.597 |
| 67 | 1.20370 | 4.631 | 3.260 | 2.652 | 2.289 | 1.861 | 1.605 |
| 68 | 1.20930 | 4.652 | 3.275 | 2.664 | 2.300 | 1.870 | 1.612 |
| 69 | 1.21949 | 4.691 | 3.302 | 2.687 | 2.319 | 1.885 | 1.626 |
| 70 | 1.22066 | 4.696 | 3.306 | 2.689 | 2.322 | 1.887 | 1.627 |
| 71 | 1.22642 | 4.718 | 3.321 | 2.702 | 2.333 | 1.896 | 1.635 |
| 72 | 1.23223 | 4.740 | 3.337 | 2.715 | 2.344 | 1.905 | 1.643 |
| 73 | 1.23810 | 4.763 | 3.353 | 2.728 | 2.355 | 1.914 | 1.650 |
| 74 | 1.24403 | 4.786 | 3.369 | 2.741 | 2.366 | 1.923 | 1.658 |
| 75 | 1.25000 | 4.809 | 3.385 | 2.754 | 2.378 | 1.933 | 1.666 |
| 76 | 1.25603 | 4.832 | 3.401 | 2.767 | 2.389 | 1.942 | 1.674 |
| 77 | 1.26210 | 4.855 | 3.418 | 2.780 | 2.401 | 1.951 | 1.682 |
| 78 | 1.26823 | 4.879 | 3.434 | 2.794 | 2.412 | 1.961 | 1.691 |
| 79 | 1.27440 | 4.903 | 3.451 | 2.808 | 2.424 | 1.970 | 1.699 |
| 80 | 1.28062 | 4.927 | 3.468 | 2.821 | 2.436 | 1.980 | 1.707 |
| 81 | 1.28690 | 4.951 | 3.485 | 2.835 | 2.448 | 1.990 | 1.715 |
| 82 | 1.29321 | 4.975 | 3.502 | 2.849 | 2.460 | 1.999 | 1.724 |
| 83 | 1.29958 | 4.999 | 3.519 | 2.863 | 2.472 | 2.009 | 1.732 |
| 84 | 1.30599 | 5.024 | 3.537 | 2.877 | 2.484 | 2.019 | 1.741 |
| 85 | 1.31244 | 5.049 | 3.554 | 2.891 | 2.496 | 2.029 | 1.749 |
| 86 | 1.31894 | 5.074 | 3.572 | 2.906 | 2.509 | 2.039 | 1.758 |
| 87 | 1.32548 | 5.099 | 3.589 | 2.920 | 2.521 | 2.049 | 1.767 |
| 88 | 1.33207 | 5.124 | 3.607 | 2.935 | 2.534 | 2.059 | 1.776 |
| 89 | 1.33870 | 5.150 | 3.625 | 2.949 | 2.546 | 2.070 | 1.784 |
| 90 | 1.34536 | 5.176 | 3.643 | 2.964 | 2.559 | 2.080 | 1.793 |
| 91 | 1.35207 | 5.201 | 3.661 | 2.979 | 2.572 | 2.090 | 1.802 |
| 92 | 1.35882 | 5.227 | 3.680 | 2.993 | 2.584 | 2.101 | 1.811 |
| 93 | 1.36561 | 5.254 | 3.698 | 3.008 | 2.597 | 2.111 | 1.820 |
| 94 | 1.37244 | 5.280 | 3.717 | 3.023 | 2.610 | 2.122 | 1.829 |
| 95 | 1.37931 | 5.306 | 3.735 | 3.039 | 2.623 | 2.132 | 1.839 |
| 96 | 1.38622 | 5.333 | 3.754 | 3.054 | 2.637 | 2.143 | 1.848 |
| 97 | 1.39316 | 5.359 | 3.773 | 3.069 | 2.650 | 2.154 | 1.875 |
| 98 | 1.40014 | 5.386 | 3.792 | 3.085 | 2.663 | 2.165 | 1.866 |
| 99 | 1.40716 | 5.413 | 3.811 | 3.100 | 2.676 | 2.175 | 1.876 |
| 100 | 1.41421 | 5.440 | 3.830 | 3.116 | 2.690 | 2.186 | 1.885 |
| 102 | 1.42843 | 5.495 | 3.868 | 3.147 | 2.717 | 2.208 | 1.904 |
| 103 | 1.43558 | 5.523 | 3.888 | 3.163 | 5.730 | 2.219 | 1.914 |
| 104 | 1.44278 | 5.550 | 3.907 | 3.178 | 2.744 | 2.231 | 1.923 |
| 105 | 1.45000 | 5.578 | 3.927 | 3.194 | 2.758 | 2.242 | 1.933 |
| 106 | 1.45726 | 5.606 | 3.946 | 3.210 | 2.772 | 2.253 | 1.943 |
| 107 | 1.46455 | 5.634 | 3.966 | 3.226 | 2.876 | 2.264 | 1.952 |
| 108 | 1.47187 | 5.662 | 3.986 | 3.243 | 2.799 | 2.276 | 1.962 |
| 109 | 1.47922 | 5.691 | 4.006 | 3.259 | 2.813 | 2.287 | 1.972 |
| 110 | 1.48661 | 5.719 | 4.026 | 3.275 | 2.828 | 2.298 | 1.982 |
| 111 | 1.49402 | 5.747 | 4.046 | 3.291 | 2.842 | 2.310 | 1.992 |
| 112 | 1.50147 | 5.776 | 4.066 | 3.308 | 2.856 | 2.321 | 2.001 |
| 113 | 1.50894 | 5.805 | 4.086 | 3.324 | 2.870 | 2.333 | 2.011 |
| 114 | 1.51644 | 5.834 | 4.107 | 3.341 | 2.884 | 2.344 | 2.021 |
| 115 | 1.52498 | 5.863 | 4.127 | 3.357 | 2.899 | 2.356 | 2.031 |
| 116 | 1.53154 | 5.892 | 4.147 | 3.374 | 2.913 | 2.368 | 2.042 |
| 117 | 1.53912 | 5.921 | 4.168 | 3.391 | 2.927 | 2.379 | 2.052 |
| 118 | 1.54674 | 5.950 | 4.189 | 3.407 | 2.942 | 2.391 | 2.062 |
| 119 | 1.55438 | 5.980 | 4.209 | 3.424 | 2.956 | 2.403 | 2.072 |
| 120 | 1.56205 | 6.000 | 4.230 | 3.441 | 2.971 | 2.415 | 2.082 |
| 121 | 1.56975 | 6.039 | 4.251 | 3.458 | 2.985 | 2.427 | 2.092 |
| 122 | 1.57747 | 6.069 | 4.272 | 3.475 | 3.000 | 2.439 | 2.103 |
| 123 | 1.58521 | 6.098 | 4.293 | 3.492 | 3.015 | 2.451 | 2.113 |
| 124 | 1.59298 | 6.128 | 4.314 | 3.509 | 3.030 | 2.463 | 2.123 |
| 125 | 1.60078 | 6.158 | 4.335 | 3.527 | 3.045 | 2.475 | 2.134 |
| 126 | 1.60860 | 6.188 | 4.356 | 3.544 | 3.060 | 2.487 | 2.144 |
| 127 | 1.61645 | 6.218 | 4.377 | 3.561 | 3.074 | 2.499 | 2.155 |
| 128 | 1.62432 | 6.249 | 4.399 | 3.578 | 3.089 | 2.511 | 2.165 |
| 129 | 1.63221 | 6.279 | 4.420 | 3.595 | 3.104 | 2.523 | 2.176 |
| 130 | 1.64012 | 6.310 | 4.441 | 3.613 | 3.120 | 2.536 | 2/186 |
| 131 | 1.64806 | 6.340 | 4.463 | 3.631 | 3.135 | 2.546 | 2.197 |
| 132 | 1.65602 | 6.370 | 4.485 | 3.648 | 3.150 | 2.560 | 2.207 |
| 133 | 1.66400 | 6.401 | 4.506 | 3.666 | 3.165 | 2.573 | 2.218 |
| 134 | 1.67200 | 6.432 | 4.528 | 3.683 | 3.180 | 2.585 | 2.229 |
| 135 | 1.68003 | 6.463 | 4.550 | 3.701 | 3.195 | 2.597 | 2.239 |
| 136 | 1.68808 | 6.494 | 4.571 | 3.719 | 3.211 | 2.261 | 2.250 |
| 137 | 1.69614 | 6.525 | 4.593 | 3.737 | 3.226 | 2.622 | 2.261 |
| 138 | 1.70423 | 6.556 | 4.615 | 3.754 | 3.241 | 2.635 | 2.272 |
| 139 | 1.71234 | 6.587 | 4.637 | 3.772 | 3.257 | 2.647 | 2.283 |
| 140 | 1.72047 | 6.619 | 4.659 | 3.790 | 3.272 | 2.660 | 2.293 |
| 141 | 1.72861 | 6.650 | 4.681 | 3.808 | 3.288 | 2.672 | 2.304 |
| 142 | 1.73678 | 6.681 | 4.703 | 3.826 | 3.303 | 2.685 | 2.315 |
| 143 | 1.74497 | 6.713 | 4.725 | 3.844 | 3.319 | 2.698 | 2.326 |
| 144 | 1.75317 | 6.744 | 4.748 | 3.862 | 3.335 | 2.710 | 2.337 |
| 145 | 1.76139 | 6.776 | 4.770 | 3.880 | 3.350 | 2.723 | 2.348 |
| 146 | 1.76963 | 6.808 | 4.792 | 3.898 | 3.366 | 2.736 | 2.359 |
| 147 | 1.77789 | 6.840 | 4.815 | 3.917 | 3.382 | 2.749 | 2.370 |
| 148 | 1.78617 | 6.871 | 4.837 | 3.935 | 3.397 | 2.761 | 2.381 |
| 149 | 1.79446 | 6.903 | 4.859 | 3.953 | 3.413 | 2.774 | 2.392 |

## Appendix K: Damage Categories, Agents, Severity Ratings, and Tree Parts

### Damage Categories

Detailed descriptions and examples of the content in these tables is available using the Insect & Disease Codes links on the [FSVeg Documentation web page](http://fsweb.nris.fs.fed.us/products/FSVeg/documentation.shtml).

Table 79: Damage category codes

| **Code** | **Description** |
| --- | --- |
| 10 | General Insects |
| 11 | Bark Beetles |
| 12 | Defoliators |
| 13 | Chewing Insects |
| 14 | Sucking Insects |
| 15 | Boring Insects |
| 16 | Seed/Cone/Flower/Fruit Insects |
| 17 | Gallmaker Insects |
| 18 | Insect Predators |
| 19 | General Diseases |
| 20 | Biotic Damage |
| 21 | Root/Butt Diseases |
| 22 | Stem Decays/Cankers |
| 23 | Parasitic/Epiphytic Plants |
| 24 | Decline Complexes/Dieback/Wilts |
| 25 | Foliage Diseases |
| 26 | Stem Rusts |
| 27 | Broom Rusts |
| 30 | Fire |
| 40 | Animal Damage, Source Unknown |
| 41 | Wild Animals |
| 42 | Domestic Animals |
| 50 | Abiotic Damage |
| 60 | Competition |
| 70 | Human Activities |
| 71 | Harvest |
| 80 | Multi-Damage (Insect-Disease) |
| 90 | Unknown |
| 99 | Physical Effects |

### Damage Agents

Detailed descriptions and examples of the content in these tables is available using the Insect & Disease Codes links on the [FSVeg Documentation web page](http://fsweb.nris.fs.fed.us/products/FSVeg/documentation.shtml).

Table 80: Damage agent codes

| **Category** | **Agent** | **Common Name** | **Scientific Name** |
| --- | --- | --- | --- |
| **10** | **000** | **General insects** | **n/a** |
| 10 | 001 | Thrips | n/a |
| 10 | 002 | Tip moth | n/a |
| 10 | 003 | Wasp | n/a |
| 10 | 007 | Clerid beetle | Cleridae |
| 10 | 008 | Weevil | Curculionidae |
| 10 | 011 | Ant | Formicidae |
| 10 | 017 | Bagworm moth | Psychidae |
| 10 | 019 | Scarab | Scarabaeidae |
| 10 | 023 | Wood wasps | Siricidae spp. |
| **11** | **000** | **Bark beetles** | **n/a** |
| 11 | 001 | Roundheaded pine beetle | Dendroctonus adjunctus |
| 11 | 002 | Western pine beetle | Dendroctonus brevicomis |
| 11 | 004 | Jeffrey pine beetle | Dendroctonus jeffreyi |
| 11 | 005 | Lodgepole pine beetle | Dendroctonus murrayanae |
| 11 | 006 | Mountain pine beetle | Dendroctonus ponderosae |
| 11 | 007 | Douglas-fir beetle | Dendroctonus pseudotsugae |
| 11 | 009 | Spruce beetle | Dendroctonus rufipennis |
| 11 | 012 | Red turpentine beetle | Dendroctonus valens |
| 11 | 015 | Western balsam bark beetle | Dryocoetes confuses |
| 11 | 016 | Unknown | Dryocoetes sechelti |
| 11 | 019 | Pinon ips | Ips confuses |
| 11 | 021 | Sixspined ips | Ips calligraphus |
| 11 | 022 | Emarginated ips | Ips emarginatus |
| 11 | 025 | Arizona five-spined ips | Ips lecontei |
| 11 | 029 | Pine engraver | Ips pini |
| 11 | 030 | Ips engraver beetles | Ips spp/ |
| 11 | 031 | Unknown | Ips tridens |
| 11 | 032 | Western ash bark beetle | Leperisinus californicus |
| 11 | 035 | Cedar bark beetle | Phloeosinus spp. |
| 11 | 036 | Western cedar bark beetle | Phloeosinus punctatus |
| 11 | 037 | Tip beetles | Pityogenes spp. |
| 11 | 038 | Douglas-fir twig beetle | Pityophthorus pseudotsugae |
| 11 | 039 | Twig beetles | Pityophthorus spp. |
| 11 | 040 | Four-eyed spruce beetle | Polygraphus rufipennis |
| 11 | 041 | Fir root bark beetle | Pseudohylesinum granulates |
| 11 | 043 | Douglas-fir pole beetle | Pseudohylesinus nebulosus |
| 11 | 045 | Small European elm bark beetle | Scolytus multistriatus |
| 11 | 046 | Spruce engraver | Scolytus piceae |
| 11 | 048 | True fir bark beetle | Scolytus spp. |
| 11 | 049 | Douglas-fir engraver | Scolytus unispinosus |
| 11 | 050 | Fir engraver | Scolytus ventralis |
| 11 | 055 | Spruce ips | Ips pilifrons |
| 11 | 056 | Mexican pine beetle | Dendroctonus mexicanus |
| **12** | **000** | **Defoliators** | **n/a** |
| 12 | 001 | Casebearer | n/a |
| 12 | 002 | Leaftier | n/a |
| 12 | 003 | Looper | n/a |
| 12 | 004 | Needleminer | n/a |
| 12 | 005 | Sawfly | n/a |
| 12 | 006 | Skeletonizer | n/a |
| 12 | 009 | Webworm | n/a |
| 12 | 011 | Western blackheaded budworm | Acleris gloverana |
| 12 | 013 | Whitefly | Aleyrodoidae |
| 12 | 014 | Fall cankerworm | Alsophila pometaria |
| 12 | 016 | Mountain mahogany looper | Anacamptodes clivinaria profanata |
| 12 | 020 | Western larch sawfly | Anoplonyx occidens |
| 12 | 023 | Boxelder defoliator | Archips negundanus |
| 12 | 024 | Oak leafroller | Archips semiferana |
| 12 | 025 | Birch sawfly | Arge pectoralis |
| 12 | 033 | Boxelder leafroller | Caloptilia negundella |
| 12 | 037 | Large aspen tortrix | Choristoneura conflictana |
| 12 | 039 | Sugar pine tortrix | Choristoneura lambertiana |
| 12 | 040 | Western spruce budworm | Choristoneura occidentalis |
| 12 | 043 | Aspen leaf beetle | Chrysomela crotchi |
| 12 | 044 | Cottonwood leaf beetle | Chrysomela scripta |
| 12 | 045 | Leafhopper | Cicadellidae |
| 12 | 047 | Larch casebearer | Coleophora laricella |
| 12 | 049 | Lodgepole needleminer | Coleotechnites milleri |
| 12 | 050 | Ponderosa needleminer | Coleotechnites spp. |
| 12 | 052 | Pandora moth | Coloradia Pandora |
| 12 | 056 | Dusky birch sawfly | Croesus latitarus |
| 12 | 060 | Spruce coneworm | Dioryctria reniculelloides |
| 12 | 066 | White fir needleminer | Epinotia meritana |
| 12 | 069 | Pine needleminer | Exoteleia pinifoliella |
| 12 | 072 | Geometrid moth | Geometridae |
| 12 | 073 | Leafblotch miner | Gracillariidae |
| 12 | 074 | Spotted tussock moth | Halisidota maculate |
| 12 | 077 | Brown day moth | Hemileuca eglanterina |
| 12 | 082 | Fall webworm | Hyphantria cunea |
| 12 | 084 | Unknown | Lambdina punctate |
| 12 | 087 | Willow leafblotch miner | Lithocolletis spp. |
| 12 | 089 | Gypsy moth | Lymantria dispar |
| 12 | 094 | Western tent caterpillar | Malacosoma californicum |
| 12 | 096 | Forest tent caterpillar | Malacosoma disstria |
| 12 | 099 | Blister beetle | Meloidae |
| 12 | 116 | Pine butterfly | Neophasia menapia |
| 12 | 121 | Rusty tussock moth | Orgyia antiqua |
| 12 | 123 | Douglas-fir tussock moth | Orgyia pseudotsugata |
| 12 | 124 | Western tussock moth | Orgyia vetusta |
| 12 | 125 | Spring cankerworm | Paleacrita vernata |
| 12 | 128 | Pine tussock moth | Parorygia grisefacta |
| 12 | 135 | Aspen leafminer | Phyllocnistis populiella |
| 12 | 139 | Larch sawfly | Pristiphora erichsonii |
| 12 | 140 | Mountain-ash sawfly | Pristiphora geniculate |
| 12 | 141 | Elm leaf beetle | Prrhalta luetola |
| 12 | 143 | Giant silkworm moth | Saturniidae |
| 12 | 144 | Redhumped caterpillar | Schizura concinna |
| 12 | 150 | Spruce needleminer (west) | Taniva albolineana |
| 12 | 155 | Leafroller/seed moth | Torticidae |
| 12 | 156 | Willow defoliation | Tortricidae |
| 12 | 160 | Pine needle sheathminer | Zelleria haimbachi |
| 12 | 178 | Western oak looper | Lambdina discellaria somniaria |
| 12 | 181 | Tent Ceterpillar | Malacosoma spp. |
| 12 | 190 | Hickory tussock moth | Halisidota caryae |
| 12 | 191 | Pin oak sawfly | Caliroa lineata |
| 12 | 192 | Palmerworm | Dichomeris ligulella |
| 12 | 193 | Pitch pine looper | Lambdina athasaria pellucidaria |
| 12 | 194 | Red pine sawfly | Neodiprion annulus annulus |
| 12 | 195 | Pine tip moth | Argyrotaenia pinatubana |
| 12 | 196 | Baldcypress leafroller | Archips goyerana |
| 12 | 197 | Winter moth | Operophtera |
| 12 | 198 | Basswood thrip | Neohydatothrips |
| 12 | 199 | Noctuid moth | Xylomyges simplex (walker) |
| 12 | 200 | Pyralid moth | Palpita magniferalis |
| **13** | **000** | **Chewing insects** | **n/a** |
| 13 | 001 | Grasshopper | n/a |
| 13 | 006 | Cicadas | Cicadidae |
| 13 | 008 | Cutworms | Euxoa excellens |
| 13 | 021 | Ponderosa pine tip moth | Rhyacionia zozana |
| 13 | 022 | Pine needle weevil | Scythropus spp. |
| 13 | 030 | Adana tip moth | Rhyacionia adana |
| **14** | **000** | **Sucking insects** | **n/a** |
| 14 | 001 | Scale insect | n/a |
| 14 | 002 | Western larch wooly aphid | Adelges oregonensis |
| 14 | 003 | Balsam woolly adelgid | Adelges piceae |
| 14 | 006 | Aphid | Aphididae |
| 14 | 008 | Western pine spittlebug | Aphrophora permutata |
| 14 | 012 | Pine needle scale | Chionaspis pinifoliae |
| 14 | 014 | Giant conifer aphid | Cinara spp. |
| 14 | 017 | Spruce aphid | Elatobium anetinum |
| 14 | 018 | Woolly apple aphid | Eriosoma lanigerum |
| 14 | 024 | Honeysuckle aphid | Hyadaphis tataricae |
| 14 | 026 | Lecanium scale | Lecanium spp. |
| 14 | 028 | Oystershell scale | Lepidosaphes ulmi |
| 14 | 029 | Pinyon needle scale | Matsucoccus acalyptus |
| 14 | 035 | Treehoppers | Membracidae |
| 14 | 039 | Black pineleaf scale | Nuculaspis California |
| 14 | 040 | Spruce spider mite | Oligonychus ununquis |
| 14 | 043 | Maple aphid | Periphyllus spp. |
| 14 | 050 | Mealybug | Pseudococcidae |
| 14 | 054 | Spruce mealybug | Puto sandini |
| 14 | 069 | Elm scurfy scale | Chionaspis Americana |
| **15** | **000** | **Boring insects** | **n/a** |
| 15 | 001 | Shoot borer | n/a |
| 15 | 002 | Termite | n/a |
| 15 | 003 | Ponderosa pine bark borer | Acanthocinus princeps |
| 15 | 004 | Bronze birch borer | Agrilus anxius |
| 15 | 006 | Bronze poplar borer | Agrilus liragus |
| 15 | 007 | Carpenter bees | Apidae |
| 15 | 008 | Flatheaded borer | Buprestidae |
| 15 | 009 | Golden buprestid | Buprestis aurulenta |
| 15 | 010 | Carpenter ants | Camponotus spp. |
| 15 | 011 | Gouty pitch midge | Cecidomyia piniinopis |
| 15 | 013 | Roundheaded borer | Cermbycidae |
| 15 | 018 | Carpenterworm moth | Cossidae |
| 15 | 019 | Poplar and willow borer | Cryptorphynchus lapathi |
| 15 | 021 | Douglas-fir twig weevil | Cylindrocopturus furnissi |
| 15 | 027 | Ponderous borer | Ergates spiculatus |
| 15 | 029 | Western pine shoot borer | Eucosma sonomana |
| 15 | 030 | Eucosma species | Eucosma spp. |
| 15 | 035 | Powderpost beetle | Lyctidae |
| 15 | 039 | Locust borer | Megacycllene robiniae |
| 15 | 041 | Flatheaded fir borer | Melanophila drummondi |
| 15 | 042 | Whitespotted sawyer | Monochamus scutellatus |
| 15 | 044 | Western ash borer | Neoclytus conjunctus |
| 15 | 050 | White pine weevil | Pissodes radiatae |
| 15 | 051 | Lodgepole terminal weevil | Pissodes terminalis |
| 15 | 052 | Ambrosia beetles | Platypus spp. |
| 15 | 057 | Lilac borer | Podosesia syringae |
| 15 | 060 | Western subterranean termite | Reticulitermes Hesperus |
| 15 | 064 | Western pine tip moth | Rhyacionia bushnelli |
| 15 | 068 | Poplar borer | Saperda calcarata |
| 15 | 070 | Saperda shoot borer | Saperda spp. |
| 15 | 071 | Clearwing moths | Sesiidae |
| 15 | 073 | Roundheaded fir borer | Tetropium abietis |
| 15 | 076 | Douglas-fir pitch moth | Vespamima novaroensis |
| 15 | 077 | Sequoia pitch moth | Vespamima sequoia |
| 15 | 087 | Emerald ash borer | Agrilus planipennis |
| **16** | **000** | **Seed/Cone/Flower/Fruit Insects** | **n/a** |
| 16 | 001 | Douglas-fir cone moth | Barbara colfaxiana |
| 16 | 002 | Lodgepole cone beetle | Conophthorus contortae |
| 16 | 003 | Limber pine cone beetle | Conophthorus flexilis |
| 16 | 004 | Mountain pine cone beetle | Conophthorus monticolae |
| 16 | 005 | Ponderosa pine cone beetle | Conophthorus ponderosae |
| 16 | 010 | Douglas-fir cone midge | Contarinia oregonesis |
| 16 | 015 | Fir coneworm | Dioryctria abietivorella |
| 16 | 017 | Pine cone worm | Dioryctria merkeli |
| 16 | 019 | Ponderosa twig moth | Dioryctria ponderosae |
| 16 | 020 | Unknown | Dioryctria pseudotsugella |
| 16 | 021 | Dioryctria moths | Dioryctria spp. |
| 16 | 022 | Lodgepole cone moth | Eucosma rescissoriana |
| 16 | 023 | Seed chalcid | Eurytomidae |
| 16 | 025 | Cone maggot | Hylemya anthracina |
| 16 | 027 | Ponderosa pine seed worm/moth | Laspeyresia piperana |
| 16 | 028 | Spruce seed moth | Laspeyresia youngana |
| 16 | 029 | Boxelder bug | Leptocoris trivittatus |
| 16 | 031 | Western conifer seed bug | Leptoglossus occidentalis |
| 16 | 034 | Spruce seed chalcid | Magastigmus piceae |
| 16 | 035 | Ponderosa pine seed chalcid | Megastigmus albifrons |
| 16 | 036 | Fir seed chalcid | Megastigmus pinus |
| 16 | 037 | Douglas-fir seed chalcid | Megastigmus spermotrophs |
| 16 | 042 | Coneworm | Phycitidae |
| 16 | 043 | Harvester ants | Pogonomyrmex spp. |
| 16 | 049 | Prairie tent caterpillar | Malacosoma lutescens |
| 16 | 050 | Jack pine tip beetle | Conophthorus banksianae |
| **17** | **000** | **Gallmarker insects** | **n/a** |
| 17 | 003 | Cooley spruce gall adelgid | Adelges cooleyi |
| 17 | 007 | Douglas-fir needle gall midge | Contarinia pseudotsugae |
| 17 | 010 | Hackberry nipplegall maker | Pachypsylla celtidismamma |
| 17 | 013 | Gall aphid | Phylloxeridae |
| 17 | 018 | Gouty pitch midge | Cedidomyia piniinopsis |
| 17 | 019 | Spider mites | Oligonychus spp. |
| **18** | **000** | **Insect predators** | **n/a** |
| 18 | 001 | Lacewing | n/a |
| 18 | 002 | Blackbellied clerid | Enoclerus lecontei |
| 18 | 003 | Redbellied clerid | Enoclerus sphegeus |
| 18 | 004 | Unknown | Formica rufa |
| 18 | 005 | Western yellowjacket | Vespula pennsylvanica |
| **19** | **000** | **General diseases** | **n/a** |
| **20** | **000** | **Biotic damage** | **n/a** |
| 20 | 001 | Damping off | n/a |
| 20 | 002 | Gray mold | Botrytis cinerea |
| **21** | **000** | **Root/butt diseases** | **n/a** |
| 21 | 001 | Armillaria root disease | Amillaria spp. |
| 21 | 004 | Brown crumbly rot | Fomitopsis pinicola |
| 21 | 007 | White mottled rot | Ganoderma applanatum |
| 21 | 008 | Ganoderma rot of hardwoods | Ganoderma lucidum |
| 21 | 009 | Ganoderma rot of conifers | Ganoderma tsugae |
| 21 | 010 | Annosus root disease | Heterobasidian annosum |
| 21 | 012 | Tomentosus root disease | Inonotus tomentosus |
| 21 | 013 | Charcoal root rot | Macrophomina phaseolina |
| 21 | 014 | Black stain root disease | Ophiostoma wageneri |
| 21 | 015 | Schweinitzii butt rot | Phaeolus schweinitzii |
| 21 | 018 | Phytophthora root rot | Phytophthora cinnamomi |
| 21 | 022 | Pythium root rot | Pythium spp. |
| 21 | 024 | Crown gall | Agrobacterium timefaciens |
| 21 | 027 | Brown cubical rot | Laetiporus sulphureus |
| **22** | **000** | **Stem decays/cankers** | **n/a** |
| 22 | 006 | Black knot of cherry | Apiosporina morbosa |
| 22 | 007 | Atropellis canker | Atropellis piniphila |
| 22 | 012 | Black canker of aspen | Ceratocystis fimbriata |
| 22 | 025 | Cryptosphaeria canker of aspen | Cryptosphaeria populina |
| 22 | 026 | Cytospora canker of fir | Cytospora abietis |
| 22 | 028 | Rust-red stringy rot | Echinodontium tinctorium |
| 22 | 029 | Sooty-bark canker | Encoelia pruinosa |
| 22 | 034 | Scleroderris canker | Gremmeniella abietina |
| 22 | 035 | Amelanchier rust | Gymnosporangium harknessianum |
| 22 | 036 | Cedar apple rust | Gymnosporangium juniper-virginianae |
| 22 | 038 | Hypoxylon canker of aspen | Hypoxylon mammatum |
| 22 | 047 | Red ring rot | Phellinus pini |
| 22 | 048 | Aspen trunk rot | Phellinus tremulae |
| 22 | 057 | Cytospora canker of aspen | Cytospora chrysosperma |
| 22 | 058 | Dothichiza canker | Dothichiza populae |
| 22 | 059 | Red belt fungus | Fomitopsis pinicola |
| 22 | 060 | Leucocytospora canker of spruce | Leucocytospora kunzei |
| 22 | 061 | Sooty bark canker | Phibalis singular |
| 22 | 064 | Tinder fungus | Fomes formntarius |
| 22 | 066 | Pinyon black stain | Leptographium wagnerii |
| 22 | 068 | False tinder fungus | Phellinus igniarius |
| 22 | 071 | Oyster mushroom | Pleurotus ostreatus |
| 22 | 074 | Cedar brown pocket rot | Poria serceomollis |
| 22 | 075 | Lachnellula canker | Lachnellula flavovirens |
| 22 | 076 | Strumella canker | Strumella coryneoidea |
| 22 | 077 | Phomopsis blight | Phomopsis juniperovora |
| 22 | 078 | Fusarium canker of yellow poplar | Fusarium solani |
| 22 | 079 | Sterile conk of maple and beech | Inonotus glomeratus |
| 22 | 080 | Canker of spruce | Aleurodiscus spp. |
| 22 | 081 | Birch conk | Piptoporus betulinusai |
| 22 | 082 | Canker | Discocainia treleasei |
| **23** | **000** | **Parasitic** | **Epiphytic plants** |
| 23 | 005 | White fir dwarf mistletoe | Arceuthobium abietinum f. sp. Concoloris |
| 23 | 006 | Lodgepole pine dwarf mistletoe | Arceuthobium americanum |
| 23 | 008 | Western dwarf mistletoe | Arceuthobium compylopodum |
| 23 | 009 | Limber pine dwarf mistletoe | Arceuthobium cyanocarpum |
| 23 | 010 | Pinyon dwarf mistletoe | Arceuthobium divaricatum |
| 23 | 011 | Douglas-fir dwarf mistletoe | Arceuthobium douglasii |
| 23 | 013 | Larch dwarf mistletoe | Arceuthobium laricis |
| 23 | 017 | Southwestern dwarf mistletoe | Arceuthobium vaginatum subsp. Crytopodum |
| 23 | 021 | Red fir dwarf mistletoe | Arceuthobium abietinum f. sp. Pauciflorum |
| 23 | 022 | Juniper true mistletoe | Phoradendron junipeum |
| **24** | **000** | **Decline complexes/ dieback/wilts** | **n/a** |
| 24 | 004 | Ash decline/yellows | n/a |
| 24 | 011 | Larch decline | n/a |
| 24 | 017 | True fir pest complex | n/a |
| 24 | 018 | Western X disease | n/a |
| 24 | 019 | Pinewood nematode | Bursaphelenchus xylophilus |
| 24 | 030 | Elm phloem necrosis | Mycoplasma |
| **25** | **000** | **Foliage diseases** | **n/a** |
| 25 | 009 | True fir needlecast | n/a |
| 25 | 011 | Cercospora blight of juniper | Cercospora sequoia |
| 25 | 014 | Ink spot of aspen | Ciborinia whetzelii |
| 25 | 015 | Pine needle rust | Coleosporium spp. |
| 25 | 022 | Elytroderma disease | Elytroderma deformans |
| 25 | 027 | Brown felt blight | Herpotrichia juniper |
| 25 | 029 | Hardwood anthracnose | Kabatiella apocrypta |
| 25 | 031 | Spruce needle cast | Lirula macrospora |
| 25 | 033 | White pine needle cast | Lophodermella arcuata |
| 25 | 034 | Lophodermella needle cast | Lophodermella spp. |
| 25 | 035 | Lophodermium needle cast | Lophodermium spp. |
| 25 | 036 | Marssonina blight | Marssonia populi |
| 25 | 037 | Melampsora rusts | Melampsora medusa |
| 25 | 039 | Larch needle cast | Meria laricis |
| 25 | 040 | Dothistroma needle blight | Mycosphaerella pini |
| 25 | 041 | Brown felt blight of pines | Neopeckia coulteri |
| 25 | 042 | Snow blight | Phacidum abietis |
| 25 | 050 | Douglas-fir needle cast | Rhabdocline spp. |
| 25 | 055 | Septoria leaf spot | Septoria alnifolia |
| 25 | 056 | Septoria leaf spot and canker | Septoria musiva |
| 25 | 057 | Sirococcus tip blight | Sirococcus conigenus |
| 25 | 058 | Diplodia blight | Sphaeropsis sapinea |
| 25 | 059 | Leaf blister of oak | Taphrina caerulescens |
| 25 | 060 | Venturia leaf blight of maple | Venturia acerina |
| 25 | 061 | Shepherd’s crook | Venturia tremulae |
| 25 | 062 | Dothistroma needle blight | Dothistroma septospora |
| 25 | 064 | Broom rust | Chrysomyxa arctostaphyli |
| 25 | 065 | Spruce needle rust | Lophodermium picea |
| 25 | 067 | Spruce needle cast | Lophodermium picea |
| 25 | 068 | Hardwood leaf rust | Rhizosphaera pini |
| 25 | 071 | Spruce needle cast | Rhizosphaera pini |
| 25 | 073 | Shepards crook | Ventirua populina |
| 25 | 074 | Delphinella shoot blight | Delphinella abietis |
| 25 | 075 | Tar spot | Rhytisma acerinum |
| **26** | **000** | **Stem rusts** | **n/a** |
| 26 | 001 | White pine blister rust | Cronartium ribicola |
| 26 | 002 | Western gall rust | Peridermium harknessii |
| 26 | 003 | Stalactiform blister rust | Cronartium coleosporioides |
| 26 | 004 | Comandra blister rust | Cronartium comandrae |
| 26 | 005 | Pinyon blister rust | Cronartium occidentale |
| 26 | 011 | Bethuli rust | Peridermium bethuli |
| 26 | 012 | Limb rust | Peridermium filamentosum |
| 26 | 013 | Southern cone rust | Cronartium strobilinum |
| **27** | **000** | **Broom rusts** | **n/a** |
| 27 | 001 | Spruce broom rust | Chrysomyxa arctostaphyll |
| 27 | 002 | Incense cedar broom rust | Gymnosporangium libocedri |
| 27 | 003 | Juniper broom rust | Gymnosporangium nidus-avis |
| 27 | 004 | Fir broom rust | Melampsorella caryophyllacearum |
| **30** | **000** | **Fire** | **n/a** |
| 30 | 031 | Wild-fire | n/a |
| 30 | 032 | Human caused fire | n/a |
| 30 | 033 | Crown fire damage | n/a |
| 30 | 034 | Ground fire damage | n/a |
| **40** | **000** | **Animal damage, source unknown** | **n/a** |
| **41** | **000** | **Wild animals** | **n/a** |
| 41 | 001 | Bear | n/a |
| 41 | 002 | Beaver | n/a |
| 41 | 003 | Big game (deer) | n/a |
| 41 | 004 | Mice or voles | n/a |
| 41 | 005 | Pocket gophers | n/a |
| 41 | 006 | Porcupines | n/a |
| 41 | 007 | Rabbits or hares | n/a |
| 41 | 008 | Sapsucker | n/a |
| 41 | 009 | Squirrels | n/a |
| 41 | 010 | Woodpeckers | n/a |
| 41 | 011 | Moose | n/a |
| 41 | 012 | Elk | n/a |
| 41 | 013 | Deer | n/a |
| 41 | 014 | Feral pigs | n/a |
| 41 | 015 | Mountain beaver | n/a |
| 41 | 016 | Deer or elk | n/a |
| 41 | 017 | Earthworm | Lumbricidae |
| **42** | **000** | **Domestic animals** | **n/a** |
| 42 | 001 | Cattle | n/a |
| 42 | 002 | Goats | n/a |
| 42 | 003 | Horses | n/a |
| 42 | 004 | Sheep | n/a |
| **50** | **000** | **Abiotic damage** | **n/a** |
| 50 | 001 | Air pollutants | n/a |
| 50 | 002 | Chemical | n/a |
| 50 | 003 | Drought | n/a |
| 50 | 004 | Flooding/high water | n/a |
| 50 | 005 | Frost | n/a |
| 50 | 006 | Hail | n/a |
| 50 | 007 | Heat | n/a |
| 50 | 008 | Lightning | n/a |
| 50 | 009 | Nutrient imbalances | n/a |
| 50 | 010 | Radiation | n/a |
| 50 | 011 | Snow/ice | n/a |
| 50 | 013 | Wind-tornado | n/a |
| 50 | 014 | Winter injury | n/a |
| 50 | 015 | Avalanche | n/a |
| 50 | 016 | Mud-land slide | n/a |
| 50 | 017 | Volcano | n/a |
| 50 | 018 | Other geologic events | n/a |
| 50 | 019 | Mechanical (non-human caused) | n/a |
| **60** | **000** | **Competition** | **n/a** |
| **70** | **000** | **Human activities** | **n/a** |
| 70 | 001 | Herbicides | n/a |
| 70 | 003 | Imbedded objects | n/a |
| 70 | 004 | Improper planting technique | n/a |
| 70 | 005 | Land clearing | n/a |
| 70 | 006 | Land use conversion | n/a |
| 70 | 007 | Logging damage | n/a |
| 70 | 008 | Mechanical | n/a |
| 70 | 009 | Pesticides | n/a |
| 70 | 010 | Roads | n/a |
| 70 | 011 | Soil compaction | n/a |
| 70 | 012 | Suppression | n/a |
| 70 | 013 | Vehicle damage | n/a |
| 70 | 014 | Road salt | n/a |
| **71** | **000** | **Harvest** | **n/a** |
| **80** | **000** | **Multi-damage (insect/disease)** | **n/a** |
| 80 | 001 | Aspen defoliation | n/a |
| 80 | 002 | Subalpine fir mortality | n/a |
| 80 | 004 | Pinion pine decline | n/a |
| **90** | **000** | **Unknown** | **n/a** |
| **99** | **000** | **Physical effects** | **n/a** |
| 99 | 001 | Broken or top missing | n/a |
| 99 | 002 | Dead top | n/a |
| 99 | 003 | Limby (large limbs top to ground) | n/a |
| 99 | 004 | Forked top | n/a |
| 99 | 005 | Forked below merch top | n/a |
| 99 | 006 | Crook or sweep | n/a |
| 99 | 007 | Checks, bole cracks | n/a |
| 99 | 008 | Foliage discoloration | n/a |
| 99 | 009 | Mortality (for plantation surveys only) | n/a |
| 99 | 010 | Lack of seed source or dieback (for plantation surveys only) | n/a |
| 99 | 011 | Pour planting stock (for plantation surveys only) | n/a |
| 99 | 012 | Poor growth/fading/foliage is yellowing and loss of needles is occurring | n/a |
| 99 | 013 | Total board foot volume loss | n/a |
| 99 | 014 | Total cubic foot volume loss | n/a |
| 99 | 015 | Bark removal | n/a |
| 99 | 016 | Foliage loss | n/a |
| 99 | 017 | Sunscald | n/a |
| 99 | 018 | Uproot | n/a |
| 99 | 019 | Scorched foliage | n/a |
| 99 | 020 | Scorched bark | n/a |
| 99 | 021 | Dieback (for plantation surveys only) | n/a |
| 99 | 022 | Poor crown form | n/a |
| 99 | 023 | Severe forking | n/a |
| 99 | 026 | Open wound | n/a |
| 99 | 031 | Broken or dead branches | n/a |
| 99 | 033 | Damaged shoots, buds, or foliage (for plantation surveys only) | n/a |
| 99 | 034 | Excessively deformed sapling | n/a |
| 99 | 036 | Fire scar | n/a |
| 99 | 037 | Leaning tree | >15% and self-supporting |
| 99 | 038 | Charred bark | Not recorded unless cambium is killed from heating |

### Damage Severity Ratings

Table 81: Damage severity rating codes

| **Category** | **Severity** | **Description** |
| --- | --- | --- |
| **10** | **n/a** | **General insects** |
| 10 | 1 | Minor: bottlebrush or shortened leaders, 0-2 forks on stem, OR <20% of branches affected, OR <50% of bole with visible larval galleries |
| 10 | 2 | Severe: 3 or more forks on bole, OR 20% or more branches affected, OR terminal leader dead, OR 50% or more of bole with visible larval galleries |
| **11** | **n/a** | **Bark beetles** |
| 11 | 1 | Unsuccessful bole attach: pitchout and beetle brood absent |
| 11 | 2 | Strip attacks: galleries and brood present |
| 11 | 3 | Successful current bole attack |
| 11 | 4 | Topkill |
| 11 | 5 | Successful attack last year |
| 11 | 6 | Older dead |
| **12** | **n/a** | **Defoliators** |
| 12 | 1 | Light defoliation (1-25%), no topkill |
| 12 | 2 | Light defoliation (1-25%), topkill ≤10% |
| 12 | 3 | Light defoliation (1-25%), topkill >10% |
| 12 | 4 | Moderate defoliation (26-75%), no topkill |
| 12 | 5 | Moderate defoliation (26-75%), topkill ≤10% |
| 12 | 6 | Moderate defoliation (26-75%), topkill >10% |
| 12 | 7 | Heavy defoliation (76-100%), no topkill |
| 12 | 8 | Heavy defoliation (76-100%), topkill ≤10% |
| 12 | 9 | Heavy defoliation (76-100%), topkill >10% |
| **13** | **n/a** | **Chewing insects** |
| 13 | 1 | Minor: bottlebrush or shortened leaders, 0-2 forks on stem, OR <20% of branches affected |
| 13 | 2 | Severe: 3 or more forks on bole, OR 20% or more branches affected, OR terminal leader dead |
| **14** | **n/a** | **Sucking insects** |
| 14 | 1 | Minor: bottlebrush or shortened leaders, 0-2 forks on stem, OR <20% of branches affected |
| 14 | 2 | Severe: 3 or more forks on bole, OR 20% or more branches affected, OR terminal leader dead |
| **15** | **n/a** | **Boring insects** |
| 15 | 1 | Minor: bottlebrush or shortened leaders, 0-2 forks on stem, OR <20% of branches affected |
| 15 | 2 | Severe: 3 or more forks on bole, OR 20% or more branches affected, OR terminal leader dead |
| **16** | **n/a** | **Seed/cone/flower/fruit insects** |
| 16 | 1 | Minor |
| 16 | 2 | Severe |
| **17** | **n/a** | **Gallmaker insects** |
| 17 | 1 | Minor |
| 17 | 2 | Severe |
| **18** | **n/a** | **Insect predators** |
| 18 | 1 | Minor |
| 18 | 2 | Severe |
| **19** | **n/a** | **General diseases** |
| 19 | 1 | Minor |
| 19 | 2 | Severe |
| **20** | **n/a** | **Biotic damage** |
| 20 | 1 | Minor |
| 20 | 2 | Severe |
| **21** | **n/a** | **Root/butt diseases** |
| 21 | 1 | (for individual trees) Tree within 30 feet of tree with deteriorating crown, tree with diagnostic symptoms or signs, or tree killed by root disease |
| 21 | 2 | (for individual trees) Pathogen (sign) or diagnostic symptom detected – no crown deterioration |
| 21 | 3 | (for individual trees) Crown deterioration detected – no diagnostic symptom or signs |
| 21 | 4 | (for individual trees) Both crown deterioration and diagnostic signs symptoms detected |
| 21 | 5 | (for individual trees) Bleeding present on bole |
| 21 | 6 | (for individual trees) Bleeding present on bole and adjacent mortality present |
| 21 | 7 | (for individual trees) Laboratory confirmed Sudden Oak Death |
| 21 | G2 | (for setting level) Minor evidence of RDS on plot |
| 21 | G3 | (for setting level) RDS present, canopy reduction less than 20% |
| 21 | G4 | (for setting level) RDS present, canopy reduction 20-30% |
| 21 | G5 | (for setting level) RDS present, canopy reduction 30-50% |
| 21 | G6 | (for setting level) RDS present, canopy reduction 50-75%, most ground area infested |
| 21 | G7 | (for setting level) RDS present, 76+% canopy reduction |
| 21 | G8 | (for setting level) Entire area infested with RDS, one or very few susceptible overstory trees |
| 21 | G9 | (for setting level) Entire area infested with RDA, no susceptible overstory trees present |
| **22** | **n/a** | **Stem decay/canker** |
| 22 | 0 | 0-4% rotten |
| 22 | 1 | 5-15% rotten |
| 22 | 2 | 16-25% rotten |
| 22 | 3 | 26-35% rotten |
| 22 | 4 | 36-45% rotten |
| 22 | 5 | 46-55% rotten |
| 22 | 6 | 56-65% rotten |
| 22 | 7 | 66-75% rotten |
| 22 | 8 | 76-85% rotten |
| 22 | 9 | 86-100% rotten |
| **23** | **n/a** | **Parasitic/epiphytic plants** |
| 23 | 1 | Hawksworth tree DMR rating = 1; light infection |
| 23 | 2 | Hawksworth tree DMR rating = 2; light infection |
| 23 | 3 | Hawksworth tree DMR rating = 3; medium infection |
| 23 | 4 | Hawksworth tree DMR rating = 4; medium infection |
| 23 | 5 | Hawksworth tree DMR rating = 5; heavy infection |
| 23 | 6 | Hawksworth tree DMR rating = 6; heavy infection |
| 23 | 7 | Vine damage: less than 50% of crown involved |
| 23 | 8 | Vine damage: 50% or more of crown involved |
| **24** | **n/a** | **Decline complexes/diebacks/wilts** |
| 24 | 1 | Minor: minor crown symptoms |
| 24 | 2 | Severe: severe crown symptoms |
| **25** | **n/a** | **Foliage diseases** |
| 25 | 1 | Minor: <20% of foliage affected or <20% of crown in brooms |
| 25 | 2 | Severe: >20% of foliage affected or >20% of crown in brooms |
| **26** | **n/a** | **Rust Stems** |
| 26 | 1 | Branch infections located greater than 2 feet from tree bole |
| 26 | 2 | Branch infections located between 6 inches and 2 feet from tree bole |
| 26 | 3 | Bole infections or branch infections located within 6 inches of bole |
| 26 | 4 | Topkill |
| **27** | **n/a** | **Broom rusts** |
| 27 | 1 | Minor: <20% of crown in brooms |
| 27 | 2 | Severe: >20% of crown in brooms |
| **30** | **n/a** | **Fire** |
| 30 | 1 | Minor: <20% of crown affected |
| 30 | 2 | Severe: >20% of crown affected or any damage to the bole |
| **40** | **n/a** | **Animal damage, source unknown** |
| 40 | 1 | Minor |
| 40 | 2 | Severe |
| **41** | **n/a** | **Wild animals** |
| 41 | 1 | Minor: <20% of crown affected, bole damage is <50% circumference |
| 41 | 2 | Severe: >20% of crown affected, bole damage is >50% circumference, upper 1/3 of crown is killed |
| 41 | 5 | Earthworms are present |
| 41 | 6 | Earthworms are absent |
| **50** | **n/a** | **Abiotic damage** |
| 50 | 1 | Minor: <20% of crown affected, bole damage is <50% circumference |
| 50 | 2 | Severe: >20% of crown affected, bole damage is >50% circumference, upper 1/3 of crown is killed |
| **60** | **n/a** | **Competition** |
| 60 | 1 | Minor: tree slightly deformed and has some lie, terminal growth |
| 60 | 2 | Severe: tree extremely deformed or has no live terminal, growth severely reduced relative to neighbors |
| **70** | **n/a** | **Human activities** |
| 70 | 1 | Minor |
| 70 | 2 | Severe |
| **71** | **n/a** | **Harvest** |
| 71 | 1 | Minor |
| 71 | 2 | Severe |
| **80** | **n/a** | **Multi-damage (insect/disease)** |
| 80 | 1 | Minor |
| 80 | 2 | Severe |
| **90** | **n/a** | **Unknown** |
| 90 | 0 | 0 – 9% affected |
| 90 | 1 | 10 – 19% affected |
| 90 | 2 | 20 – 29% affected |
| 90 | 3 | 30 – 39% affected |
| 90 | 4 | 40 – 49% affected |
| 90 | 5 | 50 – 59% affected |
| 90 | 6 | 60 – 69% affected |
| 90 | 7 | 70 – 79% affected |
| 90 | 8 | 80 – 89% affected |
| 90 | 9 | 90 – 100% affected |
| **99** | **n/a** | **Physical effects** |
| 99 | 001 | Broken top |
| 99 | 002 | Dead top |

Table 82: Category 99 damage severity rating codes

| **Category** | **Severity** | **Description** | **Actual percent of tree affected** |
| --- | --- | --- | --- |
| **99** | **n/a** | **Physical effects** | **n/a** |
| **99** | **001** | **Broken top** | **% of original height that is missing; for example, if a tree was originally 100 feet high, but 15 feet of the top is broken or missing; enter “15” in the severity code** |
| **99** | **002** | **Dead top** | **% of total tree height that is dead** |
| **99** | **003** | **Limby (large limbs top to bottom)** | **% of total tree height with many limbs/knots** |
| **99** | **004** | **Forked top** | **% of total tree height above fork** |
| **99** | **005** | **Forked below merch top** | **% of the total length of the bole affected** |
| **99** | **006** | **Crook or sweep** | **% of total tree height, which contains the crook or sweep** |
| **99** | **007** | **Checks, bole cracks** | **% of total tree height, which contains a crack or check** |
| **99** | **008** | **Foliage discoloration** | **% of foliage discolored** |
| **99** | **009** | **Mortality** | **1 = dead tree** |
| **99** | **010** | **Lack of seed source** | **If present, 100%** |
| **99** | **011** | **Poor planting stock source** | **If present, 100%** |
| **99** | **012** | **Poor growth** | **1 = minor (reduced growth);  2 = severe (affecting survival)** |
| **99** | **013** | **Total board foot volume loss** | **%of total board foot volume loss** |
| **99** | **014** | **Total cubic foot volume loss** | **% of total cubic foot volume loss** |
| **99** | **015** | **Bark removal** | **% of tree circumference missing bark** |
| **99** | **016** | **Foliage loss** | **1 = minor; 2 = severe** |
| **99** | **017** | **Sunscald** | **1 = minor; 2 = severe** |
| **99** | **018** | **Uproot** | **1 = uprooted** |
| **99** | **019** | **Scorched foliage** | **% of foliage scorched** |
| **99** | **020** | **Scorched bark** | **% of bark scorched** |
| **99** | **021** | **Dieback source** | **1 = minor; 2 = severe** |
| **99** | **022** | **Poor crown form** | **1 = minor; 2 = severe** |
| **99** | **023** | **Severe forking** | **% of bole with forks** |
| **99** | **026** | **Open wound** | **% of bole or trunk affected using the height and width of the wound; for example, if a tree is 100 feet tall and the wound covers 15 feet of the bole, enter a value of ”15”** |
| **99** | **031** | **Broken or dead branches** | **% of branches broken or dead** |
| **99** | **033** | **Damage shoots, buds, or foliage source** | **1 = minor; 2 = severe** |
| **99** | **034** | **Excessively deformed sapling** | **% of sapling deformed** |
| **99** | **036** | **Fire scar** | **% of bole covered by fire scar** |
| **99** | **037** | **Leaning tree** | **% lean from vertical** |
| **99** | **038** | **Charred bark** | **Not recorded unless cambium is killed from heating** |

### Tree Parts

Table 83: Tree part codes

| **Code** | **Description** |
| --- | --- |
| UN | Unspecified |
| TO | Top |
| FO | Foliar (crown) |
| LI | Limb |
| BO | Bole, other than Top or Base |
| BA | Base |
| RO | Roots |
| WT | Whole tree |
| TT | Top third of crown |
| MT | Middle third of crown |
| BT | Bottom third of crown |

## Appendix L: Accuracy Standards

Table 84: Settings Measurements

| **Field** | **Tolerance** |
| --- | --- |
| Project Name | No errors |
| Region | No errors |
| Proclaimed Forest | No errors |
| District | No errors |
| Location | No errors |
| Stand Number | No errors |
| Ownership | No errors |
| State | No errors |
| County | No errors |
| Administrative Forest | No errors |
| Date | No errors |
| Photo ID | No errors |
| Exam Level | No errors |
| Exam Purpose | No errors |
| Stratum | No errors |
| Existing Vegetation Composition Type | No errors |
| Potential Vegetation Reference | No errors |
| Potential Vegetation | No errors |
| Structure | No errors |
| Capable Growing Area | ± 10 percent |
| Fuel Model | No errors |
| Elevation | ± 2 contour intervals |
| Aspect | ± 45 degrees |
| Slope | ± 10 percent |
| Slope Position | ± 1 class |
| Acres | No errors |
| Radial Growth Interval | No errors |
| Radial Growth Interval #2 | No errors |
| Height Growth Interval | No errors |
| Fuel Photo Reference | No errors |
| Precision Protocol | No errors |
| Examiner | No errors |
| Stand Remarks | No errors |
| Damage Category | No errors |
| Damage Agent | No errors |
| Damage Severity | No errors |
| Species of Management Interest | No errors |
| Sketch Map and Traverse Notes | n/a |

Table 85: Sample Design Criteria

| **Field** | **Tolerance** |
| --- | --- |
| Form Type | n/a |
| Selection Method Type | No errors |
| Sample Expansion Factor | No errors |
| Plots Installed | No errors |
| Sub-population Filter | No errors |
| Starting Azimuth | No errors |
| Sample Design Remarks | No errors |
| Selection Criteria Number | No errors |
| Sub-pop Variable | No errors |
| Sub-pop Minimum Value | No errors |
| Sub-pop Maximum Value | No errors |

Table 86: Plot Data

| **Field** | **Tolerance** |
| --- | --- |
| Plot Number | No errors |
| Plot Latitude | No errors |
| Plot Longitude | No errors |
| Capable Grow Area | ± 10 percent |
| Plot Aspect | ± 45 |
| Plot Scope | ± 10 percent |
| Slope Position | ± 1 class |
| Slope Horizontal Shape | ± 1 class |
| Slope Vertical Shape | ± 1 class |
| Plot Elevation | ± 2 contour intervals |
| Existing Vegetation | No errors |
| Potential Vegetation | Accurate to series understory union and phases |
| Plot History | No errors |
| Plot History Date | Year required in field 12 is other than code 10 or blank |
| Fuel Model | No errors |
| Residual Descriptive Code | No errors |
| Distance to Seed Wall | ± 100 feet |
| Plot Remarks | n/a |

Table 87: Tree Data

| **Field** | **Tolerance** |
| --- | --- |
| Plot Number | No errors |
| Tag ID Number | No errors |
| Tree Status | No errors allowed in recognizing and coding down trees |
| Site/Growth Trees | No errors |
| Tree Species | No errors |
| Tree Count | See specifics in Table 88 |
| Number Stems | No errors |
| DBH/DRC Intensive Exam | See specifics in Table 89 |
| DBH/DRC Extensive Exam | See specifics in Table 90 |
| DBH/DRC Quick Exam | See specifics in Table 91 |
| Height | 10 percent |
| Height to Crown | 10 percent |
| Radial Growth | 1/20th inch |
| Radial Growth #2 | 1/20th inch |
| Height Growth | See specifics in Table 92 |
| Tree Age | 10 percent (based on actual tree ring count at breast height for trees ≥ 3.0” DBH otherwise based on total age recorded) |
| Crown Ratio | 10 percent |
| Crown Class | No errors |
| Crown Width | No errors |
| Wildlife Use | No errors |
| Log/Snag Decay | No errors |
| Cone Seronity | No errors |
| Damage Category | No errors, specifics listed in Table 93 |
| Damage Agent | No errors |
| Damage Part | No errors |
| Damage Severity | No errors |
| Tree Remarks | n/a |

Table 88: Tree Data, Tree Count

| **Height Range** | **Diameter Range** | **Trees on Point** | **Tolerance** |
| --- | --- | --- | --- |
| \*All | All | 0 | 0 trees |
| ≤ 0.5 feet | All | 1-5 | ± 2 trees |
| ≤ 0.5 feet | All | 6+ | ± 50 percent |
| > 0.5 feet | < 0.5 in. | 1-5 | ± 1 tree |
| > 0.5 feet | < 0.5 in. | 6+ | ± 20 percent |
| All | .5” – breakpoint DBH | 1-5 | ± 1 tree |
| All | .5” – breakpoint DBH | 6+ | ± 10 percent |
| All | Breakpoint DBH + | 1+ | 0 trees |

\* There is no tolerance for recording a tree when none are actually present in any of the above size classes. The recording of a fixed plot tree when none are present will result in a single discrepancy. The recording of a variable plot tree when none are present will result in an unacceptable unit.

Group criteria are standardized to facilitate stand exam contract inspection and payment. However, distinguishing characteristics other than tree class, species, and size class may warrant individual tree recording or more refined grouping criteria. Such characteristics include: age, crown ratio, crown class, or incident of damage.

Table 89: Tree Data, DBH/DRC Intensive Exam

| **Tolerance** | **Diameter** |
| --- | --- |
| No errors | <.5 inch |
| ± .1 inch | .5 inch – 13.9 inches |
| ± .2 inch | 14.0 inches – 23.9 inches |
| ± .3 inch | 24.0 inches – 34.9 inches |
| ± .5 inch | 35.0 inches + |
| ± .1 inch | Borderline variable plot trees |
| ± .1 inch | Estimated DRC |

Table 90: Tree Data, DBH/DRC Extensive Exam

| **Tolerance** | **Diameter** |
| --- | --- |
| ± 1 inch | ≤ 20 inches |
| ± 5% of diameter | > 20 inches |

Table 91: Tree Data, DBH/DRC Quick Exam

| **Tolerance** | **Diameter** |
| --- | --- |
| ± 2 inches | ≤ 20 inches |
| ± 10% of diameter | > 20 inches |

Table 92: Tree Data, Height Growth

| **Tolerance** | **Diameter** |
| --- | --- |
| ± 1 foot | Trees > 6 feet |
| ± 0.1 foot | Trees ≤ 6 feet |

Table 93: Tree Data, Damage Category

| **Damage Category** | **Damage Category Description** | **Tolerance** |
| --- | --- | --- |
| 11 | Bark Beetles | No misses on live trees with a severity of 2 or greater |
| 12 | Defoliators | No misses on live trees with a severity of 3 or greater |
| 13-17 | Other Insects | No misses of shoot moths or weevils on live trees |
| 21 | Root/Butt Diseases | No misses on live trees with a severity of 2 or greater |
| 22 | Stem Decays/Cankers | No misses on live trees with a severity of 3 or greater |
| 25 | Foliage Diseases | No misses on Elytroderma on live trees |
| 41-42 | Animal Damage | No misses on live trees with terminal leader damage or with greater than ¼ of bole circumference affected |
| 50 | Abiotic Damage | No misses on wind, snow, or ice bending, breakage, or bole cracks and frost damage to shoots on trees less than 1-inch diameter and lightning |
| 70 | Human Damage | No misses on live trees for logging damage or fire if the damage affects greater than ¼ of the bole circumference or if an open wound is in contact with the ground |

Table 94: Ground Surface Cover

| **Field** | **Tolerance** |
| --- | --- |
| Plot Number | No errors |
| Cover Type | No errors |
| Cover Percent | ± 10 percent |

Table 95: Vegetation Composition

| **Field** | **Tolerance** |
| --- | --- |
| Plot Number | No errors |
| Live/Dead | No errors |
| Layer | No errors |
| Life form | No errors |
| Species | No error in species-level identification for dominant, common, or community type indicator plants; no plant name can be repeated within a layer |
| Minimum Height | ± 10 percent of height |
| Average Height | ± 10 percent of height |
| Maximum Height | ± 10 percent of height |
| Canopy Cover | ± 10 percent |
| Average Diameter | No errors |
| Maturity | No errors |
| Cover Remarks | n/a |
| User Field | n/a |

Table 96: Down Woody

| **Field** | **Tolerance** |
| --- | --- |
| Plot Number | No errors |
| First Duff | ± ½ inch |
| Second Duff | ± ½ inch |
| Fuel Depth | No errors |
| Twigs 0 – .24 | ± 40 percent |
| Twigs .25 - .99 | ± 30 percent |
| Twigs 1.0 – 2.99 | ± 20 percent |
| Volume 1 | n/a |
| Weight 1 | n/a |
| Volume 2 | n/a |
| Weight 2 | n/a |
| Volume 3 | n/a |
| Weight 3 | n/a |
| Volume 4 | n/a |
| Weight 4 | n/a |
| Piece Count | No missed pieces |
| Decay Class | No errors |
| Diameter | ± 1 inch on measurements |
| Piece Length | No errors |

## Appendix M: Glossary of Terms

Table 97: Glossary

| **Term** | **Definition** |
| --- | --- |
| Aspect | A position facing or commanding a given direction; exposure. Aspect is the compass direction of the prevailing slope with respect to true north. |
| Azimuth | A horizontal angular measure from true north to an object of interest. |
| Basal Area | The cross-sectional area of the stem or stems of a plant or of all plants in a stand; generally expressed as square units per unit area. For trees, measured at 4.5 feet above ground; forbs and grasses are measure at the root crown |
| Bole Length | The straight-line distance measured parallel to the main bole of a tree, from its base to its tip. |
| Breast Height | A point located on the uphill side of the main stem, by measuring 4.5 feet along the uphill side of the bole from ground level or the predominant root collar. Preclude slight, non-compacted litter accumulations when establishing breast height. |
| CALVEG | Classification and Assessment with LANDSAT of Visible Ecological Groupings. It is a California-wide system for classifying vegetative and non-vegetative cover types. The primary cover type relates to life form and uses a 3-character alpha code. |
| Canopy Cover | The percent of a fixed area covered by the crown of an individual plant species or delimited by the vertical projection of its outermost perimeter; small openings in the crown are included. |
| Compacted Live Crown Ratio | The percent of the total height of the tree that supports a full, live crown. For trees that have uneven length crowns, occularly transfer lower branches to fill holes in the upper portions of the crown, until a full, even crown is created. |
| Compartment | A land area, usually between 3,000 and 8,000 acres, easily identified on the ground by physical features. A compartment tis comparable in size to a sub-watershed, or landscape management unit. It is used as a convenience for maintaining stand records and planning vegetation management projects. |
| Crown Class | The relative position of the tree or shrub crown with respect to the competing vegetation around it. Crown class for each tree or shrub is judged in the context of its immediate environment, that is those trees or shrubs which are competing for sunlight with the subject tree or shrub. |
| Crown Length | The vertical distance from the top of the leader to the base of the crown, measured to the lowest live branch-whorl with live branches in at least three quadrants, and continuous with the main crown. |
| Crown Ratio | The ratio of compacted live crown length to bole length. Lengths are measured parallel to the bole from the base of the tree to the tip. |
| DEM | Digital Elevation Model. USGS geographic elevation data distributed in raster form. Digital representation of the shape of the earth’s surface. Typically, digital elevation data consists of arrays of values that represent topographic elevations measured at equal intervals on the Earth’s surface. |
| Diameter | The length of a straight-line segment passing through the center of an item and terminating at its periphery. |
| Diameter at Breast Height (DBH) | A measure at breast height (4.5 feet), outside bark, of the tree bole, perpendicular to the tree bole. |
| Diameter at Root Collar (DRC) | The straight line passing through the center of a cross section of a bole measured at the root collar of a shrub or tree. |
| Down Log | Stem material (conifer or hardwood) that is lying on the ground. If a stem material is leaning more than 45 degrees from vertical, is not self-supporting, and/or in contact with the ground, it is considered a down log. |
| Down Woody Material | Woody pieces of trees and shrubs that have been uprooted (no longer supporting growth) or severed from their root system, not self-supporting, and are lying on the ground. |
| Duff Layer | Duff is the fermentation and humus layer of the forest floor. It does not include the freshly cast material in the litter layer. The top of the duff is where needles, leaves, and other cast-off vegetative material have noticeably begun to decompose. Individual particles usually will be bound by fungi mycelium. When moss is present, the top of the duff is just below the green portion of the moss. The bottom of the duff is the start of the soil (“A” horizon). |
| Elevation | Vertical distance from a datum, usually mean sea level, to a point or object on the earth’s surface. Not to be confused with altitude, this refers to points above the earth’s surface. |
| Fuel Bed | The fuel bed is accumulation of dead, woody residue on the forest floor. It begins at the top of the duff layer and above. It includes litter, dead limb wood, and bole wood from tree species, as well as dead material from shrub, herbaceous, and grass species. |
| Fuel Model | Mathematical descriptions of fuel properties (e.g., fuel load and fuel depth) that are used as inputs to calculations of fire danger indices and fire behavior potential. |
| GPS | Global Positioning System. A network of radio-emitting satellites deployed by the U.S. Department of Defense. Ground-based GPS receivers can automatically derive accurate surface coordinates for all kinds of GIS, mapping, and surveying data collection. |
| Ground Level | The forest floor, made up by soil and duff layer. It does not include unincorporated woody debris that may rise above the ground line. In reference to a point of measure, it is the highest point of the ground touching the bae of the object being referenced. |
| Group Tally | A count of one or more items of the same type or species and recorded as a single line entry. |
| Growth | A measure of the increase in growth layers for a specified time frame. |
| Height Growth | The increase in height over a set period of time. |
| Intersect Diameter | Measurement of diameter at a point where the sampling plane intersects the geometric center of the object being tallied. No adjustment is made for stem irregularities at the point of intersection. |
| Lean (Tree) | The deflection from vertical, > 15 degrees of a straight line passing through the geometric center of the base and top of the main stem. |
| Length | The measurement of the extent of something along its greatest dimension. |
| Life Form | Species and individuals that are grouped into classes on the basis of their similarities in structure and function. A growth form that displays an obvious relationship to important environmental factors. |
| Limiting Distance | A comparative measurement between the subplot radius and the distance from the subplot center to the center of the object. The comparison is used to determine whether the object is in or out of the fixed area subplot.  The object is “IN” if the measured distance is equal to or less than the subplot radius.  The object is “OUT” if the measured distance is greater than the subplot radius. |
| Live Crown Length | The straight-line distance measured parallel to the main bole of a tree, from the top of the live crown to the base of the live crown. |
| Ownership | The identification of the legal owner/administrator on both the surface and subsurface estates. |
| Plant Species | The major subdivision of a genus or subgenus of a plant being described or measured. |
| Plot Configuration | The size and shape of the sampling unit (plot) and the spatial arrangement of subplots within that unit. |
| Plot | A sub-sample of a plot or stand exam. This is the unit on which data are recorded to individual trees, snags, logs, understory vegetation, and fuels. Data can be collected on either a fixed area or variable radius area. |
| Proclaimed Forest | Units of the National Forest System as originally proclaimed or designated by Congress. |
| Quadratic Mean Diameter | The diameter of the tree of average basal area. |
| Radial Growth Increment | The increase in tree radius over a period of time at breast height, or occasionally at the base. |
| Random Sample | Any method of sample selection based on the theory of probability (degree of certainty). At any stage of the operation of selection, the probability of any set of units being selected must be known. It is the only method that can provide a measure of precision of the estimate. |
| Reconciliation Code | A code used to reflect the status of an individually tallied item with regards to previous surveys. |
| Slope | A deviation from the horizontal. |
| Species | A code that represents a fundamental category of taxonomic classification of an organism. |
| Stand | A spatially continuous group of trees and associated vegetation having similar structures and growing under similar soil and climatic conditions. |
| Stand Exam Grid | Basic data collection method for stand exams. It consists of a set of plots, separated by equal distances on a grid pattern. The lines of the grid (transects) are oriented in cardinal directions. There is a predetermined distance between plots. The number of transects and grid plots will vary depending upon the size and shape of the stand. |
| Stratified Sample | A method of sampling forest resources where stands or polygons of similar properties are lumped into strata. This improves the efficiency of an inventory by reducing the variability within a given population. The less variability there is within a strata, the fewer samples will need to be taken to achieve a statistically valid result. |
| Stratum | A group of stands within a condition class; similar characteristics such as forest type, tree size class, and canopy density. |
| Stump | The woody base of a tree remaining in contact with the soil after the trunk or main stem has been severed at a point less than 4.5 feet above ground height (measured on the uphill side). |
| Tree | A woody perennial plant, typically large, with a single well-defined stem carrying a more or less definite crown. |
| Tree Age | Total age of the above-ground stem of a tree (not age of the root stock or the total age from seed). Total age is usually the annual ring count to the pith of the tree at breast height plus an estimate of the number of years it took the tree to reach breast height. |

## Appendix N: Fuel Models

The original 13 fuel models are from “Aids to Determining Fuel Models for Estimating Fire Behavior,” Hal E. Anderson, INT-122, 1982. The remaining fuel models are from “Standard Fire Behavior Fuel Models: A Comprehensive Set for Use with Rothermel’s Surface Fire Spread Model” by Joe H. Scott and Robert E. Burgan. RMRS – GTR-153. June 2005.

Table 98: Fuel Models

| **Fuel Model** | **Fuel Model Code** | **Fuel Model Name** | **Fuel Type** | **Model Set** | **Fuel 1-hr** | **Fuel 10-hr** | **Fuel 100-hr** | **Fuel Bed Depth** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | n/a | Short grass (1 foot) | Grass and grass-dominated | Original 13 | 0.74 | 0 | 0 | 1 |
| 2 | n/a | Timber (grass and understory) | Grass and grass-dominated | Original 13 | 2 | 1 | 0.500 | 1 |
| 3 | n/a | Tall grass (2.5 feet) | Grass and grass-dominated | Original 13 | 3.01 | 0 | 0 | 2.50 |
| 4 | n/a | Chaparral (6 feet) | Chaparral and shrub fields | Original 13 | 5.01 | 4.010 | 2 | 6 |
| 5 | n/a | Brush (2 feet) | Chaparral and shrub fields | Original 13 | 1 | 0.500 | 0 | 2 |
| 6 | n/a | Dormant brush, hardwood slash | Chaparral and shrub fields | Original 13 | 1.50 | 2.500 | 2 | 2.50 |
| 7 | n/a | Southern rough | Chaparral and shrub fields | Original 13 | 1.13 | 1.870 | 1.500 | 2.50 |
| 8 | n/a | Closed timber litter | Timber litter | Original 13 | 1.50 | 1 | 2.500 | 0.20 |
| 9 | n/a | Hardwood litter | Timber litter | Original 13 | 2.92 | 0.410 | 0.150 | 0.20 |
| 10 | n/a | Timber (litter and understory) | Timber litter | Original 13 | 3.01 | 2 | 5.010 | 1 |
| 11 | n/a | Light logging slash | Slash | Original 13 | 1.50 | 4.51 | 5.510 | 1 |
| 12 | n/a | Medium logging slash | Slash | Original 13 | 4.01 | 14.03 | 16.53 | 2.30 |
| 13 | n/a | Heavy logging slash | Slash | Original 13 | 7.01 | 23.04 | 28.05 | 3 |
| 91 | NB1 | Urban/ Developed | Non-burnable | Scott and Burgan | 0 | 0 | 0 | 0 |
| 92 | NB2 | Snow/Ice | Non-burnable | Scott and Burgan | 0 | 0 | 0 | 0 |
| 93 | NB3 | Agricultural | Non-burnable | Scott and Burgan | 0 | 0 | 0 | 0 |
| 98 | NB4 | Open Water | Non-burnable | Scott and Burgan | 0 | 0 | 0 | 0 |
| 99 | NB5 | Bare Ground | Non-burnable | Scott and Burgan | 0 | 0 | 0 | 0 |
| 101 | GR1 | Short, Sparse Dry Climate Grass (Dynamic) | Grass | Scott and Burgan | 0.10 | 0 | 0 | 0.40 |
| 102 | GR2 | Low Load, Dry Climate (Dynamic) | Grass | Scott and Burgan | 0.10 | 0 | 0 | 1 |
| 103 | GR3 | Low Load, Very Coarse, Humid Climate Grass (Dynamic) | Grass | Scott and Burgan | 0.10 | 0.40 | 0 | 2 |
| 104 | GR4 | Moderate Load, Dry Climate Grass (Dynamic) | Grass | Scott and Burgan | 0.25 | 0 | 0 | 2 |
| 105 | GR5 | Low Load, Humid Climate Grass (Dynamic) | Grass | Scott and Burgan | 0.40 | 0 | 0 | 1.50 |
| 106 | GR6 | Moderate Load, Humid Climate Grass (Dynamic) | Grass | Scott and Burgan | 0.10 | 0 | 0 | 1.50 |
| 107 | GR7 | High Load, Dry Climate Grass (Dynamic) | Grass | Scott and Burgan | 1 | 0 | 0 | 3 |
| 108 | GR8 | High Load, Very Coarse, Humid Climate Grass (Dynamic) | Grass | Scott and Burgan | 0.50 | 1 | 0 | 4 |
| 109 | GR9 | Very High Load, Humid Climate Grass (Dynamic) | Grass | Scott and Burgan | 1 | 1 | 0 | 5 |
| 121 | GS1 | Low Load, Dry Climate Grass-Shrub (Dynamic) | Grass-Shrub | Scott and Burgan | 0.20 | 0 | 0 | 0.90 |
| 122 | GS2 | Moderate load, Dry Climate Grass-Shrub (Dynamic) | Grass-Shrub | Scott and Burgan | 0.50 | 0.500 | 0 | 1.50 |
| 123 | GS3 | Moderate Load, Humid Climate Grass-Shrub (Dynamic) | Grass-Shrub | Scott and Burgan | 0.30 | 0.250 | 0 | 1.80 |
| 124 | GS4 | High Load, Humid Climate Grass-Shrub (Dynamic) | Grass-Shrub | Scott and Burgan | 1.90 | 0.300 | 0.100 | 2.10 |
| 141 | SH1 | Low Load, Dry Climate Shrub (Dynamic) | Shrub | Scott and Burgan | 0.25 | 0.250 | 0 | 1 |
| 142 | SH2 | Moderate Load, Dry Climate Shrub | Shrub | Scott and Burgan | 1.35 | 2.400 | 0.750 | 1 |
| 143 | SH3 | Moderate Load, Humid Climate Shrub | Shrub | Scott and Burgan | 0.45 | 3 | 0 | 2.40 |
| 144 | SH4 | Low Load, Humid Climate Timber-Shrub | Shrub | Scott and Burgan | 0.85 | 1.150 | 0.200 | 3 |
| 145 | SH5 | High Load, Dry Climate Shrub | Shrub | Scott and Burgan | 3.60 | 2.100 | 0 | 6 |
| 146 | SH6 | Low Load, Humid Climate Shrub | Shrub | Scott and Burgan | 2.90 | 1.450 | 0 | 2 |
| 147 | SH7 | Very High Load, Dry Climate Shrub | Shrub | Scott and Burgan | 3.5 | 5.300 | 2.200 | 6 |
| 148 | SH8 | High Load, Humid Climate Shrub | Shrub | Scott and Burgan | 2.05 | 3.400 | 0.850 | 3 |
| 149 | SH9 | Very High Load, Humid Climate Shrub (Dynamic) | Shrub | Scott and Burgan | 4.50 | 2.450 | 0 | 4.40 |
| 161 | TU1 | Low Load, Dry Climate Timber-Grass-Shrub (Dynamic) | Timber - Understory | Scott and Burgan | 0.20 | 0.900 | 1.500 | 0.60 |
| 162 | TU2 | Moderate Load, Humid Climate Timber-Grass-Shrub (Dynamic) | Timber - Understory | Scott and Burgan | 0.95 | 1.800 | 1.250 | 1 |
| 163 | TU3 | Moderate Load, Humid Climate Timber-Grass-Shrub (Dynamic) | Timber – Understory | Scott and Burgan | 1.10 | 0.150 | 0.250 | 1.30 |
| 164 | TU4 | Dwarf Conifer with Understory | Timber – Understory | Scott and Burgan | 4.50 | 0 | 0 | 0.50 |
| 165 | TU5 | Very High Load, Dry Climate Timber-Shrub | Timber – Understory | Scott and Burgan | 4 | 4 | 3 | 1 |
| 181 | TL1 | Low Load Compact Conifer Litter | Timber Litter | Scott and Burgan | 1 | 2.200 | 3.600 | 0.20 |
| 182 | TL2 | Low Load Broadleaf Litter | Timber Litter | Scott and Burgan | 1.40 | 2.300 | 2.200 | 0.200 |
| 183 | TL3 | Moderate Load Conifer Litter | Timber Litter | Scott and Burgan | 0.50 | 2.200 | 2.800 | 0.30 |
| 184 | TL4 | Small Downed Logs | Timber Litter | Scott and Burgan | 0.50 | 1.500 | 4.200 | 0.40 |
| 185 | TL5 | High Load Conifer Litter | Timber Litter | Scott and Burgan | 1.15 | 2.500 | 4.400 | 0.60 |
| 186 | TL6 | Moderate Load Broadleaf Litter | Timber Litter | Scott and Burgan | 2.40 | 1.200 | 1.200 | 0.30 |
| 187 | TL7 | Large Downed Logs | Timber Litter | Scott and Burgan | 0.30 | 1.400 | 8.100 | 0.40 |
| 188 | TL8 | Long-Needle Litter | Timber Litter | Scott and Burgan | 5.80 | 1.400 | 1.100 | 0.30 |
| 189 | TL9 | Very High Load Broadleaf Litter | Timber Litter | Scott and Burgan | 6.65 | 3.300 | 4.150 | 0.60 |
| 201 | SB1 | Low Load Activity Fuel | Slash-Blowdown | Scott and Burgan | 1.50 | 3 | 11 | 1 |
| 202 | SB2 | High Load Activity Fuel or Moderate Load Blowdown | Slash-Blowdown | Scott and Burgan | 4.50 | 4.250 | 4 | 1 |
| 203 | SB3 | High Load Activity Fuel or Moderate Load Blowdown | Slash-Blowdown | Scott and Burgan | 5.50 | 2.750 | 3 | 1.20 |
| 204 | SB4 | High Load Blowdown | Slash-Blowdown | Scott and Burgan | 5.25 | 3.500 | 5.250 | 2.70 |

Table 99: Detailed Descriptions of the Fuel Models

| **Code** | **Detailed Description** |
| --- | --- |
| 1 | Contains fine, very porous, and continuous herbaceous fuels that have cured or are nearly cured. Generally less than one-third of the area contains shrubs or timber. Grasslands and savanna are represented along with stubble, grass-tundra, and grass-shrub combinations. Annual and perennial grasses are included in this fuel model. |
| 2 | Herbaceous material with litter and dead-down stem wood from the open shrub or timber overstory. Open shrub lands and pine stands or scrub oak stands that cover one-third to two-thirds of the area. Stand many include clumps and may include pinyon-juniper. |
| 3 | Stands are tall, averaging about three feet, but considerable variation may occur. Approximately one-third or more of the stand is considered dead and cured. May include cultivated grains that have not been harvested, tall prairie, and marshland grasses. |
| 4 | Stands of mature shrubs, 6 feet or more tall such as California mixed chaparral, the high pocosin along the east coast, the pine barrens of New Jersey, or the closed jack pine stands of the north-central states. Besides flammable foliage, stand may contain dead woody material. May contains a deep litter layer. |
| 5 | Shrubs are young with little dead material, and the foliage contains little volatile material. Usually shrubs are short and almost totally cover the area. Young, green stands with no dead wood qualify: laurel, vine maple, alder, or even chaparral, manzanita, or chamise. |
| 6 | The shrubs are older, but not as tall as model 4, nor do they contain as much fuel as model 4. This model covers a broad range of shrub conditions: intermediate stands of chamise, chaparral, oak brush, low pocosin, Alaskan spruce taiga, and shrub tundra. May include hardwood slash that has been cured. Pinyon-juniper shrub lands may be represented. |
| 7 | Stands of shrubs are generally between 2 and 6 feet high. Palmetto-galliberry understory, with a pine overstory are typical. Low pocosin may be represented. Black spruce shrub combinations in Alaska may also be represented. |
| 8 | Contains closed canopy stands of short needle conifers or hardwoods that have leafed out. The compact litter layer is mainly needles, leaves, and occasionally twigs because little undergrowth is present. Representative conifer types are white pine, lodgepole pine, spruce, fir, and larch. |
| 9 | Both long-needle conifer stands and hardwood stands, especially the oak-hickory types, are typical. Closed stands of long-needled pine like ponderosa, Jeffrey, red pines, or southern pine plantations are grouped in this model. May contain concentrations of dead-down woody material. |
| 10 | Dead-down fuels include quantities of 3-inch or larger limb wood resulting from over maturity or natural events that create a large load of dead material on the forest floor. Any forest type may be considered if heavy down material is present; examples are insect- or disease-ridden stands, wind thrown stands, over-mature situations with deadfall, and aged light thinning or partial cut slash. |
| 11 | Contains slash and herbaceous material intermixed with slash. Light partial cuts or thinning operations in mixed conifer stands, hardwood stands, and southern pine harvests are considered. Clearcuts generally produce more slash than represented here. The less than 3-inch material load is less than 12 tons per acre. The greater than 3 inch is represented by not more than 10 pieces, 4 inches in diameter, along a 60 foot transect. |
| 12 | The visual impression is dominated by slash and much of it is less than 3 inches in diameter. The fuels are well distributed. Heavily thinned conifer stands, clearcuts, and medium or heavy partial cuts are represented. The material larger than 3 inches is represented by encountering 11 pieces, 6 inches in diameter along a 50 foot transect. |
| 13 | There is a continuous layer of slash. Large quantities of material larger than 3 inches are present. Clearcuts and heavy partial cuts in mature and over-mature stands are depicted where the slash load is dominated by the greater than 3 inch diameter material. Fuels less than 3 inches are generally only 10 percent of the total load. May include situations where the slash still has “red” needles attached. |
| 91 | Land covered by urban and suburban development. The area must not support wildland fire spread. In some cases the area may experience structural fire losses during a wildland fire incident; however, structure ignition in those cases is either house-to-house or by firebrands, neither of which is directly modeled using fire behavior fuel models. If sufficient vegetation surrounds structures such that wildland fire spread is possible, then choose a fuel model appropriate for the wildland vegetation. |
| 92 | Land covered by permanent snow and ice. Areas covered by seasonal snow and ice can be mapped to two different fuel models. |
| 93 | Agricultural land maintained in a non-burnable condition, examples include irrigated annual crops, mowed or tilled orchards, and so forth. However, there are many agricultural areas that are not kept in a non-burnable condition. For example, grass is often allowed to grow beneath vines or orchard trees, and wheat and similar crops are allowed to cure before harvest; in those cases use a different fuel model. |
| 98 | Land covered by open bodies of water such as lakes, rivers, and oceans. |
| 99 | Land devoid of enough fuel to support wildland fire spread. Such areas include: gravel pits, arid deserts with little vegetation, sand dunes, rock outcroppings, beaches, and so forth. |
| 101 | The primary carrier of fire in sparse grass, though small amounts of fine fuel may be present. The grass is generally short, either naturally or by grazing, and may be sparse or discontinuous. The moisture extraction is indicative of a dry climate fuelbed, but may also be applied in high-extinction moisture fuelbeds because in both cases predicted spread rate and flame length are low compared to other grass models. |
| 102 | The primary carrier of fire is grass, though small amounts of fine dead fuel may be present. Load is greater than 101, and fuelbed may be more continuous. Shrubs, if present, do not affect fire behavior. |
| 103 | The primary carrier of fire is continuous, coarse, humid-climate grass. Grass and herb fuel load is relatively light; fuelbed depth is about 2 feet. Shrubs are not present in significant quantity to affect fire behavior. |
| 104 | The primary carrier of fire is continuous, dry-climate grass. Load and depth are greater than 102; fuelbed depth is about 2 feet. |
| 105 | The primary carrier of fire is humid-climate grass. Load is greater than 103 but depth is lower, about 1-2 feet. |
| 106 | The primary carrier of fire is continuous humid-climate grass. Load is greater than 105 but depth is about the same. Grass is less coarse than 105. |
| 107 | The primary carrier of fire is continuous dry-climate grass. Load and depth are greater than 104. Grass is about 3 feet tall. |
| 108 | The primary carrier of fire is continuous, very coarse, humid-climate grass. Load and depth are greater than 106. Spread rate and flame length can be extreme if grass is fully cured. |
| 109 | The primary carrier of fire is dense, tall, humid-climate grass. Load and depth are greater than 108, about 6 feet tall. Spread rate and flame length can be extreme if grass is fully more mostly cured. |
| 121 | The primary carrier of fire is grass and shrubs combined. Shrubs are about 1 foot height, grass load is low. Spread rate is moderate; flame length is low. Moisture of extinction is low. |
| 122 | The primary carrier of fire is grass and shrubs combined. Shrubs are 1 to 3 feet high, grass load is moderate. Spread rate is high; flame length moderate. Moisture of extinction is low. |
| 123 | The primary carrier of fire is grass and shrubs combined. Moderate grass/shrub load, average grass/shrub depth less than 2 feet. Spread rate is high; flame length moderate. Moisture of extinction is high. |
| 124 | The primary carrier of fire is grass and shrubs combined. Heavy grass/shrub load, depth greater than 2 feet. Spread rate high; flame length very high. Moisture of extinction is high. |
| 141 | The primary carrier of fire is woody shrubs and shrub litter. Low shrub fuel load, fuelbed about 1 foot; some grass may be present. Spread rate is very low; flame length very low. |
| 142 | The primary carrier of fire is woody shrubs and shrub litter. Moderate shrub fuel load (higher than 141), depth about 1 foot, no grass fuel present. Spread rate is very low; flame length low. |
| 143 | The primary carrier of fire is woody shrubs and shrub litter. Moderate shrub load, possibly with pine overstory or herbaceous fuel, fuel bed depth 2 to 3 feet. Spread rate is low; flame length low. |
| 144 | The primary carrier of fire is woody shrubs and shrub litter. Low to moderate shrub and litter load, possibly with pine overstory, fuel bed depth about 3 feet. Spread rate is high; flame length moderate. |
| 145 | The primary carrier of fire is woody shrubs and shrub litter. Heavy shrub load, depth 4-6 feet. Spread rate is very high; flame length very high. Moisture of extinction is high. |
| 146 | The primary carrier of fire is woody shrubs and shrub litter. Dense shrubs, little or no herbaceous fuel, fuelbed depth about 2 feet. Spread rate is high; flame length high. |
| 147 | The primary carrier of fire is woody shrubs and shrub litter. Very heave shrub load, depth 4 to 6 feet. Spread rate lower than 146, but flame length similar. Spread rate is high, flame length is very high. |
| 148 | The primary carrier of fire is woody shrubs and shrub litter. Dense shrubs, little or no herbaceous fuel, fuelbed depth about 3 feet. Spread rate is high; flame length high. |
| 149 | The primary carrier of fire is woody shrubs and shrub litter. Dense, finely branched shrubs with significant fine dead fuel, about 4 to 6 feet tall; some herbaceous fuel may be present. Spread rate is high; flame length is very high. |
| 161 | The primary carrier of furl is low load of grass and/or shrub with litter. Spread rate is low; flame length is low. |
| 162 | The primary carrier of fire is moderate litter load with shrub component. High extinction moisture. Spread rate is moderate; flame length is low. |
| 163 | The primary carrier of fire is moderate forest litter High extinction moisture. Spread rate is high; flame length is moderate. |
| 164 | The primary carrier of fire is short conifer trees with grass or moss understory. Spread rate is moderate; flame length is moderate. |
| 165 | The primary carrier of fire is heavy forest litter with a shrub or small tree understory. Spread rate is moderate; flame length is moderate. |
| 181 | The primary carrier of fire is compact forest litter. Light to moderate loads, fuels 1 to 2 inches deep. May be used to represent a recently burned forest. Spread rate is very low; flame length is very low. |
| 182 | The primary carrier of fire is broadleaf (hardwood) litter. Low load, compact broadleaf litter. Spread rate is very low; flame length is very low. |
| 183 | The primary carrier of fire is moderate load conifer litter, light load of coarse fuels. Spread rate is very low; flame length low. |
| 184 | The primary carrier of fire is moderate load of fine litter and coarse fuels. Includes small diameter downed logs. Spread rate is low; flame length low. |
| 185 | The primary carrier of fire is high load of fine litter; light slash or mortality fuel. Spread rate is low; flame length low. |
| 186 | The primary carrier of fire is moderate load broadleaf litter, less compact than 182. Spread rate is very moderate; flame length is low. |
| 187 | The primary carrier of fire is heavy load of forest litter, includes large diameter downed logs. Spread rate is low; flame length low. |
| 188 | The primary carrier of fire is moderate load long-needle pine litter, may include small amount of herbaceous load. Spread rate is moderate; flame length low. |
| 189 | The primary carrier of fire is very high load, fluffy broadleaf litter. This can also be used to represent heavy needle-drape. Spread rate is very moderate; flame length moderate. |
| 201 | The primary carrier of fire is light dead and down activity fuel. Fine fuel load is 10 to 20 t/ac weighted towards fuels 1 to 3 inch diameter class; depth is less than 1 foot. Spread rate is moderate; flame length moderate. |
| 202 | The primary carrier of fire is moderate dead and downed activity fuel or light blowdown. Fine fuel load is 7 to 12 t/ac, evenly distributed across 0 to 0.25, 0.25 to 1, and 1 to 3 inch diameter classes, depth is about 1 foot. Blowdown is scattered, with many trees still standing. Spread rate is moderate; flame length moderate. |
| 203 | The primary carrier of fire is heavy dead and down activity fuel or moderate blowdown. Fine fuel load is 7 to 12 t/ac, weighted toward 0 to 0.25 inch diameter class, depth is more than 1 foot. Blowdown is moderate; trees compacted to near the ground. Spread rate is high; flame length high. |
| 204 | The primary carrier of fire is heavy blowdown fuel. Blowdown is total, fuelbed is not compacted, most foliage and fine fuel still attached to blowdown. Spread rate is very high; flame length very high. |