

APPENDIX E: EXISTING VEGETATION REFERENCES AND CODES

February 2014

Existing Vegetation References

Code	Name	Author
PNW	Pacific Northwest Ecoclass Codes for Seral and Potential Natural Communities. PNW-GTR-418.	Frederick C. Hall. (1998)
R6F02	Region 6 Forest 2 (Fremont-Winema) Existing Vegetation Codes	

Existing PNW Vegetation Codes

Code	Description
AB	Buildings, structures, roads, campgrounds
AC	Cultivated lands
AG	Grassland; 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 redcedar
CD	Douglas-fir
CE	Subalpine fir, Engelmann 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	Subalpine 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

Existing PNW Vegetation Codes (cont.)

Code	Description
HL	Canyon live oak tree size
HO	Oak, Oregon or black
HQ	Quaking aspen
HT	Tanoak tree size
HX	Hardwood woodland 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	Mine 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 dunes
NT	Talus with minimal vegetative potential
NX	Nonvegetated land; less than 10 percent crown cover potential (no descriptor specified)
SC	Chaparral
SD	Dry shrubland (sagebrush)
SM	Mesic (forest zone) shrublands
SS	Subalpine 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)

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

Existing Region 6 Forest 2 (Fremont-Winema) Vegetation Codes (cont.)

EV Code	Common Name
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 redcedar
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	Jeffery 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

Code	Name	Author
110	Forest Habitat Types of Northern Idaho: A Second Approximation; USDA/FS Gen.Tech.Rep. INT-236.	Stephen V. Cooper, Kenneth E. Neiman, Robert Steele, and David W. Roberts (1987)
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.	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)
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

Potential Vegetation References (cont.)

Code	Name	Author
612	Plant Association 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 232-1986. 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. 513 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. Pavlat. 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 p.	Henderson, J.A., D.H. Peter, R.D. Leshner. 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 p.	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 p.	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. Leshner, 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. 101pp.	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, Rodrick 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

Potential Vegetation References (cont.)

Code	Name	Author
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 of the Colville National Forest. Gen. Tech. Rep. PNW-GTR-360.	Williams, Clinton K.; Kelley, Brian F.; Smith, Bradley G.; Lillybridge, Terry R. 1995
628	Vegetation of Two Drainages in Eagle Cap Wilderness, Wallowa Mountains, Oregon. INT-288. Ogden, UT: USDA Forest Service, Intermountain Forest and Range Experiment Station. 42 p.	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, R.R., and B.A. Zamora. 1987
632	Forest Vegetation of Eastern Washington and Northern Idaho. Tech. Bull. 60. Pullman, WA: Washington State University, Wash. Agr. Exp. Stat. 104 pp. illust.	Daubenmire, R. and Jean B. Daubenmire. 1968
633	Willamette N.F., Eugene, OR, Soil Inventory Mapping Units.	
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: Wash. State Univ., Agr. Res. Center. 65 pp, illus.	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, Federick C. (1998)
640	Some combination of references 604, 615, 622, and 624.	
641	Field Guide to the Forested Plant Associations of Southwestern Oregon. R6-NR-ECOL-TP-17-96. Portland, OR: U.S. Department of Agriculture, 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 Umpqua National Forests. USDA Forest Service, Pacific Northwest Region R6-NR-ECOL-TP-026-97.	Seda, Anitithomas Atzet, and David Wheeler. (1989, updated 1997)
645	Major Indicator Shrubs and Herbs 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)

Potential Vegetation References (cont.)

Code	Name	Author
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-02-02. 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. 2002	McCain, Cindy; Diaz, Nancy
649	Some combination of references 614, 619 and 647	
650	Some combination of references 642 and 648	
651	Some combination of references 608, 613, 620 and 623	

APPENDIX G: POTENTIAL VEGETATION CODES

REF	CODE	Common Name	Scientific Name
602	CJG1	western juniper/bluebunch wheatgrass	JUOC/PSSP6
602	CJG111	western juniper/Idaho fescue-bluebunch wheatgrass	JUOC/FEID-PSSPS
602	CJG112	western juniper/bluebunch wheatgrass-Sandberg bluegrass	JUOC/PSSP6-POSE
602	CJG2	western juniper/Idaho fescue	JUOC/FEID
602	CJS221	western juniper/big sagebrush/bluebunch wheatgrass	JUOC/ARTR2/PSSPS
602	CJS222	western juniper/big sagebrush/bluebunch wheatgrass-Douglas' dustymaiden	JUOC/ARTR2/PSSPS-CHDO
602	CJS223	western juniper/big sagebrush/bluebunch wheatgrass-woollypod milkvetch	JUOC/ARTR2/PSSPS-ASPUL2
602	CJS224	western juniper/big sagebrush/Idaho fescue	JUOC/ARTR2/FEID
602	CJS225	western juniper/big sagebrush/Idaho fescue-lupine	JUOC/ARTR2/FEID-LUPIN
602	CJS236	western juniper/big sagebrush-antelope bitterbrush	JUOC/ARTR2-PUTR2
602	CJS3	western juniper/antelope bitterbrush	JUOC/PUTR2
603	CDS151	Douglas-fir/oceanspray	PSME/HODI
603	CDS252	Douglas-fir/vine maple/salal	PSME/ACCI/GASH
603	CDS253	Douglas-fir/vine maple/Cascade barberry	PSME/ACCI/MANE2
603	CDS254	Douglas-fir/vine maple/common whipplea	PSME/ACCI/WHMO
603	CDS311	Douglas-fir-western hemlock/California hazelnut (steep, shallow soil)	PSME-TSHE/COCOC
603	CFC151	Pacific silver fir-mountain hemlock/common beargrass	ABAM-TSME/XETE
603	CFF152	Pacific silver fir/oneleaf foamflower	ABAM/TITRU
603	CFF251	noble fir/sweet after death	ABPR/ACTR
603	CFF252	Pacific silver fir/sweet after death	ABAM/ACTR
603	CFS251	Pacific silver fir/thinleaf huckleberry/common beargrass	ABAM/VAME/XETE
603	CFS253	Pacific silver fir/oval-leaf blueberry/bunchberry dogwood	ABAM/VAOV/COCA13
603	CFS654	Pacific silver fir/Pacific rhododendron-oval-leaf blueberry/bunchberry dogwood	ABAM/RHMA3-VAOV/COCA13
603	CHC551	western hemlock-Pacific silver fir/Pacific rhododendron-Cascade barberry	TSHE-ABAM/RHMA3-MANE2
603	CHC552	western hemlock-Pacific silver fir/Pacific rhododendron/twinflower	TSHE-ABAM/RHMA3/LIBO3
603	CHC553	western hemlock-Pacific silver fir/twinflower	TSHE-ABAM/LIBO3
603	CHF122	western hemlock/western swordfern	TSHE/POMU
603	CHF124	western hemlock/western swordfern-redwood-sorrel	TSHE/POMU-OXOR
603	CHH351	western hemlock/giant chinquapin	TSHE/CHCHC4
603	CHS222	western hemlock/vine maple/western swordfern	TSHE/ACCI/POMU
603	CHS321	western hemlock/Pacific rhododendron-Cascade barberry	TSHE/RHMA3-MANE2
603	CHS322	western hemlock/Pacific rhododendron-salal	TSHE/RHMA3-GASH
603	CMC151	Alaska cedar/devilsclub	CHNO/OPHO
604	CAG111	subalpine fir-whitebark pine/Geyer's sedge	ABLA-PIAL/CAGE2
604	CDG111	Ponderosa pine-Douglas-fir/Geyer's sedge (Blue Mtns)	PIPO-PSME/CAGE2
604	CDS611	Ponderosa pine-Douglas-fir/common snowberry-oceanspray	PIPO-PSME/SYAL-HODI
604	CDS711	Douglas-fir/mallow ninebark (Blue Mtns)	PSME/PHMA5

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
604	CES311	subalpine fir/thinleaf huckleberry (Blue mountains)	ABLA/VAME
604	CES411	subalpine fir/grouse whortleberry (Blue Mountains)	ABLA/VASC
604	CJG111	western juniper/Idaho fescue-bluebunch wheatgrass	JUOC/FEID-PSSPS
604	CJS111	western juniper/little sagebrush/bluebunch wheatgrass-Idaho fescue	JUOC/ARAR8/PSSP6-FEID
604	CJS211	western juniper/big sagebrush/bluebunch wheatgrass-Idaho fescue	JUOC/ARTR2/PSSP6-FEID
604	CJS811	western juniper/scabland sagebrush (scabland)	JUOC/ARRI2
604	CLG211	lodgepole pine/pinegrass-grouse whortleberry	PICO/CARU-VASC
604	CLS411	lodgepole pine/grouse whortleberry (Blue Mountains)	PICO/VASC
604	CLS511	lodgepole pine/thinleaf huckleberry (Blue Mountains)	PICO/VAME
604	CPG111	ponderosa pine/bluebunch wheatgrass (Blue Mountains)	PIPO/PSSPS
604	CPG112	ponderosa pine/Idaho fescue (Blue Mountains)	PIPO/FEID
604	CPM111	ponderosa pine/blue wildrye	PIPO/ELGL
604	CPS221	ponderosa pine/antelope bitterbrush/Ross' sedge	PIPO/PUTR2/CAR05
604	CWF311	grand fir/twinflower-forb	ABGR/LIB03-2FORB
604	CWG111	Douglas-fir/pinegrass (residual soil)	PSME-ABIES/CARU
604	CWG112	Douglas-fir/pinegrass (ash soil)	PSME-ABIES/CARU
604	CWS211	grand fir/thinleaf huckleberry	ABGR/VAME
604	CWS811	grand fir/grouse whortleberry	ABGR/VASC
604	FS5911	poke knotweed	POPH
604	GB4911	bluebunch wheatgrass-Sandberg bluegrass-onespike danthonia (shallow soil, scabland)	PSSPS-POSE-DAUN
604	GB4912	bluebunch wheatgrass-Idaho fescue (deep soil, gentle slopes)	PSSPS-FEID
604	GB4913	bluebunch wheatgrass-Sandberg bluegrass (shallow soil, steep slopes)	PSSPS-POSE
604	GB4914	bluebunch wheatgrass-Idaho fescue (deep soil, steep slopes)	PSSPS-FEID
604	GB9111	Sandberg bluegrass-onespike danthonia	POSE-DAUN
604	GBB911	biscuit-scabland complex	
604	GS1211	Idaho fescue (subalpine)	FEID
604	GS3911	Geyer's sedge (subalpine)	CAGE2
604	HQM1	quaking aspen/grass (meadow, wetland)	POTR5/2GRAM
604	MD	meadow, dry (water table available part of the growing season)	
604	MM	meadow, moist (water table available all growing season)	
604	MW	meadow, wet (surface moist or wet all growing season)	
604	SD1911	little sagebrush/Idaho fescue-bluebunch wheatgrass	ARAR8/FEID-PSSPS
604	SD2911	mountain big sagebrush/Idaho fescue-bluebunch wheatgrass	ARTRV/FEID-PSSPS
604	SD39	antelope bitterbrush-bluebunch wheatgrass-Idaho fescue	PUTR2-PSSPS-FEID
604	SD49	curl-leaf mountain mahogany	CELE3
604	SD9111	scabland sagebrush/Sandberg bluegrass (scabland)	ARRI2/POSE
604	SDB9	biscuit-scabland (complex)	
604	SM19	mallow ninebark	PHMA5
604	SM29	thinleaf alder (snowslide)	ALINT
604	SM31	common snowberry (shrubland)	SYAL
604	SS4911	mountain big sagebrush/Geyer's sedge	ARTRV/CAGE2
605	CJS112	western juniper/little sagebrush/Idaho fescue	JUOC/ARAR8/FEID
605	CLC111	lodgepole pine-whitebark pine/mountain blue penstemon	PICO-PIAL/PELA7
605	CLC112	lodgepole pine-whitebark pine/King's sandwort	PICO-PIAL/ARKI

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
605	CLG315	lodgepole pine/Virginia strawberry-Idaho fescue	PICO/FRVIP2-FEID
605	CLG415	lodgepole pine/squirreltail-long-stolon sedge	PICO/ELELE-CAIN9
605	CLH111	lodgepole pine-quaking aspen/Virginia strawberry	PICO-POTR5/FRVIP2
605	CPC211	ponderosa pine-western juniper/curl-leaf mountain mahogany-antelope bitterbrush-basin big sagebrush/Idaho fescue	PIPO-JUOC/CELE3-PUTR2-ARTRT/FEID
605	CPF111	ponderosa pine/woolly mule-ears	PIPO/WYMO
605	CPH311	ponderosa pine-quaking aspen/Wheeler bluegrass	PIPO-POTR5/PONE2
605	CPS121	ponderosa pine/mountain big sagebrush/Wheeler bluegrass	PIPO/ARTRV/PONE2
605	CPS211	ponderosa pine/antelope bitterbrush/Idaho fescue (pumice)	PIPO/PUTR2/FEID
605	CPS217	ponderosa pine/antelope bitterbrush-greenleaf manzanita/Idaho fescue (pumice)	PIPO/PUTR2-ARPA6/FEID
605	CWC111	white fir-ponderosa pine-incense cedar/Saskatoon serviceberry	ABCO-PIPO-CADE27/AMAL2
605	CWC311	white fir-lodgepole pine/long-stolon sedge-western needlegrass	ABCO-PICO/CAIN9-ACOCO
605	CWC411	white fir-ponderosa pine-sugar pine/sticky currant	ABCO-PIPO-PILA/RIVI3
605	CWC412	white fir-ponderosa pine-sugar pine/greenleaf manzanita	ABCO-PIPO-PILA/ARPA6
605	CWH211	white fir-ponderosa pine-quaking aspen/long-stolon sedge	ABCO-PIPO-POTR5/CAIN9
605	CWS117	white fir-ponderosa pine/greenleaf manzanita-hollyleaved barberry	ABCO-PIPO/ARPA6-MAAQ2
605	CWS313	white fir-ponderosa pine/common snowberry/tuber starwort	ABCO-PIPO/SYAL/PSJA2
605	MD3111	Kentucky bluegrass (dry meadow)	POPR
605	MM1911	tufted hairgrass-Nebraska sedge (moist meadow)	DECA18-CANE2
605	MW1911	Nebraska sedge-Baltic rush (wet meadow)	CANE2-JUBA
605	SD1913	little sagebrush/Idaho fescue-squirreltail	ARAR8/FEID-ELELE
605	SD2912	basin big sagebrush/bluebunch wheatgrass	ARTRT/PSSPS
605	SD9211	little sagebrush-narrowleaf mock goldenweed/Sandberg bluegrass	ARAR8-STST5/POSE
605	SD9212	little sagebrush/Sandberg bluegrass-onespike danthonia	ARAR8/POSE-DAUN
605	SS4921	little sagebrush/red fescue (alpine)	ARAR8/FERU2
606	CLF111	lodgepole pine/forb	PICO/2FORB
606	CLS413	lodgepole pine/grouse whortleberry/forb	PICO/VASC/2FORB
606	CLS414	lodgepole pine/grouse whortleberry/long-stolon sedge	PICO/VASC/CAIN9
606	CMS111	mountain hemlock/grouse whortleberry	TSME/VASC
606	CPS111	ponderosa pine/antelope bitterbrush-big sagebrush/Idaho fescue	PIPO/PUTR2-ARTR2/FEID
606	CPS211	ponderosa pine/antelope bitterbrush/Idaho fescue	PIPO/PUTR2/FEID
606	CPS212	ponderosa pine/antelope bitterbrush/western needlegrass	PIPO/PUTR2/ACOCO
606	CRG111	Shasta red fir/long-stolon sedge	ABSH/CAIN9
606	CRS112	Shasta red fir-mountain hemlock/pinemat manzanita/long-stolon sedge	ABSH-TSME/ARNE/CAIN9
606	CRS311	Shasta red fir/giant chinquapin/pipsissewa-long-stolon sedge	ABSH/CHCHC4/CHUM-CAIN9
606	CWC215	white fir-Douglas-fir/snowbush ceanothus/kinnikinnick	ABCO-PSME/CEVE/ARUV
606	CWH112	white fir/giant chinquapin-Oregon boxleaf/pipsissewa	ABCO/CHCHC4-PAMY/CHUM

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
606	CWM111	white fir/thinleaf alder (meadow)	ABCO/ALINT
606	CWS116	white fir/snowbrush ceanothus-squawcarpet/Virginia strawberry	ABCO/CEVE-CEPR/FRVI
606	CWS312	white fir/common snowberry/Virginia strawberry	ABCO/SYAL/FRVI
606	SD1913	little sagebrush/Idaho fescue-squirreltail	ARAR8/FEID-ELELE
607	CFC251	Pacific silver fir-western hemlock/Pacific rhododendron-salal	ABAM-TSHE/RHMA3-GASH
607	CFF152	Pacific silver fir/oneleaf foamflower	ABAM/TITRU
607	CFF153	Pacific silver fir/redwood-sorrel	ABAM/OXOR
607	CFS151	Pacific silver fir/Cascade barberry	ABAM/MANE2
607	CFS251	Pacific silver fir/thinleaf huckleberry/common beargrass	ABAM/VAME/XETE
607	CFS253	Pacific silver fir/oval-leaf blueberry/bunchberry dogwood	ABAM/VAOV/COCA13
607	CFS254	Pacific silver fir/rusty menziesia	ABAM/MEFE
607	CFS255	Pacific silver fir/oval-leaf blueberry-salal	ABAM/VAOV-GASH
607	CFS256	Pacific silver fir/thinleaf huckleberry/bride's bonnet	ABAM/VAME/CLUN2
607	CFS351	Pacific silver fir/devilsclub	ABAM/OPHO
607	CFS551	Pacific silver fir/Cascade azalea/common beargrass	ABAM/RHAL2/XETE
607	CFS552	Pacific silver fir/Cascade azalea/bride's bonnet	ABAM/RHAL2/CLUN2
607	CFS651	Pacific silver fir/vine maple/oneleaf foamflower	ABAM/ACCI/TITRU
607	CFS652	Pacific silver fir/Pacific rhododendron-Cascade barberry	ABAM/RHMA3-MANE2
607	CFS653	Pacific silver fir/Pacific rhododendron/common beargrass	ABAM/RHMA3/XETE
607	CFS654	Pacific silver fir/Pacific rhododendron-oval-leaf blueberry/bunchberry dogwood	ABAM/RHMA3-VAOV/COCA13
607	CMS114	mountain hemlock/grouse whortleberry	TSME/VASC
607	CMS216	mountain hemlock/thinleaf huckleberry/common beargrass	TSME/VAME/XETE
608	CFF152	Pacific silver fir/oneleaf foamflower	ABAM/TITRU
608	CFF253	Pacific silver fir/sweet after death-bride's bonnet	ABAM/ACTR-CLUN2
608	CFS151	Pacific silver fir/Cascade barberry	ABAM/MANE2
608	CFS152	Pacific silver fir/salal (Gifford Pinchot)	ABAM/GASH
608	CFS251	Pacific silver fir/thinleaf huckleberry/common beargrass	ABAM/VAME/XETE
608	CFS254	Pacific silver fir/rusty menziesia	ABAM/MEFE
608	CFS255	Pacific silver fir/oval-leaf blueberry-salal	ABAM/VAOV-GASH
608	CFS256	Pacific silver fir/thinleaf huckleberry/bride's bonnet	ABAM/VAME/CLUN2
608	CFS257	Pacific silver fir/oval-leaf blueberry	ABAM/VAOV
608	CFS351	Pacific silver fir/devilsclub	ABAM/OPHO
608	CFS550	Pacific silver fir/Cascade azalea (Gifford Pinchot)	ABAM/RHAL2
608	CMS210	mountain hemlock/thinleaf huckleberry (Gifford Pinchot)	TSME/VAME
608	CMS221	mountain hemlock/rusty menziesia	TSME/MEFE
608	CMS223	mountain hemlock/Cascade azalea	TSME/RHAL2
609	CAC1	subalpine larch	LALY
609	CAG112	whitebark pine/pinegrass	PIAL/CARU
609	CDG123	Douglas-fir/kinnikinnick (Okanogan)	PSME/ARUV
609	CDG131	Douglas-fir/pinegrass (Okanogan and Colville)	PSME/CARU
609	CDG311	ponderosa pine-Douglas-fir/bluebunch wheatgrass	PIPO-PSME/PSSPS
609	CDS411	Douglas-fir/Oregon boxleaf (Okanogan)	PSME/PAMY
609	CDS631	Douglas-fir/kinnikinnick-antelope bitterbrush	PSME/ARUV-PUTR2

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
609	CDS632	Douglas-fir/mountain snowberry (Okanogan and Colville)	PSME/SYOR2
609	CDS633	Douglas-fir/common snowberry	PSME/SYAL
609	CDS715	Douglas-fir/mallow ninebark (Okanogan and Colville)	PSME/PHMA5
609	CDS811	Douglas-fir/blueberry	PSME/VACCI
609	CEF211	subalpine fir/longtube twinflower (Okanogan and Colville)	ABLA/LIBOL2
609	CEG311	subalpine fir/pinegrass (Okanogan and Colville)	ABLA/CARU
609	CEM211	Engelmann spruce/field horsetail	PIEN/EQAR
609	CES111	subalpine fir/Oregon boxleaf (Okanogan)	ABLA/PAMY
609	CES211	subalpine fir/Cascade azalea	ABLA/RHAL2
609	CES312	subalpine fir/blueberry	ABLA/VACCI
609	CES412	subalpine fir/grouse whortleberry (Okanogan and Colville)	ABLA/VASC
609	CES413	subalpine fir/grouse whortleberry/pinegrass (Okanogan)	ABLA/VASC/CARU
609	CES611	subalpine fir/pink mountainheath	ABLA/PHEM
609	CFS258	Pacific silver fir/oval-leaf blueberry	ABAM/VAOV
609	CFS553	Pacific silver fir/Cascade azalea (Okanogan)	ABAM/RHAL2
609	HQG111	quaking aspen/pinegrass	POTR5/CARU
609	HQS211	quaking aspen/common snowberry	POTR5/SYAL
610	CJS212	western juniper/basin big sagebrush/Idaho fescue-bluebunch wheatgrass (N slope)	JUOC/ARTRT/FEID-PSSPS
610	CJS213	western juniper/basin big sagebrush/bluebunch wheatgrass-Sandberg bluegrass (S slope)	JUOC/ARTRT/PSSPS-POSE
610	CJS226	western juniper/basin big sagebrush/bluebunch wheatgrass-Idaho fescue (flat)	JUOC/ARTRT/PSSPS-FEID
610	CJS231	western juniper/basin big sagebrush-rockspirea/bluebunch wheatgrass-arrowleaf balsamroot (steep canyon)	JUOC/ARTRT-HODU/PSSPS-BASA3
610	CJS232	western juniper/basin big sagebrush-yellow rabbitbrush/Idaho fescue-arrowleaf balsamroot (steep N canyon)	JUOC/ARTRT-CHV18/FEID-BASA3
610	CJS291	western juniper/rubber rabbitbrush-basin big sagebrush/crested wheatgrass	JUOC/ERNAN5-ARTRT/AGCR
610	CJS292	western juniper/rubber rabbitbrush-basin big sagebrush/beardless wheatgrass	JUOC/ERNAN5-ARTRT/PSSPI
610	CJSB11	western juniper/basin big sagebrush/bluebunch wheatgrass-Idaho fescue (mound)	JUOC/ARTRT/PSSPS-FEID
610	CPS211	ponderosa pine/antelope bitterbrush/Idaho fescue (pumice)	PIPO/PUTR2/FEID
610	SD9131	scabland sagebrush/Sandberg bluegrass-bigseed biscuitroot (scabland)	ARRI2/POSE-LOMA3
611	CDS612	mixed conifer/common snowberry/twinflower (flatlands)	2TE/SYAL/LIBO3
611	CDS613	mixed conifer/common snowberry/forb	2TE/SYAL/2FORB
611	CDS614	mixed conifer/common snowberry/pinegrass	2TE/SYAL/CARU
611	CJS311	western juniper/antelope bitterbrush/bluebunch wheatgrass-Idaho fescue	JUOC/PUTR2/PSSPS-FEID
611	CLG311	lodgepole pine/western needlegrass (basins, pumice)	PICO/ACOCO
611	CLG313	lodgepole pine/western needlegrass-tailcup lupine-Nuttall's linanthus	PICO/ACOCO-LUCA-LINU3
611	CLG314	lodgepole pine/western needlegrass-tailcup lupine (pumice)	PICO/ACOCO-LUCA
611	CLG411	lodgepole pine/long-stolon sedge-tailcup lupine (pumice)	PICO/CAIN9-LUCA
611	CLG412	lodgepole pine/long-stolon sedge-tailcup lupine-beardtongue	PICO/CAIN9-LUCA-PENST
611	CLG413	lodgepole pine/long-stolon sedge-western needlegrass (basins, pumice)	PICO/CAIN9-ACOCO

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
611	CLM111	lodgepole pine/Nebraska sedge-blue wildrye (wetland)	PICO/CANE2-ELGL
611	CLM211	lodgepole pine/kinnikinnick (pumice)	PICO/ARUV
611	CLM311	lodgepole pine/bog blueberry-forb (pumice)	PICO/VAUL-2FORB
611	CLM411	lodgepole pine/common beargrass (pumice)	PICO/XETE
611	CLS111	lodgepole pine/big sagebrush/Idaho fescue (pumice)	PICO/ARTR2/FEID
611	CLS112	lodgepole pine/big sagebrush (rhyolite, pumice)	PICO/ARTR2
611	CLS211	lodgepole pine/antelope bitterbrush/western needlegrass (pumice)	PICO/PUTR2/ACOCO
611	CLS212	lodgepole pine/antelope bitterbrush/long-stolon sedge (pumice)	PICO/PUTR2/CAIN9
611	CLS213	lodgepole pine/antelope bitterbrush/forb (pumice)	PICO/PUTR2/2FORB
611	CLS214	lodgepole pine/antelope bitterbrush/Idaho fescue (pumice)	PICO/PUTR2/FEID
611	CLS215	lodgepole pine/wax currant-antelope bitterbrush/western needlegrass (pumice)	PICO/RICE-PUTR2/ACOCO
611	CLS216	lodgepole pine/antelope bitterbrush (rhyolite)	PICO/PUTR2
611	CLS311	lodgepole pine/pinemat manzanita	PICO/ARNE
611	CLS412	lodgepole pine/grouse whortleberry (pumice)	PICO/VASC
611	CLS911	lodgepole pine/snowbrush ceanothus-greenleaf manzanita (pumice)	PICO/CEVE-ARPA6
611	CMS111	mountain hemlock/grouse whortleberry	TSME/VASC
611	CPF111	ponderosa pine/woolly mule-ears	PIPO/WYMO
611	CPG212	ponderosa pine/long-stolon sedge-Idaho fescue-Nevada pea	PIPO/CAIN9-FEID-LALA3
611	CPS111	ponderosa pine/antelope bitterbrush-big sagebrush/Idaho fescue	PIPO/PUTR2-ARTR2/FEID
611	CPS112	ponderosa pine/antelope bitterbrush-big sagebrush/squirreltail (rhyolite)	PIPO/PUTR2-ARTR2/ELELE
611	CPS211	ponderosa pine/antelope bitterbrush/Idaho fescue (pumice)	PIPO/PUTR2/FEID
611	CPS212	ponderosa pine/antelope bitterbrush/western needlegrass (pumice)	PIPO/PUTR2/ACOCO
611	CPS213	ponderosa pine/antelope bitterbrush-greenleaf manzanita/western needlegrass (pumice)	PIPO/PUTR2-ARPA6/ACOCO
611	CPS214	ponderosa pine/antelope bitterbrush-greenleaf manzanita/long-stolon sedge (pumice)	PIPO/PUTR2-ARPA6/CAIN9
611	CPS215	ponderosa pine/antelope bitterbrush/long-stolon sedge (pumice)	PIPO/PUTR2/CAIN9
611	CPS216	ponderosa pine/antelope bitterbrush/Idaho fescue-bluebunch wheatgrass (pumice)	PIPO/PUTR2/FEID-PSSPS
611	CPS217	ponderosa pine/antelope bitterbrush-greenleaf manzanita/Idaho fescue (pumice)	PIPO/PUTR2-ARPA6/FEID
611	CPS218	ponderosa pine/antelope bitterbrush/squirreltail (rhyolite)	PIPO/PUTR2/ELELE
611	CPS311	ponderosa pine/antelope bitterbrush-snowbrush ceanothus/western needlegrass	PIPO/PUTR2-CEVE/ACOCO
611	CPS312	ponderosa pine/antelope bitterbrush-snowbrush ceanothus/long-stolon sedge	PIPO/PUTR2-CEVE/CAIN9
611	CPS314	ponderosa pine/antelope bitterbrush-snowbrush ceanothus/Idaho fescue	PIPO/PUTR2-CEVE/FEID
611	CRS111	mixed conifer/pinemat manzanita	2TE/ARNE
611	CWC211	mixed conifer/snowbrush ceanothus-giant chinquapin/western brackenfern	2TE/CEVE-CHCHC4/PTAQ

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
611	CWC212	mixed conifer/snowbrush ceanothus-giant chinquapin/pinegrass	2TE/CEVE-CHCHC4/CARU
611	CWC213	mixed conifer/snowbrush ceanothus/long-stolon sedge-hairy brackenfern	2TE/CEVE/CAIN9-PTAQP2
611	CWH111	mixed conifer/snowbrush ceanothus-giant chinquapin	2TE/CEVE-CHCHC4
611	CWS112	mixed conifer/snowbrush ceanothus-greenleaf manzanita (pumice)	2TE/CEVE-ARPA6
611	CWS113	mixed conifer/snowbrush ceanothus-greenleaf manzanita/long-stolon sedge-glaucus beardtongue	2TE/CEVE-ARPA6/CAIN9-PEEU
611	CWS114	mixed conifer/snowbrush ceanothus (pumice)	2TE/CEVE
611	CWS115	mixed conifer/snowbrush ceanothus/long-stolon sedge	2TE/CEVE/CAIN9
611	CWS911	Engelmann spruce (bottomlands)	PIEN
611	GB99	Sandberg bluegrass-onespike danthonia (scabland)	POSE-DAUN
611	MD1911	meadow, dry	
611	MM19	meadow, moist (tufted hairgrass)	DECA18
611	MM90	meadow, moist (bluegrass)	POA
611	MW	meadow, wet (surface moist or wet all growing season)	
611	SD1912	little sagebrush/Idaho fescue	ARAR8/FEID
611	SD2912	basin big sagebrush/bluebunch wheatgrass	ARTRT/PSSPS
611	SD2913	big sagebrush-antelope bitterbrush/Idaho fescue-bluebunch wheatgrass	ARTR2-PUTR2/FEID-PSSPS
611	SD2914	big sagebrush/western needlegrass (rhyolite pumice)	ARTR2/ACOCO
611	SD3311	antelope bitterbrush/western needlegrass-long-stolon sedge	PUTR2/ACOCO-CAIN9
611	SD9323	sulphur-flower buckwheat/stipa (flats, rhyolite pumice)	ERUM/STIPA
612	CHF121	western hemlock/redwood-sorrel (coastal)	TSHE/OXOR
612	CHF122	western hemlock/western swordfern (coastal)	TSHE/POMU
612	CHS121	western hemlock/Cascade barberry (coastal)	TSHE/MANE2
612	CHS122	western hemlock/Cascade barberry-salal (coastal)	TSHE/MANE2-GASH
612	CHS123	western hemlock/salal (coastal)	TSHE/GASH
612	CHS221	western hemlock/vine maple-salal (coastal)	TSHE/ACCI-GASH
612	CHS222	western hemlock/vine maple/western swordfern (coast)	TSHE/ACCI/POMU
612	CHS321	western hemlock/Pacific rhododendron-Cascade barberry (coast)	TSHE/RHMA3-MANE2
612	CHS322	western hemlock/Pacific rhododendron-salal (coast)	TSHE/RHMA3-GASH
612	CHS323	western hemlock/Pacific rhododendron/western swordfern (coast)	TSHE/RHMA3/POMU
612	CHS324	western hemlock/Pacific rhododendron-California huckleberry (coast)	TSHE/RHMA3-VAOV2
612	CHS421	western hemlock/salmonberry (coastal)	TSHE/RUSP
612	CHS422	western hemlock/salmonberry-vine maple (coast)	TSHE/RUSP-ACCI
612	CHS423	western hemlock/salmonberry-salal (coastal)	TSHE/RUSP-GASH
612	CHS521	western hemlock/devilsclub (coastal)	TSHE/OPHO
612	CHS610	western hemlock/California huckleberry (coastal)	TSHE/VAOV2
612	CSF121	Sitka spruce/western swordfern	PISI/POMU
612	CSF321	Sitka spruce/redwood-sorrel	PISI/OXOR
612	CSS221	Sitka spruce/rusty menziesia-red huckleberry	PISI/MEFE-VAPA
612	CSS321	Sitka spruce/salal	PISI/GASH
612	CSS521	Sitka spruce/salmonberry	PISI/RUSP
612	CSS522	Sitka spruce/salmonberry-salal	PISI/RUSP-GASH

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
612	CSS621	Sitka spruce/devilsclub	PISI/OPHO
613	CHC212	western hemlock-Douglas-fir/oceanspray	TSHE-PSME/HODI
613	CHC213	western hemlock-Douglas-fir-Pacific madrone	TSHE-PSME-ARME
613	CHF124	western hemlock/western swordfern-redwood-sorrel	TSHE/POMU-OXOR
613	CHF125	western hemlock/western swordfern	TSHE/POMU
613	CHF221	western hemlock/sweet after death	TSHE/ACTR
613	CHF222	western hemlock/threeleaf foamflower	TSHE/TITR
613	CHF421	western hemlock/common ladyfern	TSHE/ATFI
613	CHM121	western hemlock/American skunkcabbage	TSHE/LYAM3
613	CHS125	western hemlock/Cascade barberry	TSHE/MANE2
613	CHS126	western hemlock/Cascade barberry/western swordfern	TSHE/MANE2/POMU
613	CHS127	western hemlock/Cascade barberry-salal	TSHE/MANE2-GASH
613	CHS128	western hemlock/salal	TSHE/GASH
613	CHS224	western hemlock/Pacific dogwood/sweet after death	TSHE/CONU4/ACTR
613	CHS524	western hemlock/devilsclub/western swordfern	TSHE/OPHO/POMU
613	CHS613	western hemlock/oval-leaf blueberry/redwood-sorrel	TSHE/VAOV/OXOR
613	CHS614	western hemlock/oval-leaf blueberry-salal	TSHE/VAOV-GASH
613	CHS615	western hemlock/oval-leaf blueberry/bunchberry dogwood	TSHE/VAOV/COCA1 3
614	CHC212	western hemlock-Douglas-fir/oceanspray	TSHE-PSME/HODI
614	CHF123	western hemlock/western swordfern	TSHE/POMU
614	CHF124	western hemlock/western swordfern-redwood-sorrel	TSHE/POMU-OXOR
614	CHF221	western hemlock/sweet after death	TSHE/ACTR
614	CHM121	western hemlock/American skunkcabbage	TSHE/LYAM3
614	CHS124	western hemlock/Cascade barberry-salal	TSHE/MANE2-GASH
614	CHS125	western hemlock/Cascade barberry	TSHE/MANE2
614	CHS126	western hemlock/Cascade barberry/western swordfern	TSHE/MANE2/POMU
614	CHS223	western hemlock/vine maple/sweet after death	TSHE/ACCI/ACTR
614	CHS325	western hemlock/Pacific rhododendron/common beargrass	TSHE/RHMA3/XETE
614	CHS326	western hemlock/Pacific rhododendron-oval-leaf blueberry/bunchberry dogwood	TSHE/RHMA3- VAOV/COCA13
614	CHS327	western hemlock/Pacific rhododendron-salal	TSHE/RHMA3-GASH
614	CHS328	western hemlock/Pacific rhododendron-Cascade barberry	TSHE/RHMA3- MANE2
614	CHS522	western hemlock/devilsclub/redwood-sorrel	TSHE/OPHO/OXOR
614	CHS523	western hemlock/devilsclub/starry false lily of the valley	TSHE/OPHO/MAST4
614	CHS611	western hemlock/oval-leaf blueberry-devilsclub	TSHE/VAOV-OPHO
614	CHS612	western hemlock/thinleaf huckleberry/common beargrass	TSHE/VAME/XETE
614	CHS613	western hemlock/oval-leaf blueberry/redwood-sorrel	TSHE/VAOV/OXOR
614	CHS614	western hemlock/oval-leaf blueberry-salal	TSHE/VAOV-GASH
614	CHS615	western hemlock/oval-leaf blueberry/bunchberry dogwood	TSHE/VAOV/COCA1 3
615	CDG121	Douglas-fir/pinegrass	PSME/CARU
615	CDS622	Douglas-fir/common snowberry	PSME/SYAL
615	CDS623	Douglas-fir/mountain snowberry	PSME/SYOR2
615	CDS634	Douglas-fir/white spirea	PSME/SPBE2
615	CDS711	Douglas-fir/mallow ninebark	PSME/PHMA5
615	CDS722	Douglas-fir/Rocky Mountain maple-mallow ninebark	PSME/ACGL-PHMA5
615	CDS812	Douglas-fir/thinleaf huckleberry	PSME/VAME

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
615	CEF221	subalpine fir/twinflower	ABLA/LIBO3
615	CEF311	subalpine fir/claspleaf twistedstalk	ABLA/STAM2
615	CEF411	subalpine fir/Jacob's-ladder	ABLA/POPU3
615	CEG312	subalpine fir/pinegrass	ABLA/CARU
615	CES131	subalpine fir/bride's bonnet	ABLA/CLUN2
615	CES221	subalpine fir/rusty menziesia	ABLA/MEFE
615	CES315	subalpine fir/thinleaf huckleberry	ABLA/VAME
615	CES415	subalpine fir/grouse whortleberry/Jacob's-ladder	ABLA/VASC/POPU3
615	CJG111	western juniper/Idaho fescue-bluebunch wheatgrass	JUOC/FEID-PSSPS
615	CLF211	lodgepole pine/twinflower	PICO/LIBO3
615	CLS415	lodgepole pine/grouse whortleberry/Jacob's ladder	PICO/VASC/POPU3
615	CLS515	lodgepole pine/thinleaf huckleberry	PICO/VAME
615	CMS131	mountain hemlock/grouse whortleberry	TSME/VASC
615	CMS231	mountain hemlock/thinleaf huckleberry	TSME/VAME
615	CPG131	ponderosa pine/Idaho fescue	PIPO/FEID
615	CPG132	ponderosa pine/bluebunch wheatgrass	PIPO/PSSPS
615	CPS231	ponderosa pine/antelope bitterbrush/bluebunch wheatgrass	PIPO/PUTR2/PSSPS
615	CPS522	ponderosa pine/common snowberry	PIPO/SYAL
615	CPS523	ponderosa pine/white spirea	PIPO/SPBE2
615	CWF311	grand fir/twinflower	ABGR/LIBO3
615	CWF421	grand fir/bride's bonnet	ABGR/CLUN2
615	CWF422	grand fir/Pacific yew/bride's bonnet	ABGR/TABR2/CLUN 2
615	CWF511	grand fir/Idaho goldthread	ABGR/COOC
615	CWG112	grand fir/pinegrass	ABGR/CARU
615	CWS211	grand fir/thinleaf huckleberry	ABGR/VAME
615	CWS321	grand fir/white spirea	ABGR/SPBE2
615	CWS412	grand fir/Rocky Mountain maple-mallow ninebark	ABGR/ACGL-PHMA5
615	CWS912	grand fir/Rocky Mountain maple	ABGR/ACGL
615	FM9111	Douglas' buckwheat/Sandberg bluegrass	ERDO/POSE
615	FM9112	Blue Mountain buckwheat/Sandberg bluegrass	ERST4/POSE
615	FM9113	sulphur-flower buckwheat	ERUME
615	FW	meadow, ridgetops	
615	FW3911	Cusick's camas	CACU2
615	FX4111	Wallowa lewisia	LECOW
615	GB1211	sand dropseed (river terrace)	SPCR
615	GB1911	bluebunch wheatgrass-sand dropseed-Fendler threeawn	PSSPS-SPCR-ARPUL
615	GB4111	bluebunch wheatgrass-parsnipflower buckwheat	PSSPS-ERHE2
615	GB4112	bluebunch wheatgrass-Sandberg bluegrass-narrowleaf skullcap	PSSPS-POSE-SCAN3
615	GB4113	bluebunch wheatgrass-Sandberg bluegrass (basalt)	PSSPS-POSE
615	GB4114	bluebunch wheatgrass-Sandberg bluegrass-Cusick's milkvetch	PSSPS-POSE-ASCU5
615	GB4115	bluebunch wheatgrass-Sandberg bluegrass-shaggy fleabane	PSSPS-POSE-ERPU2
615	GB4116	bluebunch wheatgrass-Sandberg bluegrass (granite)	PSSPS-POSE
615	GB4117	bluebunch wheatgrass-Sandberg bluegrass-Snake River phlox	PSSPS-POSE-PHCO10
615	GB4118	bluebunch wheatgrass-Sandberg bluegrass-plains pricklypear	PSSPS-POSE-OPPO
615	GB4911	bluebunch wheatgrass-Sandberg bluegrass (scabland)	PSSPS-POSE
615	GB5121	common snowberry/Idaho fescue-bluebunch wheatgrass/silky lupine	SYAL/FEID- PSSPS/LUSE4
615	GB5911	Idaho fescue-prairie Junegrass (ridgetops)	FEID-KOMA

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
615	GB5912	Idaho fescue-prairie Junegrass (mounds)	FEID-KOMA
615	GB5913	Idaho fescue-prairie Junegrass (high elevation)	FEID-KOMA
615	GB5914	Idaho fescue-prairie Junegrass (low elevation)	FEID-KOMA
615	GB5915	Idaho fescue-bluebunch wheatgrass (ridgetops)	FEID-PSSPS
615	GB5916	Idaho fescue-bluebunch wheatgrass-silky lupine	FEID-PSSPS-LUSE4
615	GB5917	Idaho fescue-bluebunch wheatgrass-arrowleaf balsamroot	FEID-PSSPS-BASA3
615	GB5918	Idaho fescue-bluebunch wheatgrass-Snake River phlox	FEID-PSSPS-PHCO10
615	GB5919	common snowberry/Idaho fescue-prairie Junegrass	SYAL/FEID-KOMA
615	GB5920	Idaho fescue-timber oatgrass-sedge	FEID-DAIN-CAREX
615	GB5921	Idaho fescue-Hood's sedge	FEID-CAHO5
615	GB5922	Idaho fescue-Geyer's sedge	FEID-CAGE2
615	GB7111	basin wildrye	LECI4
615	GB9111	Sandberg bluegrass-onespike danthonia	POSE-DAUN
615	GS1111	greenleaf fescue-Hood's sedge	FEVI-CAHO5
615	GS1112	greenleaf fescue-silvery lupine	FEVI-LUARL5
615	HQG1	quaking aspen	POTR5
615	MD3112	Snake River Degenerated Bench	
615	MM1921	tufted hairgrass-sedge (moist meadow)	DECA18-CAREX
615	MM1922	tufted hairgrass-sedge (wet meadow)	DECA18-CAREX
615	MW19	sedge (tall, wet meadow)	CAREX
615	NTS111	Lewis' mock orange (talus strips)	PHLE4
615	SD2911	mountain big sagebrush/Idaho fescue	ARTRV/FEID
615	SD2915	mountain big sagebrush/Geyer's sedge	ARTRV/CAGE2
615	SD2916	mountain big sagebrush-antelope bitterbrush/Idaho fescue	ARTRV-PUTR2/FEID
615	SD2917	mountain big sagebrush-mountain snowberry-California brome	ARTRV-SYOR2-BRCA5
615	SD30	squaw apple-mountain snowberry	PERA4-SYOR2
615	SD3111	antelope bitterbrush/Idaho fescue-bluebunch wheatgrass	PUTR2/FEID-PSSPS
615	SD3112	antelope bitterbrush/bluebunch wheatgrass	PUTR2/PSSPS
615	SD49	curl-leaf mountain mahogany	CELE3
615	SD5611	netleaf hackberry/bluebunch wheatgrass	CELAR/PSSPS
615	SD6121	smooth sumac/bluebunch wheatgrass	RHGL/PSSPS
615	SD65	spiny greasebush/bluebunch wheatgrass	GLSPA/PSSPS
615	SD9111	scabland sagebrush/Sandberg bluegrass	ARRI2/POSE
615	SD9322	buckwheat/Oregon twinpod	ERIOG/PHOR2
615	SM19	mallow ninebark/common snowberry	PHMA5/SYAL
615	SM3111	common snowberry-rose	SYAL/ROSA5
615	SM32	mountain snowberry	SYOR2
616	CDC711	Douglas-fir-western hemlock/Cascade barberry	PSME-TSHE/MANE2
616	CDC712	Douglas-fir-western hemlock/Pacific rhododendron	PSME-TSHE/RHMA3
616	CDC713	Douglas-fir-western hemlock/salal	PSME-TSHE/GASH
616	CDS211	Douglas-fir/oceanspray-Cascade barberry	PSME/HODI-MANE2
616	CDS212	Douglas-fir/oceanspray/grass	PSME/HODI/2GRAM
616	CDS213	Douglas-fir/oceanspray-common whipplea	PSME/HODI-WHMO
616	CDS641	Douglas-fir/creeping snowberry	PSME/SYMO
616	CFC251	Pacific silver fir-western hemlock/Pacific rhododendron-salal	ABAM-TSHE/RHMA3-GASH
616	CFC311	Pacific silver fir-grand fir/starry false lily of the valley	ABAM-ABGR/MAST4
616	CFF152	Pacific silver fir/oneleaf foamflower	ABAM/TITRU

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
616	CFF153	Pacific silver fir/redwood-sorrel	ABAM/OXOR
616	CFS151	Pacific silver fir/Cascade barberry	ABAM/MANE2
616	CFS251	Pacific silver fir/thinleaf huckleberry/common beargrass	ABAM/VAME/XETE
616	CFS253	Pacific silver fir/oval-leaf blueberry/bunchberry dogwood	ABAM/VAOV/COCA13
616	CFS254	Pacific silver fir/rusty menziesia	ABAM/MEFE
616	CFS255	Pacific silver fir/oval-leaf blueberry-salal	ABAM/VAOV-GASH
616	CFS256	Pacific silver fir/thinleaf huckleberry/bride's bonnet	ABAM/VAME/CLUN2
616	CFS351	Pacific silver fir/devilsclub	ABAM/OPHO
616	CFS551	Pacific silver fir/Cascade azalea/common beargrass	ABAM/RHAL2/XETE
616	CFS552	Pacific silver fir/Cascade azalea/bride's bonnet	ABAM/RHAL2/CLUN2
616	CFS651	Pacific silver fir/vine maple/oneleaf foamflower	ABAM/ACCI/TITRU
616	CFS652	Pacific silver fir/Pacific rhododendron-Cascade barberry	ABAM/RHMA3-MANE2
616	CFS653	Pacific silver fir/Pacific rhododendron/common beargrass	ABAM/RHMA3/XETE
616	CFS654	Pacific silver fir/Pacific rhododendron-oval-leaf blueberry/bunchberry dogwood	ABAM/RHMA3-VAOV/COCA13
616	CHF111	western hemlock/redwood-sorrel (Willamette)	TSHE/OXOR
616	CHF151	western hemlock/western swordfern (Willamette)	TSHE/POMU
616	CHF221	western hemlock/sweet after death	TSHE/ACTR
616	CHF321	western hemlock/twinflower	TSHE/LIBO3
616	CHS111	western hemlock/salal (Willamette)	TSHE/GASH
616	CHS113	western hemlock/Cascade barberry/redwood-sorrel	TSHE/MANE2/OXOR
616	CHS114	western hemlock/Cascade barberry/sweet after death	TSHE/MANE2/ACTR
616	CHS124	western hemlock/Cascade barberry-salal	TSHE/MANE2-GASH
616	CHS125	western hemlock/Cascade barberry	TSHE/MANE2
616	CHS326	western hemlock/Pacific rhododendron-oval-leaf blueberry/bunchberry dogwood	TSHE/RHMA3-VAOV/COCA13
616	CHS351	western hemlock/Pacific rhododendron-salal (Willamette)	TSHE/RHMA3-GASH
616	CHS352	western hemlock/Pacific rhododendron-Cascade barberry (Willamette)	TSHE/RHMA3-MANE2
616	CHS353	western hemlock/Pacific rhododendron/common beargrass (Willamette)	TSHE/RHMA3/XETE
616	CHS354	western hemlock/Pacific rhododendron/redwood-sorrel	TSHE/RHMA3/OXOR
616	CHS355	western hemlock/Pacific rhododendron/twinflower	TSHE/RHMA3/LIBO3
616	CHS511	western hemlock/devilsclub (Willamette)	TSHE/OPHO
616	CHS615	western hemlock/oval-leaf blueberry/bunchberry dogwood	TSHE/VAOV/COCA13
616	CMG211	mountain hemlock/woodrush	TSME/LUZUL
616	CMS114	mountain hemlock/grouse whortleberry	TSME/VASC
616	CMS216	mountain hemlock/thinleaf huckleberry/common beargrass	TSME/VAME/XETE
616	CMS612	mountain hemlock/Pacific rhododendron	TSME/RHMA3
616	CWF211	grand fir/pipsissewa	ABGR/CHUM
616	CWS521	grand fir/kinnikinnick	ABGR/ARUV
616	CWS522	grand fir/Cascade barberry	ABGR/MANE2
616	FM2911	common beargrass-red fescue	XETE-FERU2
616	FM3011	garden vetch-subalpine fleabane-blue wildrye	VISA-ERPE3-ELGL
616	FM9911	common woolly sunflower-varileaf phacelia	ERLA6-PHHE2

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
616	FW5111	false hellebore-common cowparsnip	VERAT-HEMA80
616	GM4121	blue wildrye-bromegrass	ELGL-BROMU
616	MM3911	sedge-Howell's marsh marigold	CAREX-CALEH2
616	MT1911	sedge-panicled bulrush (hydric)	CAREX-SCMI2
616	NCS111	shrub (lava flows)	2SHRUB
616	NRL911	rock garden (steep, xeric)	
616	NRL912	rock garden (steep, moist)	
616	NRR911	rock graden (flat, xeric)	
616	NTS211	vine maple (talus)	ACCI
616	NTS911	talus	
616	SM5911	thimbleberry/poke knotweed	RUPA/POPH
616	SM8111	Sitka alder (rocky soil)	ALVIS
616	SM8112	vine maple (rocky soil)	ACCI
616	SW4121	blueberry-rose meadowsweet/grass	VACCI- SPSPS/2GRAM
616	SW4122	rose spirea-bog blueberry/sedge	SPDO-VAUL/CAREX
616	SW4123	spirea-willow/sedge	SPIRA-SALIX/CAREX
617	CEM111	Engelmann spruce/widefruit sedge	PIEN/CAAN15
617	CEM221	Engelmann spruce/field horsetail-twistedstalk	PIEN/EQAR-STREP3
617	CEM222	Engelmann spruce/bride's bonnet	PIEN/CLUN2
617	CEM311	Engelmann spruce/bog blueberry/forb	PIEN/VAUL/2FORB
617	CEM312	Engelmann spruce/bog blueberry/widefruit sedge	PIEN/VAUL/CAAN15
617	CLM112	lodgepole pine/Kentucky bluegrass	PICO/POPR
617	CLM113	lodgepole pine/widefruit sedge	PICO/CAAN15
617	CLM114	lodgepole pine/water sedge	PICO/CAAQ
617	CLM211	lodgepole pine/kinnikinnick	PICO/ARUV
617	CLM311	lodgepole pine/bog blueberry-forb	PICO/VAUL-2FORB
617	CLM312	lodgepole pine/bog blueberry/widefruit sedge	PICO/VAUL/CAAN15
617	CLM313	lodgepole pine/rose spirea/forb	PICO/SPDO/2FORB
617	CLM314	lodgepole pine/rose spirea/widefruit sedge	PICO/SPDO/CAAN15
617	CLM911	lodgepole pine-Engelmann spruce/fewflower spikerush	PICO-PIEN/ELQU2
617	CPS511	ponderosa pine/common snowberry (floodplain)	PIPO/SYAL
617	CWF431	white fir/bride's bonnet	ABCO/CLUN2
617	FW4111	Bride's bonnet-gray alder	CLUN2/ALIN2
617	FW4211	arrowleaf ragwort	SETR
617	HQM121	quaking aspen/blue wildrye	POTR5/ELGL
617	HQM411	quaking aspen-lodgepole pine/rose spirea/widefruit sedge	POTR5- PICO/SPDO/CAAN15
617	HQS221	quaking aspen/common snowberry/blue wildrye	POTR5/SYAL/ELGL
617	MD1911	Cusick's bluegrass	POCU3
617	MD3111	Kentucky bluegrass	POPR
617	MM1912	tufted hairgrass	DECA18
617	MM2911	woolly sedge	CAPE42
617	MM2912	Nebraska sedge	CANE2
617	MM2913	widefruit sedge	CAAN15
617	MM2914	water sedge	CAAQ
617	MM2915	analogue sedge	CASI2
617	MS1111	Brewer's sedge	CABR12
617	MS2111	black alpine sedge	CANI2

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
617	MS2112	broom sedge-black alpine sedge-tufted hairgrass	CASC11-CANI2-DECA18
617	MS3111	mountain sedge	CASC12
617	MW1921	panicled bulrush-bigleaf sedge	SCMI2-CAAM10
617	MW1922	Sitka sedge	CAAQD
617	MW1923	blister sedge	CAVE6
617	MW1924	beaked sedge	CARO6
617	MW2911	woollyfruit sedge	CALA11
617	MW4911	fewflower spikerush	ELQU2
617	MW4912	common spikerush	ELPA3
617	SD2311	big sagebrush-silver sagebrush/Cusick's bluegrass	ARTR2-ARCA13/POCU3
617	SS1911	pink mountainheath	PHEM
617	SW1111	willow/Kentucky bluegrass	SALIX/POPR
617	SW1112	willow/woolly sedge	SALIX/CAPE42
617	SW1113	willow/widefruit sedge	SALIX/CAAN15
617	SW1114	willow/water sedge	SALIX/CAAQ
617	SW1115	willow/Sitka sedge	SALIX/CAAQD
617	SW1116	willow/beaked sedge	SALIX/CARO6
617	SW2211	gray alder/common snowberry	ALIN2/SYAL
617	SW2212	gray alder/rose spirea	ALIN2/SPDO
617	SW2213	gray alder (spring)	ALIN2
617	SW2911	gray alder	ALIN2
617	SW4111	bog blueberry/Sitka sedge	VAUL/CAAQD
617	SW4112	bog blueberry/fewflower spikerush	VAUL/ELQU2
618	CDS221	Douglas-fir/oceanspray-dwarf rose	PSME/HODI-ROGY
618	CDS255	Douglas-fir/salal	PSME/GASH
618	CDS651	Douglas-fir/kinnikinnick	PSME/ARUV
618	CEF321	subalpine fir/broadleaf lupine	ABLA/LULA4
618	CES212	subalpine fir/Cascade azalea (Olympic)	ABLA/RHAL2
618	CES321	subalpine fir/thinleaf huckleberry (Olympic)	ABLA/VAME
618	CES621	subalpine fir/common juniper	ABLA/JUCO6
618	CFF111	Pacific silver fir/redwood-sorrel (Olympic)	ABAM/OXOR
618	CFF211	Pacific silver fir/sweet after death-oneleaf foamflower	ABAM/ACTR-TITRU
618	CFF311	Pacific silver fir/common beargrass	ABAM/XETE
618	CFF611	Pacific silver fir/western swordfern	ABAM/POMU
618	CFF612	Pacific silver fir/western swordfern-redwood-sorrel	ABAM/POMU-OXOR
618	CFF911	Pacific silver fir (depauperate)	ABAM
618	CFM111	Pacific silver fir/American skunkcabbage	ABAM/LYAM3
618	CFS154	Pacific silver fir/salal (Olympic)	ABAM/GASH
618	CFS155	Pacific silver fir/salal/deer fern	ABAM/GASH/BLSP
618	CFS156	Pacific silver fir/salal/redwood-sorrel	ABAM/GASH/OXOR
618	CFS211	Pacific silver fir/thinleaf huckleberry/common beargrass (Olympic)	ABAM/VAME/XETE
618	CFS212	Pacific silver fir/oval-leaf blueberry (Olympic)	ABAM/VAOV
618	CFS213	Pacific silver fir/oval-leaf blueberry/white avalanche-lily	ABAM/VAOV/ERMO8
618	CFS214	Pacific silver fir/oval-leaf blueberry/common beargrass (Olympic)	ABAM/VAOV/XETE

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
618	CFS215	Pacific silver fir/oval-leaf blueberry/oneleaf foamflower	ABAM/VAOV/TITRU
618	CFS216	Pacific silver fir/oval-leaf blueberry-Cascade barberry	ABAM/VAOV-MANE2
618	CFS217	Pacific silver fir/oval-leaf blueberry/redwood-sorrel	ABAM/VAOV/OXOR
618	CFS218	Pacific silver fir/oval-leaf blueberry/bride's bonnet	ABAM/VAOV/CLUN2
618	CFS219	Pacific silver fir/oval-leaf blueberry/twinflower	ABAM/VAOV/LIBO3
618	CFS220	Pacific silver fir/oval-leaf blueberry-Cascade azalea	ABAM/VAOV-RHAL2
618	CFS311	Pacific silver fir/devilsclub (Olympic)	ABAM/OPHO
618	CFS611	Pacific silver fir/Pacific rhododendron (Olympic)	ABAM/RHMA3
618	CFS612	Pacific silver fir/Pacific rhododendron-oval-leaf blueberry	ABAM/RHMA3-VAOV
618	CHF112	western hemlock/redwood-sorrel (Olympic)	TSHE/OXOR
618	CHF131	western hemlock/western swordfern-redwood-sorrel (Olympic)	TSHE/POMU-OXOR
618	CHF132	western hemlock/western swordfern-threelaf foamflower	TSHE/POMU-TITR
618	CHF211	western hemlock/sweet after death (Olympic)	TSHE/ACTR
618	CHF511	western hemlock/common beargrass (Olympic)	TSHE/XETE
618	CHF911	western hemlock/depauperate	TSHE
618	CHM111	western hemlock/American skunkcabbage (Olympic)	TSHE/LYAM3
618	CHS131	western hemlock/salal (Olympic)	TSHE/GASH
618	CHS132	western hemlock/salal/common beargrass	TSHE/GASH/XETE
618	CHS133	western hemlock/salal-California huckleberry	TSHE/GASH-VAOV2
618	CHS134	western hemlock/salal-oceanspray	TSHE/GASH-HODI
618	CHS135	western hemlock/salal-Cascade barberry	TSHE/GASH-MANE2
618	CHS136	western hemlock/salal/redwood-sorrel	TSHE/GASH/OXOR
618	CHS137	western hemlock/salal/western swordfern	TSHE/GASH/POMU
618	CHS138	western hemlock/Cascade barberry (Olympic)	TSHE/MANE2
618	CHS139	western hemlock/Cascade barberry/western swordfern (Olympic)	TSHE/MANE2/POMU
618	CHS331	western hemlock/Pacific rhododendron (Olympic)	TSHE/RHMA3
618	CHS332	western hemlock/Pacific rhododendron/common beargrass (Olympic)	TSHE/RHMA3/XETE
618	CHS333	western hemlock/Pacific rhododendron-Cascade barberry (Olympic)	TSHE/RHMA3-MANE2
618	CHS334	western hemlock/Pacific rhododendron-salal (Olympic)	TSHE/RHMA3-GASH
618	CHS335	western hemlock/Pacific rhododendron/western swordfern (Olympic)	TSHE/RHMA3/POMU
618	CHS512	western hemlock/devilsclub (Olympic)	TSHE/OPHO
618	CHS621	western hemlock/oval-leaf blueberry	TSHE/VAOV
618	CHS622	western hemlock/oval-leaf blueberry/common beargrass	TSHE/VAOV/XETE
618	CHS623	western hemlock/oval-leaf blueberry/redwood-sorrel (Olympic)	TSHE/VAOV/OXOR
618	CHS624	western hemlock/oval-leaf blueberry-salal (Olympic)	TSHE/VAOV-GASH
618	CMS241	mountain hemlock/oval-leaf blueberry	TSME/VAOV
618	CMS242	mountain hemlock/oval-leaf blueberry/white avalanche-lily	TSME/VAOV/ERM08
618	CMS243	mountain hemlock/oval-leaf blueberry/common beargrass	TSME/VAOV/XETE
618	CMS244	mountain hemlock/thinleaf huckleberry-oval-leaf blueberry	TSME/VAME-VAOV
618	CMS245	mountain hemlock/thinleaf huckleberry/common beargrass (Olympic)	TSME/VAME/XETE
618	CMS311	mountain hemlock/pink mountainheath-Cascade bilberry	TSME/PHEM-VADE
618	CMS312	mountain hemlock/Cascade azalea-thinleaf huckleberry	TSME/RHAL2-VAME

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
618	CSF111	Sitka spruce/western swordfern-redwood-sorrel	PISI/POMU-OXOR
619	CCF211	western red cedar-grand fir/sweet after death	THPL-ABGR/ACTR
619	CDG141	Douglas-fir/Geyer's sedge	PSME/CAGE2
619	CDG321	Douglas-fir/western fescue	PSME/FEOC
619	CDS231	Douglas-fir/oceanspray/Geyer's sedge	PSME/HODI/CAGE2
619	CDS661	Douglas-fir/common snowberry	PSME/SYAL
619	CDS662	Douglas-fir/pinemat manzanita	PSME/ARNE
619	CHC311	western hemlock-grand fir/bride's bonnet	TSHE-ABGR/CLUN2
619	CPH211	ponderosa pine-Oregon white oak/arrowleaf balsamroot	PIPO-QUGA4/BASA3
619	CPH212	ponderosa pine-Oregon white oak/antelope bitterbrush	PIPO-QUGA4/PUTR2
619	CWC511	grand fir-Engelmann spruce/starry false lily of the valley	ABGR-PIEN/MAST4
619	CWF321	grand fir/twinflower	ABGR/LIBO3
619	CWF521	grand fir/broadleaf starflower	ABGR/TRBOL
619	CWF522	grand fir/sweet after death	ABGR/ACTR
619	CWF523	grand fir/Jacob's-ladder	ABGR/POPU3
619	CWG121	grand fir/Geyer's sedge	ABGR/CAGE2
619	CWS331	grand fir/snowberry	ABGR/SYMPH
619	CWS531	grand fir/oceanspray	ABGR/HODI
619	CWS532	grand fir/vine maple/sweet after death	ABGR/ACCI/ACTR
619	CWS533	grand fir/giant chinquapin	ABGR/CHCHC4
620	CCF212	western red cedar/sweet after death	THPL/ACTR
620	CDS241	Douglas-fir/vine maple/western fescue	PSME/ACCI/FEOC
620	CWG122	grand fir/Geyer's sedge (Gifford Pinchot)	ABGR/CAGE2
620	CWG123	grand fir/pinegrass	ABGR/CARU
620	CWS221	grand fir/thinleaf huckleberry/twinflower	ABGR/VAME/LIBO3
620	CWS222	grand fir/thinleaf huckleberry/bride's bonnet	ABGR/VAME/CLUN2
620	CWS223	grand fir/thimbleberry/drops of gold	ABGR/RUPA/DIHO3
620	CWS224	grand fir/Cascade barberry/sweet after death	ABGR/MANE2/ACTR
620	CWS332	grand fir/creeping snowberry/sweet after death	ABGR/SYMO/ACTR
620	CWS534	grand fir/oceanspray (Gifford Pinchot)	ABGR/HODI
620	CWS535	grand fir/vine maple-hollyleaved barberry/broadleaf starflower	ABGR/ACCI-MAAQ2/TRBOL
620	CWS536	grand fir/beaked hazelnut/sweet after death	ABGR/COCO6/ACTR
620	CWS537	grand fir/Pacific dogwood/sweet after death	ABGR/CONU4/ACTR
621	CEF341	subalpine fir/Sitka valerian	ABLA/VASI
621	CFF154	Pacific silver fir/oneleaf foamflower-twistedstalk	ABAM/TITRU-STLAR
621	CFF250	Pacific silver fir/sweet after death	ABAM/ACTR
621	CFF311	Pacific silver fir/common beargrass	ABAM/XETE
621	CFF450	Pacific silver fir/strawberryleaf raspberry-deer fern	ABAM/RUPE-BLSP
621	CFM111	Pacific silver fir/American skunkcabbage	ABAM/LYAM3
621	CFS110	Pacific silver fir/Cascade barberry (Mt. Baker-Snoqualmie)	ABAM/MANE2
621	CFS154	Pacific silver fir/salal-Cascade barberry	ABAM/GASH-MANE2
621	CFS211	Pacific silver fir/thinleaf huckleberry/common beargrass	ABAM/VAME/XETE
621	CFS212	Pacific silver fir/oval-leaf blueberry (Mt. Baker-Snoqualmie)	ABAM/VAOV
621	CFS214	Pacific silver fir/oval-leaf blueberry/common beargrass	ABAM/VAOV/XETE
621	CFS216	Pacific silver fir/oval-leaf blueberry-Cascade barberry	ABAM/VAOV-MANE2
621	CFS218	Pacific silver fir/oval-leaf blueberry/bride's bonnet	ABAM/VAOV/CLUN2
621	CFS221	Pacific silver fir/thinleaf huckleberry/Sitka valerian	ABAM/VAME/VASI
621	CFS222	Pacific silver fir/thinleaf huckleberry/twistedstalk	ABAM/VAME-STLAR

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
621	CFS223	Pacific silver fir/thinleaf huckleberry-oval-leaf blueberry	ABAM/VAME-VAOV
621	CFS224	Pacific silver fir/thinleaf huckleberry	ABAM/VAME
621	CFS225	Pacific silver fir/oval-leaf blueberry/false lily of the valley	ABAM/VAOV/MADI
621	CFS226	Pacific silver fir/oval-leaf blueberry/oneleaf foamflower	ABAM/VAOV/TITRU
621	CFS228	Pacific silver fir/oval-leaf blueberry/sidebells wintergreen	ABAM/VAOV/ORSE
621	CFS229	Pacific silver fir/thinleaf huckleberry/sidebells wintergreen	ABAM/VAME/ORSE
621	CFS230	Pacific silver fir/oval-leaf blueberry-salal (Mt. Baker-Snoqualmie)	ABAM/VAOV-GASH
621	CFS231	Pacific silver fir/oval-leaf blueberry/western swordfern	ABAM/VAOV/POMU
621	CFS352	Pacific silver fir/devilsclub-oval-leaf blueberry	ABAM/OPHO-VAOV
621	CFS554	Pacific silver fir/Cascade azalea-thinleaf huckleberry	ABAM/RHAL2-VAME
621	CFS555	Pacific silver fir/Cascade azalea-oval-leaf blueberry	ABAM/RHAL2-VAOV
621	CHF132	western hemlock/western swordfern-threelaf foamflower (Olympic)	TSHE/POMU-TITR
621	CHF133	western hemlock/western swordfern-salal	TSHE/POMU-GASH
621	CHF134	western hemlock/western swordfern-Cascade barberry	TSHE/POMU-MANE2
621	CHF250	western hemlock/threelaf foamflower-western oakfern	TSHE/TITR-GYDR
621	CHM111	western hemlock/American skunkcabbage (Mt. Baker-Snoqualmie)	TSHE/LYAM3
621	CHS131	western hemlock/salal (Mt Baker-Snoqualmie)	TSHE/GASH
621	CHS132	western hemlock/salal/common beargrass	TSHE/GASH/XETE
621	CHS135	western hemlock/salal-Cascade barberry	TSHE/GASH-MANE2
621	CHS138	western hemlock/Cascade barberry (Mt. Baker-Snoqualmie)	TSHE/MANE2
621	CHS140	western hemlock/salal-thinleaf huckleberry	TSHE/GASH-VAME
621	CHS141	western hemlock/Cascade barberry/little prince's pine	TSHE/MANE2/CHME
621	CHS251	western hemlock/vine maple-Cascade barberry	TSHE/ACCI-MANE2
621	CHS513	western hemlock/devilsclub-common ladyfern	TSHE/OPHO-ATFI
621	CHS621	western hemlock/oval-leaf blueberry	TSHE/VAOV
621	CHS622	western hemlock/oval-leaf blueberry/common beargrass	TSHE/VAOV/XETE
621	CHS625	western hemlock/oval-leaf blueberry-western swordfern	TSHE/VAOV-POMU
621	CHS626	western hemlock/oval-leaf blueberry-Cascade barberry	TSHE/VAOV-MANE2
621	CMF250	mountain hemlock/oneleaf foamflower-twistedstalk	TSME/TITRU-STLAR
621	CMF251	mountain hemlock/Howell's marsh marigold	TSME/CALEH2
621	CMS241	mountain hemlock/oval-leaf blueberry	TSME/VAOV
621	CMS244	mountain hemlock/thinleaf huckleberry-oval-leaf blueberry	TSME/VAME-VAOV
621	CMS245	mountain hemlock/thinleaf huckleberry/common beargrass (Mt. Baker-Snoqualmie)	TSME/VAME/XETE
621	CMS246	mountain hemlock/thinleaf huckleberry (Mt. Baker-Snoqualmie)	TSME/VAME
621	CMS250	mountain hemlock/thinleaf huckleberry/twistedstalk	TSME/VAME/STLAR
621	CMS251	mountain hemlock/thinleaf huckleberry/Sitka valerian	TSME/VAME/VASI
621	CMS252	mountain hemlock/oval-leaf blueberry/twistedstalk	TSME/VAOV/STLAR
621	CMS253	mountain hemlock/oval-leaf blueberry/bride's bonnet	TSME/VAOV/CLUN2
621	CMS254	mountain hemlock/thinleaf huckleberry/roughfruit berry	TSME/VAME/RULA2
621	CMS255	mountain hemlock/oval-leaf blueberry/false lily of the valley	TSME/VAOV/MADI
621	CMS350	mountain hemlock/pink mountainheath-Cascade bilberry	TSME/PHEM-VADE
621	CMS351	mountain hemlock/Cascade azalea-oval-leaf blueberry	TSME/RHAL2-VAOV
621	CMS352	mountain hemlock/Cascade azalea-thinleaf huckleberry	TSME/RHAL2-VAME
621	CMS353	mountain hemlock/copperbush/strawberryleaf raspberry	TSME/ELPY/RUPE

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
621	CMS450	mountain hemlock/devilsclub-oval-leaf blueberry	TSME/OPHO-VAOV
622	CAF0	subalpine fir-whitebark pine/Jacob's-ladder	ABLA-PIAL/POPU3
622	CAF2	subalpine fir-whitebark pine/poke knotweed	ABLA-PIAL/POPH
622	CAG111	subalpine fir/Geyer's sedge	ABLA/CAGE2
622	CAG3	subalpine fir-whitebark pine/Drummond's rush	ABLA-PIAL/JUDR
622	CAG4	subalpine fir/western needlegrass	ABLA/ACOCO
622	CDG111	Douglas-fir/Geyer's sedge	PSME/CAGE2
622	CDG112	Douglas-fir/pinegrass	PSME/CARU
622	CDS611	Douglas-fir/oceanspray	PSME/HODI
622	CDS624	Douglas-fir/common snowberry	PSME/SYAL
622	CDS625	Douglas-fir/mountain snowberry	PSME/SYOR2
622	CDS711	Douglas-fir/mallow ninebark	PSME/PHMA5
622	CDS821	Douglas-fir/thinleaf huckleberry	PSME/VAME
622	CSDS	Douglas-fir/curl-leaf mountain mahogany/Geyer's sedge	PSME/CELE3/CAGE2
622	CEF331	subalpine fir/Carolina bugbane	ABLA/TRCA
622	CES221	subalpine fir/rusty menziesia	ABLA/MEFE
622	CES311	subalpine fir/thinleaf huckleberry	ABLA/VAME
622	CES314	subalpine fir/bride's bonnet	ABLA/CLUN2
622	CES411	subalpine fir/grouse whortleberry	ABLA/VASC
622	CES414	subalpine fir/twinflower	ABLA/LIBO3
622	CJG111	western juniper/Idaho fescue-bluebunch wheatgrass	JUOC/FEID-PSSPS
622	CJS1	western juniper/little sagebrush	JUOC/ARAR8
622	CJS2	western juniper/mountain big sagebrush	JUOC/ARTRV
622	CJS321	western juniper/antelope bitterbrush/Idaho fescue-bluebunch wheatgrass	JUOC/PUTR2/FEID-PSSPS
622	CJS4	western juniper/mountain mahogany	JUOC/CERCO
622	CJS8	western juniper/scabland sagebrush	JUOC/ARRI2
622	CLG2	lodgepole pine/pinegrass	PICO/CARU
622	CLS4	lodgepole pine/grouse whortleberry	PICO/VASC
622	CLS416	lodgepole pine/pinegrass	PICO/CARU
622	CLS5	lodgepole pine/thinleaf huckleberry/pinegrass	PICO/VAME/CARU
622	CLS6	lodgepole pine/Sitka alder	PICO/ALVIS
622	CPG111	ponderosa pine/bluebunch wheatgrass	PIPO/PSSPS
622	CPG112	ponderosa pine/Idaho fescue	PIPO/FEID
622	CPG221	ponderosa pine/pinegrass	PIPO/CARU
622	CPG222	ponderosa pine/Geyer's sedge	PIPO/CAGE2
622	CPS1	ponderosa pine/mountain big sagebrush/Geyer's sedge	PIPO/ARTRV/CAGE2
622	CPS131	ponderosa pine/mountain big sagebrush/Idaho fescue-bluebunch wheatgrass	PIPO/ARTRV/FEID-PSSPS
622	CPS221	ponderosa pine/antelope bitterbrush/Ross' sedge	PIPO/PUTR2/CAR05
622	CPS222	ponderosa pine/antelope bitterbrush/Geyer's sedge	PIPO/PUTR2/CAGE2
622	CPS226	ponderosa pine/antelope bitterbrush/Idaho fescue-bluebunch wheatgrass	PIPO/PUTR2/FEID-PSSPS
622	CPS232	ponderosa pine/curl-leaf mountain mahogany/Geyer's sedge	PIPO/CELE3/CAGE2
622	CPS233	ponderosa pine/curl-leaf mountain mahogany/Wheeler bluegrass	PIPO/CELE3/PONE2
622	CPS234	ponderosa pine/curl-leaf mountain mahogany/Idaho fescue-bluebunch wheatgrass	PIPO/CELE3/FEID-PSSPS
622	CPS524	ponderosa pine/common snowberry	PIPO/SYAL

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
622	CPS525	ponderosa pine/mountain snowberry	PIPO/SYOR2
622	CWC811	grand fir/Pacific yew/bride's bonnet	ABGR/TABR2/CLUN2
622	CWC812	grand fir/Pacific yew/twinflower	ABGR/TABR2/LIBO3
622	CWF312	grand fir/twinflower	ABGR/LIBO3
622	CWF421	grand fir/bride's bonnet	ABGR/CLUN2
622	CWF512	grand fir/Carolina bugbane	ABGR/TRCA
622	CWF611	grand fir/western oakfern	ABGR/GYDR
622	CWF612	grand fir/western swordfern-British Columbia wildginger	ABGR/POMU-ASCA2
622	CWG111	grand fir/Geyer's sedge	ABGR/CAGE2
622	CWG113	grand fir/pinegrass	ABGR/CARU
622	CWG211	grand fir/Columbia brome	ABGR/BRVU
622	CWS212	grand fir/thinleaf huckleberry	ABGR/VAME
622	CWS322	grand fir/white spirea	ABGR/SPBE2
622	CWS541	grand fir/Rocky Mountain maple	ABGR/ACGL
622	CWS811	grand fir/grouse whortleberry	ABGR/VASC
622	CWS812	grand fir/grouse whortleberry/twinflower	ABGR/VASC/LIBO3
622	GB41	bluebunch wheatgrass-Sandberg bluegrass	PSSPS-POSE
622	GB4911	bluebunch wheatgrass-Sandberg bluegrass-onespike danthonia	PSSPS-POSE-DAUN
622	GB59	Idaho fescue-bluebunch wheatgrass	FEID-PSSPS
622	GB9111	Sandberg bluegrass-onespike danthonia	POSE-DAUN
622	GS10	western needlegrass	ACOCO
622	GS11	greenleaf fescue	FEVI
622	GS12	Idaho fescue	FEID
622	SD1911	little sagebrush/Idaho fescue-bluebunch wheatgrass	ARAR8/FEID-PSSPS
622	SD2911	mountain big sagebrush/Idaho fescue-bluebunch wheatgrass	ARTRV/FEID-PSSPS
622	SD3111	antelope bitterbrush/Idaho fescue-bluebunch wheatgrass	PUTR2/FEID-PSSPS
622	SD40	curl-leaf mountain mahogany/Geyer's sedge	CELE3/CAGE2
622	SD4111	curl-leaf mountain mahogany/Idaho fescue-bluebunch wheatgrass	CELE3/FEID-PSSPS
622	SD9111	scabland sagebrush/Sandberg bluegrass	ARRI2/POSE
622	SD9221	little sagebrush/Sandberg bluegrass	ARAR8/POSE
622	SM1111	mallow ninebark-common snowberry	PHMA5-SYAL
622	SM20	Sitka alder	ALVIS
622	SM31	common snowberry	SYAL
622	SM32	mountain snowberry	SYOR2
622	SS49	Geyer's sedge	CAGE2
622	SS4911	mountain big sagebrush/Geyer's sedge	ARTRV/CAGE2
623	CAF211	mountain hemlock-subalpine fir/Davis' knotweed	TSME-ABLA/PODA
623	CAF311	mountain hemlock-subalpine fir/Cascade aster	TSME-ABLA/EULEL2
623	CAG211	mountain hemlock-subalpine fir/greenleaf fescue	TSME-ABLA/FEVI
623	CAG311	mountain hemlock/Hitchcock's smooth woodrush	TSME/LUGLH
623	CAG312	mountain hemlock-whitebark pine/Hitchcock's smooth woodrush	TSME-PIAL/LUGLH
623	CAS211	mountain hemlock/pink mountainheath-Cascade bilberry	TSME/PHEM-VADE
623	CAS411	mountain hemlock-subalpine fir/common juniper	TSME-ABLA/JUCO6
623	CMS114	mountain hemlock/grouse whortleberry	TSME/VASC
623	CMS216	mountain hemlock/thinleaf huckleberry/common beargrass	TSME/VAME/XETE
623	CMS218	mountain hemlock/thinleaf huckleberry/bride's bonnet	TSME/VAME/CLUN2

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
623	CMS221	mountain hemlock/rusty menziesia	TSME/MEFE
623	CMS223	mountain hemlock/Cascade azalea	TSME/RHAL2
623	CMS612	mountain hemlock/Pacific rhododendron	TSME/RHMA3
624	CDS628	Douglas-fir/common snowberry (floodplain)	PSME/SYAL
624	CDS724	Douglas-fir/Rocky Mountain maple-mallow ninebark (floodplain)	PSME/ACGL-PHMA5
624	CEF332	subalpine fir/common ladyfern	ABLA/ATFI
624	CEF333	subalpine fir/arrowleaf ragwort	ABLA/SETR
624	CEF334	Engelmann spruce/common ladyfern	PIEN/ATFI
624	CEF335	Engelmann spruce/arrowleaf ragwort	PIEN/SETR
624	CEM121	Engelmann spruce/softleaf sedge	PIEN/CADI6
624	CEM211	Engelmann spruce/field horsetail	PIEN/EQAR
624	CES511	Engelmann spruce/redosier dogwood	PIEN/COSES
624	CLM112	lodgepole pine/Kentucky bluegrass	PICO/POPR
624	CLM114	lodgepole pine/water sedge	PICO/CAAQ
624	CLM115	lodgepole pine/tufted hairgrass	PICO/DECA18
624	CPM112	ponderosa pine/Kentucky bluegrass	PIPO/POPR
624	CPS511	ponderosa pine/common snowberry (floodplain)	PIPO/SYAL
624	CWF611	grand fir/western oakfern	ABGR/GYDR
624	CWF613	grand fir/common ladyfern	ABGR/ATFI
624	CWS314	grand fir/common snowberry (floodplain)	ABGR/SYAL
624	CWS543	grand fir/Rocky Mountain maple (floodplain)	ABGR/ACGL
624	FW4211	arrowleaf ragwort	SETR
624	FW4212	field horsetail	EQAR
624	FW4213	northern maidenhair	ADPE
624	FW5121	false hellebore	VERAT
624	GM4111	bluejoint	CACA4
624	HAF211	red alder/arctic sweet coltsfoot	ALRU2/PEFRP
624	HAS211	red alder/Pacific ninebark	ALRU2/PHCA11
624	HCS112	black cottonwood/Pacific willow	POBAT/SALUL
624	HCS113	black cottonwood/thinleaf alder-redosier dogwood	POBAT/ALINT-COSES
624	HCS114	black cottonwood/Rocky Mountain maple	POBAT/ACGL
624	HCS311	black cottonwood/common snowberry	POBAT/SYAL
624	HQM122	quaking aspen/Kentucky bluegrass	POTR5/POPR
624	HQM123	quaking aspen/bluejoint	POTR5/CACA4
624	HQM211	quaking aspen/woolly sedge	POTR5/CAPE42
624	HQS221	quaking aspen/common snowberry	POTR5/SYAL
624	MD3111	Kentucky bluegrass	POPR
624	MM1912	tufted hairgrass	DECA18
624	MM2911	woolly sedge	CAPE42
624	MM2912	Nebraska sedge	CANE2
624	MM2914	water sedge	CAAQ
624	MM2915	analogue sedge	CASI2
624	MM2916	woodrush sedge	CALU7
624	MM2917	Northwest Territory sedge	CAUT
624	MM2918	Cusick's sedge	CACU5
624	MM2919	lakeshore sedge	CALEL
624	MM2920	woollyfruit sedge	CALA11

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
624	MM2921	bigleaf sedge	CAAM10
624	MM2922	naked sedge	CANU5
624	MM2924	panicled bulrush	SCMI2
624	MM2925	fowl mannagrass	GLST
624	MS3111	mountain sedge	CASC12
624	MW1923	blister sedge	CAVEV2
624	MW3912	Baltic rush	JUBA
624	MW4911	fewflower spikerush	ELQU2
624	MW4912	common spikerush	ELPA3
624	SW1111	willow/Kentucky bluegrass	SALIX/POPR
624	SW1112	willow/woolly sedge	SALIX/CAPE42
624	SW1114	willow/water sedge	SALIX/CAAQ
624	SW1117	narrowleaf willow	SAEX
624	SW1121	undergreen willow/mountain sedge	SACO2/CASC12
624	SW1123	willow/Northwest Territory sedge	SALIX/CAUT
624	SW2111	Sitka alder/common ladyfern	ALVIS/ATFI
624	SW2112	Sitka alder/drooping woodreed	ALVIS/CILA2
624	SW2114	gray alder/bigleaf sedge	ALIN2/CAAM10
624	SW2115	gray alder/Northwest Territory sedge	ALIN2/CAUT
624	SW2116	gray alder/common ladyfern	ALIN2/ATFI
624	SW2117	gray alder/field horsetail	ALIN2/EQAR
624	SW2118	gray alder/Dewey sedge	ALIN2/CADE9
624	SW2120	gray alder/Kentucky bluegrass	ALIN2/POPR
624	SW2121	gray alder/bluejoint	ALIN2/CACA4
624	SW2122	gray alder/panicled bulrush	ALIN2/SCMI2
624	SW2123	gray alder/woolly sedge	ALIN2/CAPE42
624	SW2124	thinleaf alder/common cowparsnip	ALINT/HEMA80
624	SW2211	gray alder/common snowberry	ALIN2/SYAL
624	SW2215	gray alder/fowl mannagrass	ALIN2/GLST
624	SW2216	gray alder-redosier dogwood/mesic forb	ALIN2- COSES/2FORB
624	SW2217	gray alder-currant/mesic forb	ALIN2-RIBES/2FORB
624	SW3111	black hawthorn	CRDO2
624	SW5111	currant/drooping woodreed	RIBES/CILA2
624	SW5112	redosier dogwood	COSES
624	SW5113	shrubby cinquefoil/tufted hairgrass	DAFL3/DECA18
624	SW5114	shrubby cinquefoil/Kentucky bluegrass	DAFL3/POPR
624	SW6111	silver sagebrush/tufted hairgrass	ARCA13/DECA18
624	SW6112	silver sagebrush/Kentucky bluegrass	ARCA13/POPR
624	SW6113	mountain big sagebrush/Cusick's bluegrass	ARTRV/POCU3
625	CCF110	western red cedar/common ladyfern-coastal hedgenettle	THPL/ATFI-STCHC3
625	CCS110	western red cedar/salmonberry-redwood-sorrel	THPL/RUSP-OXOR
625	CWM210	grand fir-western red cedar/American skunkcabbage	ABGR-THPL/LYAM3
625	FW4221	northern maidenhair	ADPE
625	FW4222	field horsetail	EQAR
625	FW4223	American skunkcabbage	LYAM3
625	FW4224	seep monkeyflower	MIGU
625	FW4225	woodsorrel	OXALI
625	FW4226	arctic sweet coltsfoot	PEFR5

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
625	FW4227	brook saxifrage-arrowleaf ragwort	SAOD2-SETR
625	FW4228	arrowleaf ragwort-giant mountain aster	SETR-CAMO32
625	FW4229	coastal hedgenettle-common ladyfern	STCHC3-ATFI
625	FW4230	coastal hedgenettle-seep monkeyflower	STCHC3-MIGU
625	FW4231	coldwater fumewort	COCAA
625	HAF221	red alder/blue wildrye	ALRU2/ELGL
625	HAF222	red alder/woodsorrel	ALRU2/OXALI
625	HAF223	red alder/arctic sweet coltsfoot	ALRU2/PEFR5
625	HAF224	red alder/coastal hedgenettle	ALRU2/STCHC3
625	HAF225	red alder/youth on age-Siberian springbeauty	ALRU2/TOME-CLISIS
625	HAS111	red alder/thimbleberry	ALRU2/RUPA
625	HAS112	red alder/salmonberry/woodsorrel	ALRU2/RUSP/OXALI
625	HAS113	red alder/salmonberry/youth on age	ALRU2/RUSP/TOME
625	HAS311	red alder/vine maple	ALRU2/ACCI
625	HAS411	red alder/devilsclub	ALRU2/OPHO
625	HCS1	black cottonwood	POBAT
625	MM2931	lakeshore sedge	CALE8
625	MT1921	panicked bulrush	SCM12
625	SW1131	Sitka willow	SASI2
625	SW1132	Sitka willow/arctic sweet coltsfoot	SASI2/PEFR5
625	SW2131	gray alder-oval-leaf blueberry	ALIN2-VAOV
625	SW2132	Sitka alder	ALVIS
625	SW2511	red alder (shrub)	ALRU2
625	SW2512	red alder (shrub)/Carolina bugbane	ALRU2/TRCA
625	SW4131	redosier dogwood	COSES
625	SW4132	oval-leaf blueberry	VAOV
625	SW5121	stink currant-salmonberry/woodsorrel	RIBR-RUSP/OXALI
625	SW5122	stink currant-salmonberry/arctic sweet coltsfoot	RIBR-RUSP/PEFR5
625	SW5123	stink currant-salmonberry/youth on age	RIBR-RUSP/TOME
625	SW70	vine maple	ACCI
625	SW7111	vine maple-gray alder	ACCI-ALIN2
625	SW7112	vine maple/coastal hedgenettle	ACCI/STCHC3
625	SW7113	devilsclub	OPHO
626	CAC111	subalpine larch/western moss heather-partridgefoot	LALY/CAME7-LUPE
626	CAC112	subalpine larch/eightpetal mountain-avens	LALY/DROC
626	CAC113	subalpine larch/common juniper	LALY/JUCO6
626	CAC114	subalpine larch/Cascade bilberry-western moss heather	LALY/VADE-CAME7
626	CAC115	subalpine larch/grouse whortleberry/Hitchcock's smooth woodrush	LALY/VASC/LUGLH
626	CAF321	whitebark pine/eightpetal mountain-avens	PIAL/DROC
626	CAG112	whitebark pine/pinegrass	PIAL/CARU
626	CAG221	whitebark pine/greenleaf fescue	PIAL/FEVI
626	CAS221	whitebark pine/western moss heather/partridgefoot	PIAL/CAME7/LUPE
626	CAS311	whitebark pine/grouse whortleberry/Hitchcock's smooth woodrush	PIAL/VASC/LUGLH
626	CAS421	whitebark pine/common juniper	PIAL/JUCO6
626	CCS211	western red cedar/devilsclub	THPL/OPHO
626	CDF411	Douglas-fir/bush penstemon	PSME/PEFR3
626	CDG131	Douglas-fir/pinegrass (Okanogan and Colville)	PSME/CARU

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
626	CDG132	Douglas-fir/Geyer's sedge (Wenatchee)	PSME/CAGE2
626	CDG134	Douglas-fir/pinegrass-bluebunch wheatgrass	PSME/CARU-PSSPS
626	CDG322	Douglas-fir/bluebunch wheatgrass (Wenatchee)	PSME/PSSPS
626	CDG323	Douglas-fir/bluebunch wheatgrass-Indian's dream	PSME/PSSPS-ASDE6
626	CDS411	Douglas-fir/Oregon boxleaf	PSME/PAMY
626	CDS412	Douglas-fir/Oregon boxleaf/pinegrass	PSME/PAMY/CARU
626	CDS632	Douglas-fir/mountain snowberry (Okanogan and Colville)	PSME/SYOR2
626	CDS636	Douglas-fir/common snowberry (Wenatchee)	PSME/SYAL
626	CDS637	Douglas-fir/common snowberry/bluebunch wheatgrass	PSME/SYAL/PSSPS
626	CDS638	Douglas-fir/common snowberry/pinegrass	PSME/SYAL/CARU
626	CDS639	Douglas-fir/shinyleaf spirea/pinegrass	PSME/SPBEL/CARU
626	CDS640	Douglas-fir/shinyleaf spirea	PSME/SPBEL
626	CDS653	Douglas-fir/kinnikinnick (Wenatchee)	PSME/ARUV
626	CDS654	Douglas-fir/kinnikinnick-antelope bitterbrush	PSME/ARUV-PUTR2
626	CDS655	Douglas-fir/kinnikinnick/pinegrass	PSME/ARUV/CARU
626	CDS673	Douglas-fir/antelope bitterbrush	PSME/PUTR2
626	CDS674	Douglas-fir/antelope bitterbrush/bluebunch wheatgrass	PSME/PUTR2/PSSPS
626	CDS675	Douglas-fir/antelope bitterbrush/pinegrass	PSME/PUTR2/CARU
626	CDS831	Douglas-fir/dwarf bilberry	PSME/VACA13
626	CDS832	Douglas-fir/velvetleaf huckleberry (Wenatchee)	PSME/VAMY
626	CDS833	Douglas-fir/velvetleaf huckleberry/pinegrass	PSME/VAMY/CARU
626	CEF222	subalpine fir/longtube twinflower (Wenatchee)	ABLA/LIBOL2
626	CEF422	subalpine fir/Carolina bugbane	ABLA/TRCA
626	CEF424	subalpine fir/broadleaf arnica-Jacob's-ladder	ABLA/ARLA8-POPU3
626	CEG121	subalpine fir/Hitchcock's smooth woodrush (Wenatchee)	ABLA/LUGLH
626	CEG311	subalpine fir/pinegrass	ABLA/CARU
626	CEM211	Engelmann spruce/horsetail	PIEN/EQUIS
626	CES112	subalpine fir/Oregon boxleaf/pinegrass	ABLA/PAMY/CARU
626	CES113	subalpine fir/Oregon boxleaf (Wenatchee)	ABLA/PAMY
626	CES211	subalpine fir/Cascade azalea	ABLA/RHAL2
626	CES213	subalpine fir/Cascade azalea/Hitchcock's smooth woodrush	ABLA/RHAL2/LUGLH
626	CES341	subalpine fir/Cascade bilberry	ABLA/VADE
626	CES342	subalpine fir/thinleaf huckleberry (Wenatchee)	ABLA/VAME
626	CES413	subalpine fir/grouse whortleberry/pinegrass	ABLA/VASC/CARU
626	CES422	subalpine fir/dwarf bilberry	ABLA/VACA13
626	CES423	subalpine fir/roughfruit berry	ABLA/RULA2
626	CES424	subalpine fir/grouse whortleberry/broadleaf arnica	ABLA/VASC/ARLA8
626	CES425	subalpine fir/grouse whortleberry/Hitchcock's smooth woodrush	ABLA/VASC/LUGLH
626	CES426	subalpine fir/grouse whortleberry (Wenatchee)	ABLA/VASC
626	CFF162	Pacific silver fir/oneleaf foamflower	ABAM/TITRU
626	CFF254	Pacific silver fir/sweet after death (Wenatchee)	ABAM/ACTR
626	CFS232	Pacific silver fir/oval-leaf blueberry (Wenatchee)	ABAM/VAOV
626	CFS233	Pacific silver fir/thinleaf huckleberry/bride's bonnet (Wenatchee)	ABAM/VAME/CLUN2
626	CFS234	Pacific silver fir/thinleaf huckleberry-sidebells wintergreen	ABAM/VAME-ORSE
626	CFS351	Pacific silver fir/devilsclub	ABAM/OPHO
626	CFS413	Pacific silver fir/roughfruit berry (Wenatchee)	ABAM/RULA2

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
626	CFS542	Pacific silver fir/rusty menziesia (Wenatchee)	ABAM/MEFE
626	CFS556	Pacific silver fir/Cascade azalea-thinleaf huckleberry (Wenatchee)	ABAM/RHAL2-VAME
626	CFS621	Pacific silver fir/vine maple	ABAM/ACCI
626	CHF223	western hemlock/sweet after death (Wenatchee)	TSHE/ACTR
626	CHF313	western hemlock/British Columbia wildginger	TSHE/ASCA2
626	CHM121	western hemlock/American skunkcabbage	TSHE/LYAM3
626	CHS142	western hemlock/Cascade barberry (Wenatchee)	TSHE/MANE2
626	CHS143	western hemlock/Oregon boxleaf/bride's bonnet	TSHE/PAMY/CLUN2
626	CHS144	western hemlock/pinemat manzanita	TSHE/ARNE
626	CHS225	western hemlock/vine maple/sweet after death (Wenatchee)	TSHE/ACCI/ACTR
626	CHS226	western hemlock/vine maple/British Columbia wildginger	TSHE/ACCI/ASCA2
626	CHS227	western hemlock/vine maple/bride's bonnet	TSHE/ACCI/CLUN2
626	CMF131	mountain hemlock/common beargrass-whortleberry	TSME/XETE-VAMY2
626	CMG221	mountain hemlock/Hitchcock's smooth woodrush	TSME/LUGLH
626	CMS121	mountain hemlock/grouse whortleberry/Hitchcock's smooth woodrush	TSME/VASC/LUGLH
626	CMS122	mountain hemlock/roughfruit berry	TSME/RULA2
626	CMS256	mountain hemlock/rusty menziesia-oval-leaf blueberry	TSME/MEFE-VAOV
626	CMS257	mountain hemlock/rusty menziesia-thinleaf huckleberry	TSME/MEFE-VAME
626	CMS258	mountain hemlock/oval-leaf blueberry (Wenatchee)	TSME/VAOV
626	CMS259	mountain hemlock/thinleaf huckleberry (Wenatchee)	TSME/VAME
626	CMS354	mountain hemlock/pink mountainheath-Cascade bilberry	TSME/PHEM-VADE
626	CMS355	mountain hemlock/Cascade azalea-oval-leaf blueberry	TSME/RHAL2-VAOV
626	CMS356	mountain hemlock/Cascade azalea-thinleaf huckleberry	TSME/RHAL2-VAME
626	CPG141	ponderosa pine/bluebunch wheatgrass (Wenatchee)	PIPO/PSSPS
626	CPG142	ponderosa pine/bluebunch wheatgrass-Indian's dream	PIPO/PSSPS-ASDE6
626	CPG231	ponderosa pine/pinegrass-bluebunch wheatgrass	PIPO/CARU-PSSPS
626	CPS241	ponderosa pine/antelope bitterbrush/bluebunch wheatgrass	PIPO/PUTR2/PSSPS
626	CWF444	grand fir/heartleaf arnica	ABGR/ARCO9
626	CWF524	grand fir/sweet after death (Wenatchee)	ABGR/ACTR
626	CWG124	grand fir/pinegrass (Wenatchee)	ABGR/CARU
626	CWG125	grand fir/pinegrass-lupine	ABGR/CARU-LUPIN
626	CWS225	grand fir/Cascade barberry	ABGR/MANE2
626	CWS226	grand fir/Cascade barberry/pinegrass (Wenatchee)	ABGR/MANE2/CARU
626	CWS335	grand fir/shinyleaf spirea/western brackenfern	ABGR/SPBEL/PTAQ
626	CWS336	grand fir/common snowberry/pinegrass	ABGR/SYAL/CARU
626	CWS337	grand fir/mountain snowberry	ABGR/SYOR2
626	CWS338	grand fir/pinemat manzanita	ABGR/ARNE
626	CWS551	grand fir/vine maple (Wenatchee)	ABGR/ACCI
626	CWS552	grand fir/vine maple-pipsissewa	ABGR/ACCI-CHUM
626	CWS553	grand fir/vine maple/bride's bonnet	ABGR/ACCI/CLUN2
626	CWS554	grand fir/oceanspray/pinegrass	ABGR/HODI/CARU
626	HOG111	Oregon white oak/bluebunch wheatgrass	QUGA4/PSSPS
626	HOG211	Oregon white oak/pinegrass-Geyer's sedge	QUGA4/CARU-CAGE2
626	HOS311	Oregon white oak/beaked hazelnut-common snowberry	QUGA4/COCO6-SYAL
627	CAG112	whitebark pine	PIAL
627	CCF221	western red cedar/bride's bonnet	THPL/CLUN2

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
627	CCF222	western red cedar/wild sarsaparilla	THPL/ARNU2
627	CCS211	western red cedar/devilsclub	THPL/OPHO
627	CCS311	western red cedar/thinleaf huckleberry	THPL/VAME
627	CDG123	Douglas-fir/kinnikinnick	PSME/ARUV
627	CDG131	Douglas-fir/pinegrass	PSME/CARU
627	CDG311	ponderosa pine-Douglas-fir/bluebunch wheatgrass	PIPO-PSME/PSSPS
627	CDS632	Douglas-fir/mountain snowberry	PSME/SYOR2
627	CDS633	Douglas-fir/common snowberry	PSME/SYAL
627	CDS715	Douglas-fir/mallow ninebark	PSME/PHMA5
627	CDS716	Douglas-fir/mallow ninebark/longtube twinflower	PSME/PHMA5/LIBO L2
627	CDS813	Douglas-fir/dwarf bilberry	PSME/VACA13
627	CDS814	Douglas-fir/thinleaf huckleberry	PSME/VAME
627	CEF111	subalpine fir/common beargrass	ABLA/XETE
627	CEF211	subalpine fir/longtube twinflower	ABLA/LIBOL2
627	CEF421	subalpine fir/bride's bonnet	ABLA/CLUN2
627	CEF422	subalpine fir/Carolina bugbane	ABLA/TRCA
627	CEF423	subalpine fir/bunchberry dogwood	ABLA/COCA13
627	CEG311	subalpine fir/pinegrass	ABLA/CARU
627	CEM211	Engelmann spruce/field horsetail	PIEN/EQAR
627	CES210	subalpine fir/Cascade azalea/common beargrass	ABLA/RHAL2/XETE
627	CES211	subalpine fir/Cascade azalea	ABLA/RHAL2
627	CES313	subalpine fir/thinleaf huckleberry	ABLA/VAME
627	CES412	subalpine fir/grouse whortleberry	ABLA/VASC
627	CES422	subalpine fir/dwarf bilberry	ABLA/VACA13
627	CHF311	western hemlock/bride's bonnet	TSHE/CLUN2
627	CHF312	western hemlock/wild sarsaparilla	TSHE/ARNU2
627	CHF422	western hemlock/Pacific oakfern	TSHE/GYDI2
627	CHF521	western hemlock/common beargrass	TSHE/XETE
627	CHS411	western hemlock/strawberryleaf raspberry	TSHE/RUPE
627	CHS711	western hemlock/rusty menziesia	TSHE/MEFE
627	CLS521	lodgepole pine/russet buffaloberry	PICO/SHCA
627	CWS214	grand fir/thinleaf huckleberry/bride's bonnet (Colville)	ABGR/VAME/CLUN2
627	CWS421	grand fir/mallow ninebark	ABGR/PHMA5
627	CWS422	grand fir/Douglas maple/bride's bonnet	ABGR/ACGLD4/CLU N2
627	CWS821	grand fir/dwarf bilberry	ABGR/VACA13
627	HQG111	quaking aspen/pinegrass	POTR5/CARU
627	HQS211	quaking aspen/common snowberry	POTR5/SYAL
628	CDG112	Douglas-fir/pinegrass	PSME/CARU
628	CDG331	Douglas-fir/bluebunch wheatgrass	PSME/PSSPS
628	CDS511	Douglas-fir/creeping barberry	PSME/MARE11
628	CDS7	Douglas-fir/mallow ninebark	PSME/PHMA5
628	CES311	subalpine fir/thinleaf huckleberry	ABLA/VAME
628	CES411	subalpine fir/grouse whortleberry	ABLA/VASC
628	CLS415	lodgepole pine/grouse whortleberry	PICO/VASC
628	CLS416	lodgepole pine/pinegrass	PICO/CARU
628	CLS515	lodgepole pine/thinleaf huckleberry	PICO/VAME
628	GSXX	grasslands (alpine xeric)	2GRAM

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
628	HQ	quaking aspen	POTR5
628	MS20	meadow, subalpine	
628	MS2111	black alpine sedge	CANI2
628	NA	avalanche paths, sparsely to non-vegetated	
628	NCA1	whitebark pine-subalpine fir	PIAL-ABLA
628	NRA0	rocky land in alpine or subalpine locations	
628	SD21	big sagebrush	ARTR2
628	SM20	Sitka alder	ALVIS
628	SS1911	pink mountainheath	PHEM
631	CCF222	western redcedar/wild sarsparilla	THPL/ARNU2
631	CCF231	Western redcedar/twinflower	THPL/LIBO3
631	CCF232	Western redcedar/oakfern	THPL/GYDR
631	CDG122	Douglas-fir/pinegrass-kinnikinnick	PSME/CARU-ARUV
631	CDG131	Douglas-fir/pinegrass	PSME/CARU
631	CDG332	Douglas-fir/Idaho fescue	PSME/FEID
631	CDS611	Douglas-fir/oceanspray	PSME/HODI
631	CDS627	Douglas-fir/common snowberry	PSME/SYAL
631	CDS635	Douglas-fir/white spirea	PSME/SPBE2
631	CDS715	Douglas-fir/mallow ninebark-heartleaf arnica	PSME/PHMA5-ARCO9
631	CDS716	Douglas-fir/mallow ninebark-Oregon boxleaf	PSME/PHMA5-PAMY
631	CEF211	subalpine fir/twinflower	ABLA/LIBO3
631	CEF441	Subalpine fir/oakfern	ABLA/GYDR
631	CEG311	subalpine fir/pinegrass	ABLA/CARU
631	CES111	subalpine fir/Oregon boxleaf	ABLA/PAMY
631	CES151	Subalpine fir-whitebark pine/bearberry	ABLA-PIAL/ARUV
631	CES211	subalpine fir/Cascade azalea	ABLA/RHAL2
631	CES312	subalpine fir/blueberry	ABLA/VACCI
631	CES611	subalpine fir/pink mountain heath	ABLA/PHEM
631	CPG121	ponderosa pine/bluebunch wheatgrass	PIPO/PSSPS
631	CPG122	ponderosa pine/Idaho fescue	PIPO/FEID
631	CPS227	ponderosa pine/antelope bitterbrush-Indian ricegrass	PIPO/PUTR2-ACHY
631	CPS228	ponderosa pine/antelope bitterbrush-bluebunch wheatgrass	PIPO/PUTR2-PSSPS
631	CPS229	ponderosa pine/antelope bitterbrush-Idaho fescue	PIPO/PUTR2-FEID
631	CPS521	ponderosa pine/common snowberry	PIPO/SYAL
631	CWC812	grand fir/twinflower/Pacific yew	ABGR/LIBO3/TABR2
631	CWF313	grand fir/twinflower	ABGR/LIBO3
631	CWF551	White fir/drops-of-gold	ABGR/PRHOH
632	CAG1	park	
632	CCF121	western red cedar/common ladyfern	THPL/ATFI
632	CCS211	western red cedar/devilsclub	THPL/OPHO
632	CCS321	western red cedar/Oregon boxleaf	THPL/PAMY
632	CDG121	Douglas-fir/pinegrass	PSME/CARU
632	CDG122	Douglas-fir/pinegrass-kinnikinnick	PSME/CARU-ARUV
632	CDS627	Douglas-fir/common snowberry	PSME/SYAL
632	CDS721	Douglas-fir/mallow ninebark	PSME/PHMA5
632	CEF111	subalpine fir/common beargrass	ABLA/XETE
632	CES121	subalpine fir/Oregon boxleaf	ABLA/PAMY
632	CES231	subalpine fir/rusty menziesia	ABLA/MEFE

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
632	CES421	subalpine fir/grouse whortleberry	ABLA/VASC
632	CMF121	mountain hemlock/common beargrass	TSME/XETE
632	CMS220	mountain hemlock/rusty menziesia	TSME/MEFE
632	CPG121	ponderosa pine/bluebunch wheatgrass	PIPO/PSSPS
632	CPG122	ponderosa pine/Idaho fescue	PIPO/FEID
632	CPG123	ponderosa pine/western needlegrass	PIPO/ACOCO
632	CPS227	ponderosa pine/antelope bitterbrush	PIPO/PUTR2
632	CPS521	ponderosa pine/common snowberry	PIPO/SYAL
632	CPS721	ponderosa pine/mallow ninebark	PIPO/PHMA5
632	CWS722	grand fir/Oregon boxleaf	ABGR/PAMY
632	HCS1	black cottonwood	POBAT
632	NCA1	whitebark pine-subalpine fir	PIAL-ABLA
632	SM8111	Sitka alder (scrub)	ALVIS
634	CLS811	lodgepole pine/salal-California huckleberry/sedge (deflation plain)	PICO/GASH-VAOV2/CAREX
634	CLS812	lodgepole pine/rhododendron/California huckleberry (floodplain, dune)	PICO/RHODO/VAOV2
634	CLS821	lodgepole pine/rhododendron/California huckleberry (stabilized dune)	PICO/RHODO/VAOV2
634	CLS822	lodgepole pine/rhododendron/California huckleberry (eroding dune)	PICO/RHODO/VAOV2
634	CLS823	lodgepole pine/rhododendron/California huckleberry (dune slipface)	PICO/RHODO/VAOV2
634	CLS831	lodgepole pine/kinnikinick-hairy manzanita (rolling dune, open)	PICO/ARUV-ARCO3
634	CSS411	Sitka spruce-Douglas-fir/rhododendron-California huckleberry (stabilized dune)	PISI-PSME/RHODO-VAOV2
634	CSS412	Sitka spruce-lodgepole pine-western hemlock/rhododendron (flood plain)	PISI-PICO-TSHE/RHODO
634	CSS421	Sitka spruce-Douglas-fir/rhododendron-California huckleberry (sandy, steep)	PISI-PSME/RHODO-VAOV2
634	CSS422	Sitka spruce-Douglas-fir/rhododendron-California huckleberry (sandy, gentle)	PISI-PSME/RHODO-VAOV2
634	GR8111	beachgrass (foredune)	AMMOP
634	GR8211	beachgrass/lupine/bluegrass (hummocks, occasionally wet, dense)	AMMOP/LUPIN/POA
634	GR8212	beachgrass/lupine (hummocks, occasionally wet, unstable, open)	AMMOP/LUPIN
634	GR8213	beachgrass/lupine/bluegrass (hummocks, dry, eroding)	AMMOP/LUPIN/POA
634	GR8311	beachgrass (dune slip face, stabilized)	AMMOP
634	MMB8	slough sedge-rush-red fescue (deflation plain potholes/slough)	CAOB3-JUNCU-FERU2
634	MT8111	cattail-bulrush/waterlily-waterweed	TYPHA-SCIRP/NYMPH-ELODE
634	MW8111	slough sedge/American skunk cabbage-red currant (valley fill)	CAOB3/LYAM3-RITR
634	MW8112	slough sedge/waterlily-pondweed-cattail	CAOB3/NYMPH-POTAM-TYPHA
634	NSN111	Pacific coast beach	
634	NSN211	transverse ridge, occasionally wet, winter stable	
634	NSN212	transverse ridge, dry, moving sand	

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
634	NSN311	oblique ridge, fore slope, moving sand	
634	NSN312	oblique ridge, precipitation ridge, active sand	
634	NSN313	oblique ridge, precipitation ridge, active, threat, veget	
634	SW8111	shrub (deflation plain, high water)	2SHRUB
634	SW8112	salal-oval-leaf blueberry-willow (deflation plain, high water)	GASH-VAOV-SALIX
634	WE1311	bar built, well mixed saline, active flood plain	
635	CDC511	ponderosa pine-Douglas-fir/antelope bitterbrush-snowbrush ceanothus	PIPO-PSME/PUTR2-CEVE
635	CDC512	ponderosa pine-Douglas-fir/snowberry	PIPO-PSME/SYMPH
635	CFF141	Pacific silver fir/bride's bonnet	ABAM/CLUN2
635	CFF321	Pacific silver fir/common beargrass	ABAM/XETE
635	CHF531	western hemlock/common beargrass	TSHE/XETE
635	CHS211	western hemlock/vine maple	TSHE/ACCI
635	CHS329	western hemlock/Pacific rhododendron	TSHE/RHMA3
635	CMC311	mountain hemlock-lodgepole pine/pinemat manzanita	TSME-PICO/ARNE
635	CMC312	mountain hemlock-lodgepole pine/grouse whortleberry	TSME-PICO/VASC
635	CMC313	mountain hemlock-lodgepole pine-subalpine fir	TSME-PICO-ABLA
635	CMF111	mountain hemlock/common beargrass	TSME/XETE
635	CPC611	ponderosa pine-Douglas-fir/old man's whiskers-mule-ears (Mutton)	PIPO-PSME/GETR-WYAM
635	CPC612	ponderosa pine-Douglas-fir/antelope bitterbrush (Mutton)	PIPO-PSME/PUTR2
635	CPC613	ponderosa pine-Douglas-fir/greenleaf manzanita-snowbrush ceanothus (Mutton)	PIPO-PSME/ARPA6-CEVE
635	CPC614	ponderosa pine-Douglas-fir/snowberry (Mutton)	PIPO-PSME/SYMPH
635	CPF121	ponderosa pine/old man's whiskers-mule-ears	PIPO/GETR-WYAM
635	CPF131	ponderosa pine/meadow	PIPO/meadow
635	CPS227	ponderosa pine/antelope bitterbrush	PIPO/PUTR2
635	CPS228	ponderosa pine/antelope bitterbrush-greenleaf manzanita	PIPO/PUTR2-ARPA6
635	CWS121	mixed conifer/snowbrush ceanothus	2TE/CEVE
635	CWS213	grand fir/thinleaf huckleberry	ABGR/VAME
635	CWS333	grand fir/snowberry	ABGR/SYMPH
635	CWS334	mixed conifer/snowberry/Geyer's sedge	2TE/SYMPH/CAGE2
635	CWS538	grand fir/vine maple	ABGR/ACCI
635	CWS711	grand fir/Oregon boxleaf	ABGR/PAMY
635	CWS712	grand fir-lodgepole pine/Oregon boxleaf/pinegrass	ABGR-PICO/PAMY/CARU
635	DCC512	mixed conifer/snowberry	2TE/SYMPH
636	CDS652	Douglas-fir/kinnikinnick	PSME/ARUV
636	CFC412	Alaska cedar/oval-leaf blueberry	CHNO/VAOV
636	CFF161	Pacific silver fir/oneleaf foamflower	ABAM/TITRU
636	CFF312	Pacific silver fir/common beargrass	ABAM/XETE
636	CFS151	Pacific silver fir/Cascade barberry	ABAM/MANE2
636	CFS152	Pacific silver fir/salal	ABAM/GASH
636	CFS216	Pacific silver fir/oval-leaf blueberry-Cascade barberry	ABAM/VAOV-MANE2
636	CFS241	Pacific silver fir/oval-leaf blueberry	ABAM/VAOV
636	CFS242	Pacific silver fir/oval-leaf blueberry-strawberryleaf raspberry	ABAM/VAOV-RUPE
636	CFS321	Pacific silver fir/devilsclub	ABAM/OPHO
636	CFS411	Pacific silver fir/roughfruit berry	ABAM/RULA2
636	CFS541	Pacific silver fir/rusty menziesia	ABAM/MEFE

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
636	CFS550	Pacific silver fir/Cascade azalea	ABAM/RHAL2
636	CHF125	western hemlock/western swordfern	TSHE/POMU
636	CHF221	western hemlock/sweet after death	TSHE/ACTR
636	CHS128	western hemlock/salal	TSHE/GASH
636	CHS514	western hemlock/devilsclub	TSHE/OPHO
638	CCF221	western redcedar/bride's bonnet	THPL/CLUN2
638	CDG131	Douglas-fir/pinegrass	PSMA/CARU
638	CDS627	Douglas-fir/common snowberry	PSMA/SYAL
638	CDS715	Douglas-fir/mallow ninebark	PSMA/PHMA5
638	CHF311	western hemlock/bride's bonnet	TSHE/CLUN2
638	CPG121	ponderosa pine/bluebunch wheatgrass	PIPO/PSSPS
638	CPG122	ponderosa pine/Idaho fescue	PIPO/FEID
638	CPG151	Ponderosa pine/needle-and-thread	PIPO/HECOC8
638	CPS227	ponderosa pine/antelope bitterbrush	PIPO/PUTR2
638	CPS521	ponderosa pine/common snowberry	PIPO/SYAL
638	CWF313	grand fir/twinflower	ABGR/LIBO3
639	AB	buildings, structures, roads	
639	ABA1	heliport	
639	ABA2	runway, landing strip	
639	ABA9	aircraft facilities	
639	ABC9	campground, developed	
639	ABP9	parking area	
639	ABR8	road, boat launch area	
639	ABS1	rock and gravel storage area	
639	ABS9	open storage area	
639	AC	cultivated land	
639	AD	dump for trash, garbage, etc.	
639	ADG9	garbage dump	
639	ADL9	land fill, soil, gravel, and/or rock dump (sanitary)	
639	ADT9	trash dump, refuse dump	
639	AG	grassland, permanent pasture	
639	AO	orchards	
639	AR	recreation areas, parks play areas, golf courses	
639	AX	administrative or agricultural	
639	CA	subalpine fir-mountain hemlock-whitebark pine (open parks)	ABLA-TSME-PIAL
639	CAC0	subalpine fir-mountain hemlock-whitebark pine (open parks)	ABLA-TSME-PIAL
639	CAC1	subalpine larch (Okanogan)	LALY
639	CAC111	subalpine larch/western moss heather-partridgefoot	LALY/CAME7-LUPE
639	CAC112	subalpine larch/eightpetal mountain-avens	LALY/DROC
639	CAC113	subalpine larch/common juniper	LALY/JUCO6
639	CAC114	subalpine larch/Cascade bilberry-western moss heather	LALY/VADE-CAME7
639	CAC115	subalpine larch/grouse whortleberry/Hitchcock's smooth woodrush	LALY/VASC/LUGLH
639	CAC2	Alaska cedar	CHNO
639	CAC3	lodgepole pine dominant	PICO
639	CAC4	whitebark pine dominant	PIAL
639	CAC5	subalpine fir dominant	ABLA
639	CAC6	mountain hemlock dominant	TSME

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
639	CAF0	subalpine fir-hemlock-whitebark pine/forb	ABLA-TSUGA-PIAL/2FORB
639	CAF1	common beargrass (subalpine park)	XETE
639	CAF2	poke knotweed (subalpine park)	POPH
639	CAF211	mountain hemlock-subalpine fir/Davis' knotweed	TSME-ABLA/PODA
639	CAF311	mountain hemlock-subalpine fir/Cascade aster	TSME-ABLA/EULEL2
639	CAF321	whitebark pine/eightpetal mountain-avens	PIAL/DROC
639	CAG0	subalpine fir-hemlock-whitebark pine/grass (open parks)	ABLA-TSUGA-PIAL/2GRAM
639	CAG1	sedge (subalpine park)	CAREX
639	CAG111	subalpine fir/Geyer's sedge	ABLA/CAGE2
639	CAG112	whitebark pine/pinegrass	PIAL/CARU
639	CAG2	greenleaf fescue (subalpine park)	FEVI
639	CAG211	mountain hemlock-subalpine fir/greenleaf fescue	TSME-ABLA/FEVI
639	CAG221	whitebark pine/greenleaf fescue	PIAL/FEVI
639	CAG3	woodrush (subalpine park)	LUZUL
639	CAG311	mountain hemlock/Hitchcock's smooth woodrush	TSME/LUGLH
639	CAG312	mountain hemlock-whitebark pine/Hitchcock's smooth woodrush	TSME-PIAL/LUGLH
639	CAG4	western needlegrass (subalpine park)	ACOCO
639	CARR	subalpine fir-whitebark pine (rocky)	ABLA-PIAL
639	CARS	subalpine fir-whitebark pine (steep, rocky)	ABLA-PIAL
639	CARX	subalpine fir-whitebark pine (rocky,parks, rough, steep)	ABLA-PIAL
639	CAS0	subalpine fir-mountain hemlock-whitebark pine/shrub (open park)	ABLA-TSME-PIAL/2SHRUB
639	CAS1	sagebrush (subalpine park)	ARTEM
639	CAS2	mountain heather-heath (subalpine park)	CASSI3-ERICA
639	CAS211	mountain hemlock/pink mountainheath-Cascade bilberry	TSME/PHEM-VADE
639	CAS221	whitebark pine/western moss heather/partridgefoot	PIAL/CAME7/LUPE
639	CAS3	grouse whortleberry (subalpine park)	VASC
639	CAS311	whitebark pine/grouse whortleberry/Hitchcock's smooth woodrush	PIAL/VASC/LUGLH
639	CAS4	common juniper-pinemat manzanita (subalpine park)	JUCO6/ARNE
639	CAS411	mountain hemlock-subalpine fir/common juniper	TSME-ABLA/JUCO6
639	CAS421	whitebark pine/common juniper	PIAL/JUCO6
639	CAXX	mountain hemlock (subalpine parks)	TSME
639	CC	western red cedar	THPL
639	CCC0	western red cedar-important conifers	THPL-2TE
639	CCC1	western red cedar-Pacific yew	THPL-TABR2
639	CCC2	western red cedar-western hemlock	THPL-TSHE
639	CCC211	western redcedar/Pacific rhododendron/western twinflower	THPL/RHMA/LIBOL
639	CCC221	western redcedar/whipplevine/threeleaf anemone	THPL/WHMO/ANDE
639	CCF0	western red cedar/forb	THPL/2FORB
639	CCF1	western red cedar/common ladyfern	THPL/ATFI
639	CCF110	western red cedar/common ladyfern-coastal hedgenettle	THPL/ATFI-STCHC3
639	CCF121	western red cedar/common ladyfern	THPL/ATFI
639	CCF211	western red cedar-grand fir/sweet after death	THPL-ABGR/ACTR
639	CCF212	western red cedar/sweet after death	THPL/ACTR
639	CCF221	western red cedar/bride's bonnet	THPL/CLUN2

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
639	CCF222	western red cedar/wild sarsaparilla	THPL/ARNU2
639	CCFA	western red cedar/bride's bonnet-low forb	THPL/CLUN2-2FORB
639	CCM0	western red cedar (wetlands, moist to wet soil)	THPL
639	CCM1	western red cedar/American skunk cabbage (wetland)	THPL/LYAM3
639	CCM2	western red cedar/sedge (wetland)	THPL/CAREX
639	CCM3	western red cedar-lodgepole pine/labrador tea	THPL-PICO/LEDUM
639	CCS0	western red cedar/shrub	THPL/2SHRUB
639	CCS1	western red cedar/salmonberry-thimbleberry	THPL/RUSP-RUPA
639	CCS110	western red cedar/salmonberry-woodsorrel	THPL/RUSP-OXALI
639	CCS2	western red cedar/devilsclub	THPL/OPHO
639	CCS211	western red cedar/devilsclub	THPL/OPHO
639	CCS221	western red cedar-grand fir/devilsclub	THPL-ABGR/OPHO
639	CCS3	western red cedar/Oregon boxleaf-thinleaf huckleberry	THPL/PAMY-PAMY
639	CCS311	western red cedar/thinleaf huckleberry	THPL/VAME
639	CCS321	western red cedar/Oregon boxleaf	THPL/PAMY
639	CCS4	western red cedar/Sitka alder	THPL/ALVIS
639	CCS5	western red cedar/salal-creeping barberry	THPL/GASH-MARE11
639	CD	Douglas-fir	PSME
639	CDC0	Douglas-fir with important conifers	PSME-2TE
639	CDC1	Douglas-fir-Port Orford cedar/Pacific yew	PSME-CHLA/TABR2
639	CDC2	Douglas-fir-sugar pine (S.W. Oregon)	PSME-PILA
639	CDC3	Douglas-fir-incense cedar (S.W. Oregon, Douglas-fir infertile)	PSME-CADE27
639	CDC4	Douglas-fir-white fir-grand fir	PSME-ABCO-ABGR
639	CDC412	Douglas-fir-white fir-ponderosa pine	PSME-ABCO-PIPO
639	CDC431	Douglas-fir-white fir/creambush oceanspray	PSME-ABCO/HODI
639	CDC432	Douglas-fir-White fir/dwarf Oregon grape	PSME-ABCO/BENE
639	CDC5	Douglas-fir-ponderosa pine-Jeffrey pine (S. Oregon)	PSME-PIPO-PIJE
639	CDC511	ponderosa pine-Douglas-fir/antelope bitterbrush-snowbrush ceanothus	PIPO-PSME/PUTR2-CEVE
639	CDC512	ponderosa pine-Douglas-fir/snowberry	PIPO-PSME/SYMPH
639	CDC6	Douglas-fir-redwood	PSME-SESE3
639	CDC7	Douglas-fir-western hemlock	PSME-TSHE
639	CDC711	Douglas-fir-western hemlock/Cascade barberry	PSME-TSHE/MANE2
639	CDC712	Douglas-fir-western hemlock/Pacific rhododendron	PSME-TSHE/RHMA3
639	CDC713	Douglas-fir-western hemlock/salal	PSME-TSHE/GASH
639	CDF0	Douglas-fir/forb	PSME/2FORB
639	CDF1	Douglas-fir/common beargrass	PSME/XETE
639	CDF2	Douglas-fir/twinflower	PSME/LIBO3
639	CDF211	Douglas-fir/twinflower	PSME/LIBO3
639	CDF3	Douglas-fir/arnica-low forbs	PSME/ARNIC-2FORB
639	CDF311	Douglas-fir/heartleaf arnica	PSME/ARCO9
639	CDF312	Douglas-fir/sweetroot	PSME/OSMOR
639	CDF4	Douglas-fir/forb (medium-tall)	PSME/2FORB
639	CDF411	Douglas-fir/bush penstemon	PSME/PEFR3
639	CDF911	Douglas-fir/depauperate	PSME/DEPAUPERATE
639	CDG0	Douglas-fir/grass	PSME/2GRAM
639	CDG1	Douglas-fir/pinegrass-Geyer's sedge	PSME/CARU-CAGE2

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
639	CDG111	Douglas-fir/Geyer's sedge (Blue Mountains)	PSME/CAGE2
639	CDG112	Douglas-fir/pinegrass (Blue Mountains)	PSME/CARU
639	CDG113	Douglas-fir/pinegrass (Idaho)	PSME/CARU
639	CDG121	Douglas-fir/pinegrass	PSME/CARU
639	CDG122	Douglas-fir/pinegrass-kinnikinnick	PSME/CARU-ARUV
639	CDG123	Douglas-fir/kinnikinnick (Okanogan)	PSME/ARUV
639	CDG131	Douglas-fir/pinegrass (Okanogan and Colville)	PSME/CARU
639	CDG132	Douglas-fir/Geyer's sedge (Wenatchee)	PSME/CAGE2
639	CDG134	Douglas-fir/pinegrass-bluebunch wheatgrass	PSME/CARU-PSSPS
639	CDG141	Douglas-fir/Geyer's sedge	PSME/CAGE2
639	CDG142	Douglas-fir/Geyer's sedge (Idaho)	PSME/CAGE2
639	CDG2	Douglas-fir/blue wildrye	PSME/ELGL
639	CDG3	Douglas-fir/bunchgrass	PSME/2GRAM
639	CDG311	ponderosa pine-Douglas-fir/bluebunch wheatgrass	PIPO-PSME/PSSPS
639	CDG321	Douglas-fir/western fescue	PSME/FEOC
639	CDG322	Douglas-fir/bluebunch wheatgrass (Wenatchee)	PSME/PSSPS
639	CDG323	Douglas-fir/bluebunch wheatgrass-Indian's dream	PSME/PSSPS-ASDE6
639	CDG331	Douglas-fir/bluebunch wheatgrass	PSME/PSSPS
639	CDG332	Douglas-fir/Idaho fescue	PSME/FEID
639	CDG8	Douglas-fir/subalpine sedge	PSME/CAREX
639	CDH0	Douglas-fir-important hardwoods	PSME-2TD
639	CDH1	Douglas-fir/tanoak	PSME/LIDE3
639	CDH111	Douglas-fir-tanoak/salal	PSME-LIDE3/GASH
639	CDH112	Douglas-fir/Pacific rhododendron	PSME/RHMA
639	CDH121	Douglas-fir-tanoak-sugar pine	PSME-LIDE3-PILA
639	CDH131	Douglas-fir-tanoak	PSME-LIDE3
639	CDH141	Douglas-fir-tanoak-canyon live oak	PSME-LIDE3-QUCH
639	CDH142	Douglas-fir-tanoak/poison oak	PSME-LIDE3/RHDI
639	CDH2	Douglas-fir/Pacific madrone	PSME/ARME
639	CDH3	Douglas-fir/Oregon white oak	PSME/QUGA4
639	CDH311	Douglas-fir-Oregon white oak/poison oak	PSME-QUGA/RHDI
639	CDH4	Douglas-fir/bigleaf maple	PSME/ACMA3
639	CDH5	Douglas-fir/chinquapin-canyon live oak	PSME/CHRYS15- QUCH2
639	CDH6	Douglas-fir/California laurel-California buckthorn	PSME/UMCA- FRCA12
639	CDRR	Douglas-fir (rocky)	PSME
639	CDRS	Douglas-fir (steep, with little ground vegetation)	PSME
639	CDRX	Douglas-fir (rocky, steep with little ground vegetation)	PSME
639	CDS0	Douglas fir/kinnikinnick	PSME/ARUV
639	CDS1	Douglas-fir/canyon live oak-Pacific poison oak-rose	PSME/QUCH2-TODI- ROSA5
639	CDS111	Douglas-fir/poison oak-Piper's Oregon grape	PSME/RHDI-BEPI
639	CDS112	Douglas-fir/poison oak	PSME/RHDI
639	CDS151	Douglas-fir/oceanspray	PSME/HODI
639	CDS2	Douglas-fir/oceanspray-vine maple	PSME/HODI-ACCI
639	CDS211	Douglas-fir/oceanspray-Cascade barberry	PSME/HODI-MANE2
639	CDS212	Douglas-fir/oceanspray/grass	PSME/HODI/2GRAM
639	CDS213	Douglas-fir/oceanspray-common whipplea	PSME/HODI-WHMO

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
639	CDS221	Douglas-fir/oceanspray-dwarf rose	PSME/HODI-ROGY
639	CDS231	Douglas-fir/oceanspray/Geyer's sedge	PSME/HODI/CAGE2
639	CDS241	Douglas-fir/vine maple/western fescue	PSME/ACCI/FEOC
639	CDS252	Douglas-fir/vine maple/salal	PSME/ACCI/GASH
639	CDS253	Douglas-fir/vine maple/Cascade barberry	PSME/ACCI/MANE2
639	CDS254	Douglas-fir/vine maple/common whipplea	PSME/ACCI/WHMO
639	CDS255	Douglas-fir/salal	PSME/GASH
639	CDS3	Douglas-fir/rhododendron-hazelnut-dogwood	PSME/RHODO-CORYL-CORNU
639	CDS311	Douglas-fir-western hemlock/California hazelnut (steep, shallow soil)	PSME-TSHE/COCOC
639	CDS4	Douglas-fir/ceanothus-manzanita-Oregon boxleaf	PSME/CEANO-ARCTO3-PAMY
639	CDS411	Douglas-fir/Oregon boxleaf (Okanogan)	PSME/PAMY
639	CDS412	Douglas-fir/Oregon boxleaf/pinegrass	PSME/PAMY/CARU
639	CDS421	Douglas-fir/buckbrush	PSME/CECU
639	CDS5	Douglas-fir/salal-creeping barberry	PSME/GASH-MARE11
639	CDS511	Douglas-fir/creeping barberry	PSME/MARE11
639	CDS512	Douglas-fir/dwarf Oregon grape/western sword-fern	PSME/BENE/POMU
639	CDS531	Douglas-fir/salal/western sword-fern	PSME/GASH/POMU
639	CDS6	Douglas-fir/spirea-common snowberry-kinnikinnick	PSME/SPIRA-SYAL-ARUV
639	CDS611	Douglas-fir/oceanspray	PIPO-PSME/HODI
639	CDS612	Douglas-fir-white fir/common snowberry/twinflower	PSME-ABCO/SYAL/LIBO3
639	CDS613	Douglas-fir-white fir/common snowberry/forb	PSME-ABCO/SYAL/2FORB
639	CDS614	Douglas-fir-white fir/common snowberry/pinegrass	PSME-ABCO/SYAL/CARU
639	CDS621	Douglas-fir/common snowberry (same as CDS633)	PSME/SYAL
639	CDS622	Douglas-fir/common snowberry (Wallowa)	PSME/SYAL
639	CDS623	Douglas-fir/mountain snowberry (Wallowa)	PSME/SYOR2
639	CDS624	Douglas-fir/common snowberry (Blue Mountains)	PSME/SYAL
639	CDS625	Douglas-fir/mountain snowberry (Blue Mountains)	PSME/SYOR2
639	CDS626	Douglas-fir/mountain snowberry (Idaho)	PSME/SYOR2
639	CDS627	Douglas-fir/common snowberry (Idaho)	PSME/SYAL
639	CDS628	Douglas-fir/common snowberry (floodplain)	PSME/SYAL
639	CDS631	Douglas-fir/kinnikinnick-antelope bitterbrush	PSME/ARUV-PUTR2
639	CDS632	Douglas-fir/mountain snowberry (Okanogan and Colville)	PSME/SYOR2
639	CDS633	Douglas-fir/common snowberry	PSME/SYAL
639	CDS634	Douglas-fir/white spirea	PSME/SPBE2
639	CDS635	Douglas-fir/white spirea (Idaho)	PSME/SPBE2
639	CDS636	Douglas-fir/common snowberry (Wenatchee)	PSME/SYAL
639	CDS637	Douglas-fir/common snowberry/bluebunch wheatgrass	PSME/SYAL/PSSPS
639	CDS638	Douglas-fir/common snowberry/pinegrass	PSME/SYAL/CARU
639	CDS639	Douglas-fir/shinyleaf spirea/pinegrass	PSME/SPBEL/CARU
639	CDS640	Douglas-fir/shinyleaf spirea	PSME/SPBEL
639	CDS641	Douglas-fir/creeping snowberry	PSME/SYMO
639	CDS651	Douglas-fir/kinnikinnick	PSME/ARUV

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
639	CDS652	Douglas-fir/kinnikinnick (Mt. Rainier)	PSME/ARUV
639	CDS653	Douglas-fir/kinnikinnick (Wenatchee)	PSME/ARUV
639	CDS654	Douglas-fir/kinnikinnick-antelope bitterbrush	PSME/ARUV-PUTR2
639	CDS655	Douglas-fir/kinnikinnick/pinegrass	PSME/ARUV/CARU
639	CDS661	Douglas-fir/common snowberry (Mt. Hood)	PSME/SYAL
639	CDS662	Douglas-fir/pinemat manzanita	PSME/ARNE
639	CDS671	Douglas-fir/common juniper	PSME/JUCO6
639	CDS672	Douglas-fir/curl-leaf mountain mahogany	PSME/CELE3
639	CDS673	Douglas-fir/antelope bitterbrush	PSME/PUTR2
639	CDS674	Douglas-fir/antelope bitterbrush/bluebunch wheatgrass	PSME/PUTR2/PSSPS
639	CDS675	Douglas-fir/antelope bitterbrush/pinegrass	PSME/PUTR2/CARU
639	CDS7	Douglas-fir/mallow ninebark	PSME/PHMA5
639	CDS711	Douglas-fir/mallow ninebark (Blue Mountains)	PSME/PHMA5
639	CDS715	Douglas-fir/mallow ninebark (Okanogan and Colville)	PSME/PHMA5
639	CDS716	Douglas-fir/mallow ninebark/longtube twinflower	PSME/PHMA5/LIBO L2
639	CDS717	Douglas-fir/mallow ninebark (Idaho)	PSME/PHMA5
639	CDS721	Douglas-fir/mallow ninebark (Daubenmier)	PSME/PHMA5
639	CDS722	Douglas-fir/Rocky Mountain maple-mallow ninebark	PSME/ACGL-PHMA5
639	CDS723	Douglas-fir/Rocky Mountain maple	PSME/ACGL
639	CDS724	Douglas-fir/Rocky Mountain maple (floodplain)	PSME/ACGL
639	CDS8	Douglas-fir/blueberry	PSME/VACCI
639	CDS811	Douglas-fir/blueberry	PSME/VACCI
639	CDS812	Douglas-fir/thinleaf huckleberry	PSME/VAME
639	CDS813	Douglas-fir/dwarf bilberry (Colville)	PSME/VACA13
639	CDS814	Douglas-fir/thinleaf huckleberry (Colville)	PSME/VAME
639	CDS815	Douglas-fir/dwarf bilberry	PSME/VACA13
639	CDS821	Douglas-fir/thinleaf huckleberry (Blue Mountains)	PSME/VAME
639	CDS822	Douglas-fir/thinleaf huckleberry	PSME/VAME
639	CDS831	Douglas-fir/dwarf bilberry	PSME/VACA13
639	CDS832	Douglas-fir/velvetleaf huckleberry (Wenatchee)	PSME/VAMY
639	CDS833	Douglas-fir/velvetleaf huckleberry/pinegrass	PSME/VAMY/CARU
639	CSDSD	Douglas-fir/shrub(dry)	PSME/2SHRUB
639	CE	subalpine fir-Engelmann spruce (closed forest)	ABLA-PIEN
639	CEC0	subalpine fir-Engelmann spruce-associated conifers	ABLA-PIEN-2TE
639	CEC1	subalpine fir-lodgepole pine	ABLA-PICO
639	CEC2	Engelmann spruce-fir	PIEN-ABIES
639	CEF0	subalpine fir-spruce/forbs	ABLA-PICEA/2FORB
639	CEF1	subalpine fir-spruce/common beargrass	ABLA-PICEA/XETE
639	CEF111	subalpine fir/common beargrass	ABLA/XETE
639	CEF2	subalpine fir-spruce/twinflower	ABLA-PICEA/LIBO3
639	CEF211	subalpine fir/twinflower (Okanogan and Colville)	ABLA/LIBO3
639	CEF221	subalpine fir/twinflower	ABLA/LIBO3
639	CEF222	subalpine fir/twinflower (Wenatchee)	ABLA/LIBO3
639	CEF231	subalpine fir/twinflower (Idaho)	ABLA/LIBO3
639	CEF3	subalpine fir-spruce/tall forb	ABLA-PICEA/2FORB
639	CEF311	subalpine fir/claspleaf twistedstalk	ABLA/STAM2
639	CEF321	subalpine fir/broadleaf lupine	ABLA/LULA4
639	CEF331	subalpine fir/Carolina bugbane (Blue Mountains)	ABLA/TRCA

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
639	CEF332	subalpine fi/common ladyfern	ABLA/ATFI
639	CEF333	subalpine fir/arrowleaf ragwort	ABLA/SETR
639	CEF334	Engelmann spruce/common ladyfern	PIEN/ATFI
639	CEF335	Engelmann spruce/arrowleaf ragwort	PIEN/SETR
639	CEF341	subalpine fir/Sitka valerian	ABLA/VASI
639	CEF4	subalpine fir/forb (short)	ABLA/2FORB
639	CEF411	subalpine fir/Jacob's-ladder	ABLA/POPU3
639	CEF421	subalpine fir/bride's bonnet (Rocky Mountains)	ABLA/CLUN2
639	CEF422	subalpine fir/Carolina bugbane	ABLA/TRCA
639	CEF423	subalpine fir/bunchberry dogwood	ABLA/COCA13
639	CEF424	subalpine fir/broadleaf arnica-Jacob's-ladder	ABLA/ARLA8-POPU3
639	CEF431	subalpine fir/hypnum moss	ABLA/HYPAP
639	CEF432	subalpine fir/Howell's marsh marigold	ABLA/CALEH2
639	CEF433	subalpine fir/claspleaf twistedstalk (Rocky Mountains)	ABLA/STAM2
639	CEF434	subalpine fir/Oregon goldthread	ABLA/COLA3
639	CEF435	subalpine fir/heartleaf arnica	ABLA/ARCO9
639	CEFM	subalpine fir/forb (mesic)	ABLA/2FORB
639	CEFW	subalpine fir/forb (wet)	ABLA/2FORB
639	CEG0	subalpine fir-spruce/grass	ABLA-PICEA/2GRAM
639	CEG1	subalpine fir-spruce/woodrush	ABLA-PICEA/LUZUL
639	CEG111	subalpine fir/Hitchcock's smooth woodrush	ABLA/LUGLH
639	CEG121	subalpine fir/Hitchcock's smooth woodrush (Wenatchee)	ABLA/LUGLH
639	CEG2	subalpine fir-spruce/sedge	ABLA-PICEA/CAREX
639	CEG211	subalpine fir/Geyer's sedge	ABLA/CAGE2
639	CEG3	subalpine fir-spruce/grass	ABLA-PICEA/2GRAM
639	CEG310	subalpine fir/pinegrass (Wenatchee)	ABLA/CARU
639	CEG311	subalpine fir/pinegrass (Okanogan and Colville)	ABLA/CARU
639	CEG312	subalpine fir/pinegrass	ABLA/CARU
639	CEG321	subalpine fir/pinegrass (Idaho)	ABLA/CARU
639	CEG322	subalpine fir/bluejoint	ABLA/CACA4
639	CEM0	subalpine fir-Engelmann spruce (wetlands)	ABLA-PIEN
639	CEM1	subalpine fir-Engelmann spruce/grass-sedge (wetlands)	ABLA-PIEN/2GRAM-CAREX
639	CEM111	Engelmann spruce/widefruit sedge	PIEN/CAAN15
639	CEM121	Engelmann spruce/softleaf sedge	PIEN/CADI6
639	CEM2	subalpine fir-Engelmann spruce/forb (wetlands)	ABLA-PIEN/2FORB
639	CEM211	Engelmann spruce/field horsetail	PIEN/EQAR
639	CEM212	Engelmann spruce/field horsetail (Idaho)	PIEN/EQAR
639	CEM213	Engelmann spruce/fragrant bedstraw	PIEN/GATR3
639	CEM221	Engelmann spruce/field horsetail-twistedstalk	PIEN/EQAR-STREP3
639	CEM222	Engelmann spruce/bride's bonnet	PIEN/CLUN2
639	CEM3	subalpine fir-Engelmann spruce/shrub (short, wetlands)	ABLA-PIEN/2SHRUB
639	CEM311	Engelmann spruce/bog blueberry/forb	PIEN/VAUL/2FORB
639	CEM312	Engelmann spruce/bog blueberry/widefruit sedge	PIEN/VAUL/CAAN15
639	CERR	subalpine fir (rocky with little ground vegetation)	ABLA
639	CERS	subalpine fir (steep with little ground vegetation)	ABLA
639	CERX	subalpine fir (rocky, steep with little ground vegetation)	ABLA
639	CES0	subalpine fir-spruce/shrub	ABLA-PICEA/2SHRUB

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
639	CES1	subalpine fir-spruce/Oregon boxleaf	ABLA-PICEA/PAMY
639	CES111	subalpine fir/Oregon boxleaf (Okanogan)	ABLA/PAMY
639	CES112	subalpine fir/Oregon boxleaf/pinegrass	ABLA/PAMY/CARU
639	CES113	subalpine fir/Oregon boxleaf (Wenatchee)	ABLA/PAMY
639	CES121	subalpine fir/Oregon boxleaf (Daubenmeir)	ABLA/PAMY
639	CES131	subalpine fir/bride's bonnet	ABLA/CLUN2
639	CES141	subalpine fir/Douglas maple	ABLA/ACGLD4
639	CES142	subalpine fir/Sitka alder	ABLA/ALVIS
639	CES143	subalpine fir/white spirea	ABLA/SPBE2
639	CES2	subalpine fir-spruce/rusty menziesia-rhododendron	ABLA-PICEA/MEFE-RHODO
639	CES210	subalpine fir/Cascade azalea/common beargrass	ABLA/RHAL2/XETE
639	CES211	subalpine fir/Cascade azalea	ABLA/RHAL2
639	CES212	subalpine fir/Cascade azalea (Olympic)	ABLA/RHAL2
639	CES213	subalpine fir/Cascade azalea/Hitchcock's smooth woodrush	ABLA/RHAL2/LUGLH
639	CES221	subalpine fir/rusty menziesia	ABLA/MEFE
639	CES231	subalpine fir/rusty menziesia (Idaho)	ABLA/MEFE
639	CES232	subalpine fir/gooseberry currant	ABLA/RIMO2
639	CES3	subalpine fir-spruce/thinleaf huckleberry	ABLA-PICEA/VAME
639	CES311	subalpine fir/thinleaf huckleberry (Blue Mountains)	ABLA/VAME
639	CES312	subalpine fir/blueberry	ABLA/VACCI
639	CES313	subalpine fir/thinleaf huckleberry (Colville)	ABLA/VAME
639	CES314	subalpine fir/bride's bonnet (Blue Mountains)	ABLA/CLUN2
639	CES315	subalpine fir/thinleaf huckleberry (Wallowa)	ABLA/VAME
639	CES321	subalpine fir/thinleaf huckleberry (Olympic)	ABLA/VAME
639	CES331	subalpine fir/thinleaf huckleberry	ABLA/VAME
639	CES341	subalpine fir/Cascade bilberry	ABLA/VADE
639	CES342	subalpine fir/thinleaf huckleberry (Wenatchee)	ABLA/VAME
639	CES4	subalpine fir-spruce/grouse whortleberry-pinemat manzanita	ABLA-PICEA/VASC-ARNE
639	CES411	subalpine fir/grouse whortleberry (Blue Mountains)	ABLA/VASC
639	CES412	subalpine fir/grouse whortleberry (Okanogan and Colville)	ABLA/VASC
639	CES413	subalpine fir/grouse whortleberry/pinegrass (Okanogan)	ABLA/VASC/CARU
639	CES414	subalpine fir/twinflower	ABLA/LIBO3
639	CES415	subalpine fir/grouse whortleberry/Jacob's-ladder	ABLA/VASC/POPU3
639	CES421	subalpine fir/grouse whortleberry (Daubenmeir)	ABLA/VASC
639	CES422	subalpine fir/dwarf bilberry	ABLA/VACA13
639	CES423	subalpine fir/roughfruit berry	ABLA/RULA2
639	CES424	subalpine fir/grouse whortleberry/broadleaf arnica	ABLA/VASC/ARLA8
639	CES425	subalpine fir/grouse whortleberry/Hitchcock's smooth woodrush	ABLA/VASC/LUGLH
639	CES426	subalpine fir/grouse whortleberry (Wenatchee)	ABLA/VASC
639	CES5	subalpine fir/snowberry-dogwood	ABLA/SYMPH-CORNU
639	CES511	Engelmann spruce/redosier dogwood	PIEN/COSES
639	CES6	subalpine fir-spruce/mountainheath-laborador tea	ABLA-PICEA/PHYLL3-LEDUM
639	CES611	subalpine fir/pink mountainheath	ABLA/PHEM

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
639	CES621	subalpine fir/common juniper	ABLA/JUCO6
639	CES631	subalpine fir/common juniper (Idaho)	ABLA/JUOC6
639	CES7	subalpine fir-spruce/devilsclub	ABLA-PICEA/OPHO
639	CEX104	Malheur (04) 2A: slope less 30%	
639	CEX204	Malheur (04) 2B: slope 30-70%	
639	CF	Pacific silver fir-noble fir	ABAM-ABPR
639	CFC0	Pacific silver fir-noble fir-associated conifers	ABAM-ABPR-2TE
639	CFC1	Pacific silver fir-mountain hemlock	ABAM-TSME
639	CFC151	Pacific silver fir-mountain hemlock/common beargrass	ABAM-TSME/XETE
639	CFC2	Pacific silver fir-western hemlock	ABAM-TSHE
639	CFC251	Pacific silver fir-western hemlock/Pacific rhododendron-salal	ABAM-TSHE/RHMA3-GASH
639	CFC261	Pacific silver fir-western hemlock/queen's cup	ABAM-TSHE/CLUN
639	CFC3	Pacific silver fir-white fir-grand fir	ABAM-ABCO-ABGR
639	CFC311	Pacific silver fir-grand fir/starry false lily of the valley	ABAM-ABGR/MAST4
639	CFC4	Pacific silver fir-Alaska cedar (Alaska cedar dominant)	ABAM-CHNO
639	CFC411	Pacific silver fir-Alaska cedar/oval-leaf blueberry	ABAM-CHNO/VAOV
639	CFC412	Alaska cedar/oval-leaf blueberry	CHNO/VAOV
639	CFF0	Pacific silver fir-noble fir/forbs	ABAM-ABPR/2FORB
639	CFF1	Pacific silver fir-noble fir/woodsorrel-twistedstalk-foamflower-bluebead	ABAM-ABPR/OXALI-STREP3-TIARE-CLINT
639	CFF111	Pacific silver fir/redwood-sorrel (Olympic)	ABAM/OXOR
639	CFF141	Pacific silver fir/bride's bonnet (Warm Springs)	ABAM/CLUN2
639	CFF151	Pacific silver fir/bride's bonnet	ABAM/CLUN2
639	CFF152	Pacific silver fir/oneleaf foamflower	ABAM/TITRU
639	CFF153	Pacific silver fir/redwood-sorrel	ABAM/OXOR
639	CFF154	Pacific silver fir/oneleaf foamflower-twistedstalk	ABAM/TITRU-STLAR
639	CFF161	Pacific silver fir/oneleaf foamflower	ABAM/TITRU
639	CFF162	Pacific silver fir/oneleaf foamflower	ABAM/TITRU
639	CFF2	Pacific silver fir-noble fir/sweet after death	ABAM-ABPR/ACTR
639	CFF211	Pacific silver fir/sweet after death-oneleaf foamflower	ABAM/ACTR-TITRU
639	CFF250	Pacific silver fir/sweet after death (Mt. Baker-Snoqualmie)	ABAM/ACTR
639	CFF251	noble fir/sweet after death	ABPR/ACTR
639	CFF252	Pacific silver fir/sweet after death	ABAM/ACTR
639	CFF253	Pacific silver fir/sweet after death-bride's bonnet	ABAM/ACTR-CLUN2
639	CFF254	Pacific silver fir/sweet after death (Wenatchee)	ABAM/ACTR
639	CFF3	Pacific silver fir-noble fir/common beargrass	ABAM-ABPR/XETE
639	CFF311	Pacific silver fir/common beargrass (Olympic)	ABAM/XETE
639	CFF312	Pacific silver fir/common beargrass (Mt. Baker)	ABAM/XETE
639	CFF321	Pacific silver fir/common beargrass (Warm Springs)	ABAM/XETE
639	CFF4	Pacific silver fir-noble fir/blue windflower-wildginger-wintergreen	ABAM-ABPR/ANOR-ASARU-PYROL
639	CFF450	Pacific silver fir/strawberryleaf raspberry-deer fern	ABAM/RUPE-BLSP
639	CFF5	Pacific silver fir-noble fir/twinflower	ABAM-ABPR/LIBO3
639	CFF6	Pacific silver fir-noble fir/western swordfern	ABAM-ABPR/POMU
639	CFF611	Pacific silver fir/western swordfern	ABAM/POMU
639	CFF612	Pacific silver fir/western swordfern-redwood-sorrel	ABAM/POMU-OXOR
639	CFF911	Pacific silver fir (depauperate)	ABAM

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
639	CFFM	Pacific silver fir/forb (mesic)	ABAM/2FORB
639	CFFS	Pacific silver fir/forb-shrub	ABAM/2FORB-2SHRUB
639	CFG0	Pacific silver fir/grass	ABAM/2GRAM
639	CFM0	Pacific silver fir-noble fir (wetlands)	ABAM-ABPR
639	CFM1	Pacific silver fir-noble fir/American skunkcabbage	ABAM-ABPR/LYAM3
639	CFM111	Pacific silver fir/American skunkcabbage	ABAM/LYAM3
639	CFRR	Pacific silver fir-noble fir (rocky, little ground vegetation)	ABAM-ABPR
639	CFRS	Pacific silver fir-noble fir (steep, little ground vegetation)	ABAM-ABPR
639	CFRX	Pacific silver fir-noble fir (rocky, steep with scant ground vegetation)	ABAM-ABPR
639	CFS0	Pacific silver fir-noble fir/shrub	ABAM-ABPR/2SHRUB
639	CFS1	Pacific silver fir-noble fir/Cascade barberry-salal	ABAM-ABPR/MANE2-GASH
639	CFS110	Pacific silver fir/Cascade barberry (Mt. Baker-Snoqualmie)	ABAM/MANE2
639	CFS151	Pacific silver fir/Cascade barberry	ABAM/MANE2
639	CFS152	Pacific silver fir/salal (Gifford Pinchot)	ABAM/GASH
639	CFS154	Pacific silver fir/salal-Cascade barberry	ABAM/GASH-MANE2
639	CFS155	Pacific silver fir/salal/deer fern	ABAM/GASH/BLSP
639	CFS156	Pacific silver fir/salal/redwood-sorrel	ABAM/GASH/OXOR
639	CFS2	Pacific silver fir-noble fir/thinleaf huckleberry-rusty menziesia-Oregon boxleaf	ABAM-ABPR/VAME-MEFE-PAMY
639	CFS211	Pacific silver fir/thinleaf huckleberry/common beargrass (Olympic)	ABAM/VAME/XETE
639	CFS212	Pacific silver fir/oval-leaf blueberry (Olympic)	ABAM/VAOV
639	CFS213	Pacific silver fir/oval-leaf blueberry/white avalanche-lily	ABAM/VAOV/ERMO8
639	CFS214	Pacific silver fir/oval-leaf blueberry/common beargrass (Olympic)	ABAM/VAOV/XETE
639	CFS215	Pacific silver fir/oval-leaf blueberry/oneleaf foamflower	ABAM/VAOV/TITRU
639	CFS216	Pacific silver fir/oval-leaf blueberry-Cascade barberry	ABAM/VAOV-MANE2
639	CFS217	Pacific silver fir/oval-leaf blueberry/redwood-sorrel	ABAM/VAOV/OXOR
639	CFS218	Pacific silver fir/oval-leaf blueberry/bride's bonnet (Olympic)	ABAM/VAOV/CLUN2
639	CFS219	Pacific silver fir/oval-leaf blueberry/twinflower	ABAM/VAOV/LIBO3
639	CFS220	Pacific silver fir/oval-leaf blueberry-Cascade azalea	ABAM/VAOV-RHAL2
639	CFS221	Pacific silver fir/thinleaf huckleberry/Sitka valerian	ABAM/VAME/VASI
639	CFS222	Pacific silver fir/thinleaf huckleberry/twistedstalk	ABAM/VAME/STLAR
639	CFS223	Pacific silver fir/thinleaf huckleberry-oval-leaf blueberry	ABAM/VAME-VAOV
639	CFS224	Pacific silver fir/thinleaf huckleberry	ABAM/VAME
639	CFS225	Pacific silver fir/oval-leaf blueberry/false lily of the valley	ABAM/VAOV/MADI
639	CFS226	Pacific silver fir/oval-leaf blueberry/oneleaf foamflower (Mt. Baker-Snoqualmie)	ABAM/VAOV/TITRU
639	CFS228	Pacific silver fir/oval-leaf blueberry/sidebells wintergreen	ABAM/VAOV/ORSE
639	CFS229	Pacific silver fir/thinleaf huckleberry/sidebells wintergreen	ABAM/VAME/ORSE
639	CFS230	Pacific silver fir/oval-leaf blueberry-salal (Mt. Baker-Snoqualmie)	ABAM/VAOV-GASH
639	CFS231	Pacific silver fir/oval-leaf blueberry/western swordfern	ABAM/VAOV/POMU
639	CFS232	Pacific silver fir/oval-leaf blueberry (Wenatchee)	ABAM/VAOV

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
639	CFS233	Pacific silver fir/thinleaf huckleberry/bride's bonnet (Wenatchee)	ABAM/VAME/CLUN2
639	CFS234	Pacific silver fir/thinleaf huckleberry-sidebells wintergreen	ABAM/VAME-ORSE
639	CFS241	Pacific silver fir/oval-leaf blueberry (Mt. Rainier)	ABAM/VAOV
639	CFS242	Pacific silver fir/oval-leaf blueberry-strawberryleaf raspberry	ABAM/VAOV-RUPE
639	CFS251	Pacific silver fir/thinleaf huckleberry/common beargrass	ABAM/VAME/XETE
639	CFS252	Pacific silver fir/thinleaf huckleberry/common beargrass (Mt. Baker-Snoqualmie)	ABAM/VAME/XETE
639	CFS253	Pacific silver fir/oval-leaf blueberry/bunchberry dogwood	ABAM/VAOV/COCA13
639	CFS254	Pacific silver fir/rusty menziesia	ABAM/MEFE
639	CFS255	Pacific silver fir/oval-leaf blueberry-salal	ABAM/VAOV-GASH
639	CFS256	Pacific silver fir/thinleaf huckleberry/bride's bonnet	ABAM/VAME/CLUN2
639	CFS257	Pacific silver fir/oval-leaf blueberry	ABAM/VAOV
639	CFS258	Pacific silver fir/oval-leaf blueberry (Mt. Baker-Snoqualmie)	ABAM/VAOV
639	CFS259	Pacific silver fir/oval-leaf blueberry/common beargrass (Mt. Baker-Snoqualmie)	ABAM/VAOV/XETE
639	CFS260	Pacific silver fir/oval-leaf blueberry/bride's bonnet (Mt. Baker-Snoqualmie)	ABAM/VAOV/CLUN2
639	CFS3	Pacific silver fir-noble fir/devilsclub	ABAM-ABPR/OPHO
639	CFS311	Pacific silver fir/devilsclub (Olympic)	ABAM/OPHO
639	CFS321	Pacific silver fir/devilsclub (Mt. Rainier)	ABAM/OPHO
639	CFS351	Pacific silver fir/devilsclub	ABAM/OPHO
639	CFS352	Pacific silver fir/devilsclub-oval-leaf blueberry	ABAM/OPHO-VAOV
639	CFS4	Pacific silver fir-noble fir/grouse whortleberry	ABAM-ABPR/VASC
639	CFS411	Pacific silver fir/roughfruit berry	ABAM/RULA2
639	CFS412	Pacific silver fir/white avalanche-lily	ABAM/ERMO8
639	CFS413	Pacific silver fir/roughfruit berry (Wenatchee)	ABAM/RULA2
639	CFS5	Pacific silver fir-noble fir/Cascade azalea	ABAM-ABPR/RHAL2
639	CFS541	Pacific silver fir/rusty menziesia	ABAM/MEFE
639	CFS542	Pacific silver fir/rusty menziesia (Wenatchee)	ABAM/MEFE
639	CFS550	Pacific silver fir/Cascade azalea (Gifford Pinchot)	ABAM/RHAL2
639	CFS551	Pacific silver fir/Cascade azalea/common beargrass	ABAM/RHAL2/XETE
639	CFS552	Pacific silver fir/Cascade azalea/bride's bonnet	ABAM/RHAL2/CLUN2
639	CFS553	Pacific silver fir/Cascade azalea (Okanogan)	ABAM/RHAL2
639	CFS554	Pacific silver fir/Cascade azalea-thinleaf huckleberry	ABAM/RHAL2-VAME
639	CFS555	Pacific silver fir/Cascade azalea-oval-leaf blueberry	ABAM/RHAL2-VAOV
639	CFS556	Pacific silver fir/Cascade azalea-thinleaf huckleberry (Wenatchee)	ABAM/RHAL2-VAME
639	CFS558	Pacific silver fir/Oregon boxleaf	ABAM/PAMY
639	CFS6	Pacific silver fir-noble fir/Pacific rhododendron-vine maple	ABAM-ABPR/RHMA3-ACCI
639	CFS611	Pacific silver fir/Pacific rhododendron (Olympic)	ABAM/RHMA3
639	CFS612	Pacific silver fir/Pacific rhododendron-oval-leaf blueberry	ABAM/RHMA3-VAOV
639	CFS621	Pacific silver fir/vine maple	ABAM/ACCI
639	CFS641	Pacific silver fir/vine maple/foamflower	ABAM/ACCI/TITR
639	CFS651	Pacific silver fir/vine maple/oneleaf foamflower	ABAM/ACCI/TITRU

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
639	CFS652	Pacific silver fir/Pacific rhododendron-Cascade barberry	ABAM/RHMA3-MANE2
639	CFS653	Pacific silver fir/Pacific rhododendron/common beargrass	ABAM/RHMA3/XETE
639	CFS654	Pacific silver fir/Pacific rhododendron-oval-leaf blueberry/bunchberry dogwood	ABAM/RHMA3-VAOV/COCA13
639	CFSC	Pacific silver fir/shrub (cool)	ABAM/2SHRUB
639	CFSD	Pacific silver fir/shrub (dry)	ABAM/2SHRUB
639	CFSF	Pacific silver fir/shrub-forb (coastal)	ABAM/2SHRUB-2FORB
639	CFSM	Pacific silver fir/shrub (mesic)	ABAM/2SHRUB
639	CH	western hemlock	TSHE
639	CHC0	western hemlock-important conifers	TSHE-2TE
639	CHC1	western hemlock-Port Orford cedar	TSHE/CHLA
639	CHC111	western hemlock-Port-Orford cedar	TSHE-CHLA
639	CHC2	western hemlock-Douglas-fir/shrub (dry)	TSHE-PSME/2SHRUB
639	CHC211	western hemlock-Douglas-fir/beaked hazelnut (steep, shallow soil, Willamette)	TSHE-PSME/COCO6
639	CHC212	western hemlock-Douglas-fir/oceanspray	TSHE-PSME/HODI
639	CHC213	western hemlock-Douglas-fir-Pacific madrone	TSHE-PSME-ARME
639	CHC3	western hemlock-white fir-grand fir	TSHE-ABCO-ABGR
639	CHC311	western hemlock-grand fir/bride's bonnet	TSHE-ABGR/CLUN2
639	CHC341	western hemlock/dwarf Oregon grape/vanillaleaf (SWO)	TSHE/BENE/ACTR (SWO)
639	CHC4	western hemlock-western red cedar	TSHE-THPL
639	CHC412	western hemlock-Douglas-fir/salal	TSHE-PSME/GASH
639	CHC422	western hemlock/vine maple-snow bramble	TSHE/ACCI-RUNI
639	CHC441	western hemlock-bigleaf maple/western sword-fern	TSHE-ACMA/POMU
639	CHC442	western hemlock-western redcedar/Oregon oxalis	TSHE-THPL/OXOR
639	CHC461	western hemlock-western redcedar	TSHE-THPL
639	CHC5	western hemlock-Pacific silver fir	TSHE/ABAM
639	CHC551	western hemlock-Pacific silver fir/Pacific rhododendron-Cascade barberry	TSHE-ABAM/RHMA3-MANE2
639	CHC552	western hemlock-Pacific silver fir/Pacific rhododendron/twinflower	TSHE-ABAM/RHMA3/LIBO3
639	CHC553	western hemlock-Pacific silver fir/twinflower	TSHE-ABAM/LIBO3
639	CHC554	western hemlock-Pacific silver fir/thin-leaved huckleberry	TSHE-ABAM/VAME
639	CHC6	western hemlock-incense cedar	TSHE-CADE27
639	CHC611	western hemlock-white fir	TSHE-ABCO
639	CHC612	western hemlock-white fir/Pacific rhododendron	TSHE-ABCO/RHMA
639	CHC613	western hemlock-incense cedar/salal	TSHE-CADE3/GASH
639	CHC911	western hemlock/thin-leaved huckleberry/western twinflower	TSHE/VAME/LIBOL
639	CHC921	western hemlock-Pacific yew/Pacific rhododendron	TSHE-TABR/RHMA
639	CHF0	western hemlock/forbs	TSHE/2FORB
639	CHF1	western hemlock/western swordfern/redwood-sorrel	TSHE/POMU/OXOR
639	CHF111	western hemlock/redwood-sorrel (Willamette)	TSHE/OXOR
639	CHF112	western hemlock/redwood-sorrel (Olympic)	TSHE/OXOR
639	CHF121	western hemlock/redwood-sorrel (coastal)	TSHE/OXOR
639	CHF122	western hemlock/western swordfern (coastal)	TSHE/POMU
639	CHF123	western hemlock/western swordfern (Mt. Hood)	TSHE/POMU
639	CHF124	western hemlock/western swordfern-redwood-sorrel	TSHE/POMU-OXOR

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
639	CHF125	western hemlock/western swordfern (Gifford Pinchot)	TSHE/POMU
639	CHF131	western hemlock/western swordfern-redwood-sorrel (Olympic)	TSHE/POMU-OXOR
639	CHF132	western hemlock/western swordfern-threelaf foamflower (Olympic)	TSHE/POMU-TITR
639	CHF133	western hemlock/western swordfern-salal	TSHE/POMU-GASH
639	CHF134	western hemlock/western swordfern-Cascade barberry	TSHE/POMU-MANE2
639	CHF135	western hemlock/western swordfern-threelaf foamflower (Mt. Baker-Snoqualmie)	TSHE/POMU-TITR
639	CHF151	western hemlock/western swordfern (Willamette)	TSHE/POMU
639	CHF2	western hemlock/sweet after death-threelaf foamflower (dry)	TSHE/ACTR-TITR
639	CHF211	western hemlock/sweet after death (Olympic)	TSHE/ACTR
639	CHF221	western hemlock/sweet after death	TSHE/ACTR
639	CHF222	western hemlock/threelaf foamflower	TSHE/TITR
639	CHF223	western hemlock/sweet after death (Wenatchee)	TSHE/ACTR
639	CHF250	western hemlock/threelaf foamflower-western oakfern	TSHE/TITR-GYDR
639	CHF3	western hemlock/bride's bonnet-twinflower (mesic)	TSHE/CLUN2-LIBO3
639	CHF311	western hemlock/bride's bonnet	TSHE/CLUN2
639	CHF312	western hemlock/wild sarsaparilla	TSHE/ARNU2
639	CHF313	western hemlock/British Columbia wildginger	TSHE/ASCA2
639	CHF321	western hemlock/twinflower	TSHE/LIBO3
639	CHF4	western hemlock/fern	TSHE/2FERN
639	CHF421	western hemlock/common ladyfern	TSHE/ATFI
639	CHF422	western hemlock/Pacific oakfern	TSHE/GYDI2
639	CHF5	western hemlock/common beargrass	TSHE/XETE
639	CHF511	western hemlock/common beargrass (Olympic)	TSHE/XETE
639	CHF521	western hemlock/common beargrass (Colville)	TSHE/XETE
639	CHF531	western hemlock/common beargrass (Warm Springs)	TSHE/XETE
639	CHF911	western hemlock/depauperate	TSHE
639	CHH0	western hemlock-important hardwoods	TSHE-2TD
639	CHH1	western hemlock/tanoak-California laurel	TSHE/LIDE3-UMCA
639	CHH111	western hemlock-California laurel	TSHE-UMCA
639	CHH2	western hemlock/bigleaf maple	TSHE/ACMA3
639	CHH3	western hemlock/giant chinquapin	TSHE/CHCHC4
639	CHH351	western hemlock/giant chinquapin	TSHE/CHCHC4
639	CHH4	western hemlock/alder	TSHE/ALNUS
639	CHH5	western hemlock/oak	TSHE/QUERC
639	CHM0	western hemlock (wetlands, moist to wet soil)	TSHE
639	CHM1	western hemlock/American skunkcabbage (wetlands)	TSHE/LYAM3
639	CHM111	western hemlock/American skunkcabbage (Olympic)	TSHE/LYAM3
639	CHM121	western hemlock/American skunkcabbage	TSHE/LYAM3
639	CHS0	western hemlock/shrub	TSHE/2SHRUB
639	CHS1	western hemlock/salal-Cascade barberry	TSHE/GASH-MANE2
639	CHS111	western hemlock/salal (Willamette)	TSHE/GASH
639	CHS112	western hemlock/Pursh's buckthorn/salal (flat deep soil)	TSHE/FRPU7/GASH
639	CHS113	western hemlock/Cascade barberry/redwood-sorrel	TSHE/MANE2/OXOR
639	CHS114	western hemlock/Cascade barberry/sweet after death	TSHE/MANE2/ACTR
639	CHS121	western hemlock/Cascade barberry (coastal)	TSHE/MANE2
639	CHS122	western hemlock/Cascade barberry-salal (coastal)	TSHE/MANE2-GASH

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
639	CHS123	western hemlock/salal (coastal)	TSHE/GASH
639	CHS124	western hemlock/Cascade barberry-salal	TSHE/MANE2-GASH
639	CHS125	western hemlock/Cascade barberry	TSHE/MANE2
639	CHS126	western hemlock/Cascade barberry/western swordfern	TSHE/MANE2/POMU
639	CHS127	western hemlock/Cascade barberry-salal (Gifford Pinchot)	TSHE/MANE2-GASH
639	CHS128	western hemlock/salal (Gifford Pinchot)	TSHE/GASH
639	CHS129	western hemlock/salal (Mt. Baker-Snoqualmie)	TSHE/GASH
639	CHS130	western hemlock/Cascade barberry (Mt. Baker-Snoqualmie)	TSHE/MANE2
639	CHS131	western hemlock/salal (SWO)	TSHE/GASH (SWO)
639	CHS132	western hemlock/salal/common beargrass	TSHE/GASH/XETE
639	CHS133	western hemlock/salal-California huckleberry	TSHE/GASH-VAOV2
639	CHS134	western hemlock/salal-oceanspray	TSHE/GASH-HODI
639	CHS135	western hemlock/salal-Cascade barberry	TSHE/GASH-MANE2
639	CHS136	western hemlock/salal/redwood-sorrel	TSHE/GASH/OXOR
639	CHS137	western hemlock/salal/western swordfern	TSHE/GASH/POMU
639	CHS138	western hemlock/Cascade barberry (Olympic)	TSHE/MANE2
639	CHS139	western hemlock/Cascade barberry/western swordfern (Olympic)	TSHE/MANE2/POMU
639	CHS140	western hemlock/salal-thinleaf huckleberry	TSHE/GASH-VAME
639	CHS141	western hemlock/Cascade barberry/little prince's pine	TSHE/MANE2/CHME
639	CHS142	western hemlock/Cascade barberry (Wenatchee)	TSHE/MANE2
639	CHS143	western hemlock/Oregon boxleaf/bride's bonnet	TSHE/PAMY/CLUN2
639	CHS144	western hemlock/pinemat manzanita	TSHE/ARNE
639	CHS2	western hemlock/vine maple	TSHE/ACCI
639	CHS211	western hemlock/vine maple (Warm Springs)	TSHE/ACCI
639	CHS221	western hemlock/vine maple-salal (coastal)	TSHE/ACCI-GASH
639	CHS222	western hemlock/vine maple/western swordfern (coast)	TSHE/ACCI/POMU
639	CHS223	western hemlock/vine maple/sweet after death	TSHE/ACCI/ACTR
639	CHS224	western hemlock/Pacific dogwood/sweet after death	TSHE/CONU4/ACTR
639	CHS225	western hemlock/vine maple/sweet after death (Wenatchee)	TSHE/ACCI/ACTR
639	CHS226	western hemlock/vine maple/British Columbia wildginger	TSHE/ACCI/ASCA2
639	CHS227	western hemlock/vine maple/bride's bonnet	TSHE/ACCI/CLUN2
639	CHS251	western hemlock/vine maple-Cascade barberry	TSHE/ACCI-MANE2
639	CHS261	western hemlock-red alder/western sword-fern	TSHE-ALRU/POMU
639	CHS271	western hemlock/Douglas maple/western twinflower	TSHE/ACGL/LIBOL
639	CHS3	western hemlock/Pacific rhododendron	TSHE/RHMA3
639	CHS311	western hemlock-Pacific silver fir/Pacific rhododendron (rolling, deep, Willamette)	TSHE-ABAM/RHMA3
639	CHS312	western hemlock/Pacific rhododendron-vine maple (steep, deep, Willamette)	TSHE/RHMA3-ACCI
639	CHS313	western hemlock/vine maple-Pacific rhododendron (unstable, Willamette)	TSHE/ACCI-RHMA3
639	CHS321	western hemlock/Pacific rhododendron-Cascade barberry (coast)	TSHE/RHMA3-MANE2
639	CHS322	western hemlock/Pacific rhododendron-salal (coast)	TSHE/RHMA3-GASH
639	CHS323	western hemlock/Pacific rhododendron/western swordfern (coast)	TSHE/RHMA3/POMU
639	CHS324	western hemlock/Pacific rhododendron-California huckleberry (coast)	TSHE/RHMA3-VAOV2

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
639	CHS325	western hemlock/Pacific rhododendron/common beargrass (Mt. Hood)	TSHE/RHMA3/XETE
639	CHS326	western hemlock/Pacific rhododendron-oval-leaf blueberry/bunchberry dogwood	TSHE/RHMA3-VAOV/COCA13
639	CHS327	western hemlock/Pacific rhododendron-salal (Mt. Hood)	TSHE/RHMA3-GASH
639	CHS328	western hemlock/Pacific rhododendron-Cascade barberry (Mt. Hood)	TSHE/RHMA3-MANE2
639	CHS329	western hemlock/Pacific rhododendron (Warm Springs)	TSHE/RHMA3
639	CHS331	western hemlock/Pacific rhododendron (SWO)	TSHE/RHMA (SWO)
639	CHS332	western hemlock/Pacific rhododendron/common beargrass (Olympic)	TSHE/RHMA3/XETE
639	CHS333	western hemlock/Pacific rhododendron-Cascade barberry (Olympic)	TSHE/RHMA3-MANE2
639	CHS334	western hemlock/Pacific rhododendron-salal (Olympic)	TSHE/RHMA3-GASH
639	CHS335	western hemlock/Pacific rhododendron/western swordfern (Olympic)	TSHE/RHMA3/POMU
639	CHS341	western hemlock/Pacific rhododendron/western twinflower (SWO)	TSHE/RHMA/LIBOL (SWO)
639	CHS351	western hemlock/Pacific rhododendron-salal (Willamette)	TSHE/RHMA3-GASH
639	CHS352	western hemlock/Pacific rhododendron-Cascade barberry (Willamette)	TSHE/RHMA3-MANE2
639	CHS353	western hemlock/Pacific rhododendron/common beargrass (Willamette)	TSHE/RHMA3/XETE
639	CHS354	western hemlock/Pacific rhododendron/redwood-sorrel	TSHE/RHMA3/OXOR
639	CHS355	western hemlock/Pacific rhododendron/twinflower	TSHE/RHMA3/LIBO3
639	CHS4	western hemlock/thimbleberry-salmonberry (mesic)	TSHE/RUPA-RUSP
639	CHS411	western hemlock/strawberryleaf raspberry	TSHE/RUPE
639	CHS421	western hemlock/salmonberry (coastal)	TSHE/RUSP
639	CHS422	western hemlock/salmonberry-vine maple (coast)	TSHE/RUSP-ACCI
639	CHS423	western hemlock/salmonberry-salal (coastal)	TSHE/RUSP-GASH
639	CHS5	western hemlock/devilsclub	TSHE/OPHO
639	CHS511	western hemlock/devilsclub (Willamette)	TSHE/OPHO
639	CHS512	western hemlock/devilsclub (Olympic)	TSHE/OPHO
639	CHS513	western hemlock/devilsclub-common ladyfern	TSHE/OPHO-ATFI
639	CHS514	western hemlock/devilsclub (Mt. Rainier)	TSHE/OPHO
639	CHS521	western hemlock/devilsclub (coastal)	TSHE/OPHO
639	CHS522	western hemlock/devilsclub/redwood-sorrel	TSHE/OPHO/OXOR
639	CHS523	western hemlock/devilsclub/starry false lily of the valley	TSHE/OPHO/MAST4
639	CHS524	western hemlock/devilsclub/western swordfern	TSHE/OPHO/POMU
639	CHS6	western hemlockthinleaf huckleberry	TSHE/VAME
639	CHS610	western hemlock/California huckleberry (coastal)	TSHE/VAOV2
639	CHS611	western hemlock/oval-leaf blueberry devilsclub	TSHE/VAOV-OPHO
639	CHS612	western hemlock/thinleaf huckleberry/common beargrass	TSHE/VAME/XETE
639	CHS613	western hemlock/oval-leaf blueberry/redwood-sorrel	TSHE/VAOV/OXOR
639	CHS614	western hemlock/oval-leaf blueberry-salal	TSHE/VAOV-GASH
639	CHS615	western hemlock/oval-leaf blueberry/bunchberry dogwood	TSHE/VAOV/COCA13
639	CHS621	western hemlock/oval-leaf blueberry	TSHE/VAOV
639	CHS622	western hemlock/oval-leaf blueberry/common beargrass	TSHE/VAOV/XETE

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
639	CHS623	western hemlock/oval-leaf blueberry/redwood-sorrel (Olympic)	TSHE/VAOV/OXOR
639	CHS624	western hemlock/oval-leaf blueberry-salal (Olympic)	TSHE/VAOV-GASH
639	CHS625	western hemlock/oval-leaf blueberry-western swordfern	TSHE/VAOV-POMU
639	CHS626	western hemlock/oval-leaf blueberry-Cascade barberry	TSHE/VAOV-MANE2
639	CHS631	western hemlock/vine maple/Oregon oxalis	TSHE/ACCI/OXOR
639	CHS7	western hemlock/rhododendron-rusty menziesia-buffaloberry	TSHE/RHODO-MEFE-SHEPH
639	CHS711	western hemlock/rusty menziesia	TSHE/MEFE
639	CHS8	western hemlock/oak, chapparal	TSHE/QUERC
639	CHSC	western hemlock/Pacific rhododendron (cool)	TSHE/RHMA3
639	CHSD	western hemlock/salal-Cascade barberry (dry)	TSHE/GASH-MANE2
639	CHSF	western hemlock/shrub/redwood-sorrel	TSHE/2SHRUB/OXOR
639	CHSM	western hemlock/Pacific rhododendron (mesic)	TSHE/RHMA3
639	CHZ412	spruce-hemlock-cedar/hardwood (Siuslaw, 12)	PICEA-TSUGA-CHAMA4/2TD
639	CHZ612	spruce-hemlock-cedar (Siuslaw, 12)	PICEA-TSUGA-CHAMA4
639	CJ	western juniper	JUOC
639	CJC0	western juniper-associated conifers	JUOC-2TE
639	CJG0	western juniper/grass	JUOC/2GRAM
639	CJG1	western juniper/bluebunch wheatgrass	JUOC/PSSP6
639	CJG111	western juniper/Idaho fescue-bluebunch wheatgrass	JUOC/FEID-PSSPS
639	CJG112	western juniper/bluebunch wheatgrass-Sandberg bluegrass	JUOC/PSSP6-POSE
639	CJG2	western juniper/Idaho fescue	JUOC/FEID
639	CJRR	western juniper (very rocky site)	JUOC
639	CJRS	western juniper (steep slopes, little ground vegetation)	JUOC
639	CJRX	western juniper (rocks, steep slopes, minimal ground vegetation)	JUOC
639	CJS0	western juniper/shrub	JUOC/2SHRUB
639	CJS1	western juniper/little sagebrush	JUOC/ARAR8
639	CJS111	western juniper/little sagebrush/bluebunch wheatgrass-Idaho fescue	JUOC/ARAR8/PSSP6-FEID
639	CJS112	western juniper/little sagebrush/Idaho fescue	JUOC/ARAR8/FEID
639	CJS2	western juniper/mountain big sagebrush	JUOC/ARTRV
639	CJS211	western juniper/big sagebrush/bluebunch wheatgrass-Idaho fescue	JUOC/ARTR2/PSSP6-FEID
639	CJS212	western juniper/basin big sagebrush/Idaho fescue-bluebunch wheatgrass (north)	JUOC/ARTRT/FEID-PSSPS
639	CJS213	western juniper/basin big sagebrush/bluebunch wheatgrass-Sandberg bluegrass (south)	JUOC/ARTRT/PSSPS-POSE
639	CJS221	western juniper/big sagebrush/bluebunch wheatgrass	JUOC/ARTR2/PSSPS
639	CJS222	western juniper/big sagebrush/bluebunch wheatgrass-Douglas' dustymaiden	JUOC/ARTR2/PSSPS-CHDO
639	CJS223	western juniper/big sagebrush/bluebunch wheatgrass-woollypod milkvetch	JUOC/ARTR2/PSSPS-ASPUL2
639	CJS224	western juniper/big sagebrush/Idaho fescue	JUOC/ARTR2/FEID
639	CJS225	western juniper/big sagebrush/Idaho fescue-lupine	JUOC/ARTR2/FEID-LUPIN

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
639	CJS226	western juniper/basin big sagebrush/bluebunch wheatgrass-Idaho fescue (flat)	JUOC/ARTRT/PSSPS-FEID
639	CJS231	western juniper/basin big sagebrush-rockspirea/bluebunch wheatgrass-arrowleaf balsamroot (S. CAN)	JUOC/ARTRT-HODU/PSSPS-BASA3
639	CJS232	western juniper/basin big sagebrush-yellow rabbitbrush/Idaho fescue-arrowleaf balsamroot (N. CAN)	JUOC/ARTRT-CHV18/FEID-BASA3
639	CJS236	western juniper/big sagebrush-antelope bitterbrush	JUOC/ARTR2-PUTR2
639	CJS291	western juniper/rubber rabbitbrush-basin big sagebrush/crested wheatgrass	JUOC/ERNAN5-ARTRT/AGCR
639	CJS292	western juniper/rubber rabbitbrush-basin big sagebrush/beardless wheatgrass	JUOC/ERNAN5-ARTRT/PSSPI
639	CJS3	western juniper/antelope bitterbrush	JUOC/PUTR2
639	CJS311	western juniper/antelope bitterbrush/bluebunch wheatgrass-Idaho fescue	JUOC/PUTR2/PSSPS-FEID
639	CJS321	western juniper/antelope bitterbrush/Idaho fescue-bluebunch wheatgrass	JUOC/PUTR2/FEID-PSSPS
639	CJS4	western juniper/mountain mahogany	JUOC/CERCO
639	CJS8	western juniper/scabland sagebrush (scabland)	JUOC/ARRI2
639	CJS811	western juniper/scabland sagebrush (scabland)	JUOC/ARRI2
639	CJSB	western juniper (biscuit-swale)	JUOC
639	CJSB11	western juniper/basin big sagebrush/bluebunch wheatgrass-Idaho fescue (mound)	JUOC/ARTRT/PSSPS-FEID
639	CL	lodgepole pine-whitebark pine (climax or stable)	PICO-PIAL
639	CLC0	lodgepole pine-whitebark pine-associated conifers	PICO-PIAL-2TE
639	CLC1	lodgepole pine-whitebark pine (alpine)	PICO-PIAL
639	CLC111	lodgepole pine-whitebark pine/mountain blue penstemon	PICO-PIAL/PELA7
639	CLC112	lodgepole pine-whitebark pine/King's sandwort	PICO-PIAL/ARKI
639	CLC2	lodgepole pine-Douglas-fir/juniper-manzanita (serpentine)	PICO-PSME/JUNIP-ARCTO3
639	CLC3	lodgepole pine-ponderosa pine	PICO-PIPO
639	CLC4	lodgepole pine-Douglas-fir	PICO-PSME
639	CLC5	lodgepole pine-mountain hemlock	PICO-TSME
639	CLC511	lodgepole pine-mountain hemlock/long-stolen sedge	PICO-TSME/CAPE5
639	CLF0	lodgepole pine/forbs	PICO/2FORB
639	CLF1	lodgepole pine/forbs (less than ½ meter tall)	PICO/2FORB
639	CLF111	lodgepole pine/little prince's pine-lupine	PICO/CHME-LUPIN
639	CLF211	lodgepole pine/twinflower	PICO/LIBO3
639	CLG0	lodgepole pine/grass	PICO/2GRAM
639	CLG1	lodgepole pine/Idaho fescue	PICO/FEID
639	CLG111	lodgepole pine/Idaho fescue	PICO/FEID
639	CLG2	lodgepole pine/pinegrass	PICO/CARU
639	CLG211	lodgepole pine/pinegrass-grouse whortleberry	PICO/CARU-VASC
639	CLG3	lodgepole pine/Idaho fescue (pumice)	PICO/FEID
639	CLG311	lodgepole pine/western needlegrass (basins, pumice)	PICO/ACOCO
639	CLG312	lodgepole pine/antelope bitterbrush/Idaho fescue (underburned)	PICO/PUTR2/FEID
639	CLG313	lodgepole pine/western needlegrass-tailcup lupine-Nuttall's linanthus	PICO/ACOCO-LUCA-LINU3
639	CLG314	lodgepole pine/western needlegrass-tailcup lupine (pumice)	PICO/ACOCO-LUCA
639	CLG315	lodgepole pine/Virginia strawberry-Idaho fescue	PICO/FRVIP2-FEID

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
639	CLG321	lodgepole pine/Geyer's sedge	PICO/CAGE2
639	CLG4	lodgepole pine/rhizomatous grass (pumice)	PICO/2GRAM
639	CLG411	lodgepole pine/long-stolon sedge-tailcup lupine (pumice)	PICO/CAIN9-LUCA
639	CLG412	lodgepole pine/long-stolon sedge-tailcup lupine-beardtongue	PICO/CAIN9-LUCA-PENST
639	CLG413	lodgepole pine/long-stolon sedge-western needlegrass (basins, pumice)	PICO/CAIN9-ACOCO
639	CLG415	lodgepole pine/squirreltail-long-stolon sedge	PICO/ELELE-CAIN9
639	CLH0	lodgepole pine-hardwoods	PICO-2TD
639	CLH1	lodgepole pine-quaking aspen	PICO-POTR5
639	CLH111	lodgepole pine-quaking aspen/Virginia strawberry	PICO-POTR5/FRVIP2
639	CLM0	lodgepole pine (wetlands, moist to wet soils)	PICO
639	CLM1	lodgepole pine/sedge-grass (wetland)	PICO/CAREX-2GRAM
639	CLM111	lodgepole pine/Nebraska sedge-blue wildrye (wetland)	PICO/CANE2-ELGL
639	CLM112	lodgepole pine/Kentucky bluegrass	PICO/POPR
639	CLM113	lodgepole pine/widefruit sedge	PICO/CAAN15
639	CLM114	lodgepole pine/water sedge	PICO/CAAQ
639	CLM115	lodgepole pine/tufted hairgrass	PICO/DECA18
639	CLM2	lodgepole pine/dwarf shrub-grass (wetland)	PICO/2SHRUB-2GRAM
639	CLM211	lodgepole pine/kinnikinnick (pumice)	PICO/ARUV
639	CLM3	lodgepole pine/blueberry-grass (wetland)	PICO/VACCI-2GRAM
639	CLM311	lodgepole pine/bog blueberry-forb (pumice)	PICO/VAUL-2FORB
639	CLM312	lodgepole pine/bog blueberry/widefruit sedge	PICO/VAUL/CAAN15
639	CLM313	lodgepole pine/rose spirea/forb	PICO/SPDO/2FORB
639	CLM314	lodgepole pine/rose spirea/widefruit sedge	PICO/SPDO/CAAN15
639	CLM411	lodgepole pine/common beargrass (pumice)	PICO/XETE
639	CLM9	lodgepole pine (invading meadows)	PICO
639	CLM911	lodgepole pine-Engelmann spruce/fewflower spikerush	PICO-PIEN/ELQU2
639	CLRR	lodgepole pine (very rocky, little ground vegetation)	PICO
639	CLRS	lodgepole pine (steep, stony, little ground vegetation)	PICO
639	CLRX	lodgepole pine (rocky, steep, little ground vegetation)	PICO
639	CLS0	lodgepole pine/shrub	PICO/2SHRUB
639	CLS1	lodgepole pine/big sagebrush	PICO/ARTR2
639	CLS111	lodgepole pine/big sagebrush/Idaho fescue (pumice)	PICO/ARTR2/FEID
639	CLS112	lodgepole pine/big sagebrush (rhyolite, pumice)	PICO/ARTR2
639	CLS2	lodgepole pine/antelope bitterbrush (xeric)	PICO/PUTR2
639	CLS211	lodgepole pine/antelope bitterbrush/western needlegrass (pumice)	PICO/PUTR2/ACOCO
639	CLS212	lodgepole pine/antelope bitterbrush/long-stolon sedge (pumice)	PICO/PUTR2/CAIN9
639	CLS213	lodgepole pine/antelope bitterbrush/forb (pumice)	PICO/PUTR2/2FORB
639	CLS214	lodgepole pine/antelope bitterbrush/Idaho fescue (pumice)	PICO/PUTR2/FEID
639	CLS215	lodgepole pine/wax currant-antelope bitterbrush/western needlegrass (pumice)	PICO/RICE-PUTR2/ACOCO
639	CLS216	lodgepole pine/antelope bitterbrush (rhyolite)	PICO/PUTR2
639	CLS3	lodgepole pine/pinemat manzanita	PICO/ARNE
639	CLS311	lodgepole pine/pinemat manzanita	PICO/ARNE
639	CLS312	lodgepole pine/pinemat manzanita/lupin	PICO/ARNE/LUPIN

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
639	CLS4	lodgepole pine/grouse whortleberry (cool xeric)	PICO/VASC
639	CLS411	lodgepole pine/grouse whortleberry (Blue Mountains)	PICO/VASC
639	CLS412	lodgepole pine/grouse whortleberry (pumice)	PICO/VASC
639	CLS413	lodgepole pine/grouse whortleberry/forb	PICO/VASC/2FORB
639	CLS414	lodgepole pine/grouse whortleberry/long-stolon sedge	PICO/VASC/CAIN9
639	CLS415	lodgepole pine/grouse whortleberry (Wallowa)	PICO/VASC
639	CLS416	lodgepole pine/pinegrass (climax)	PICO/CARU
639	CLS421	lodgepole pine/grouse whortleberry (Idaho)	PICO/VASC
639	CLS422	lodgepole pine/dwarf bilberry	PICO/VACA13
639	CLS5	lodgepole pine/thinleaf huckleberry/pinegrass	PICO/VAME/CARU
639	CLS511	lodgepole pine/thinleaf huckleberry (Blue Mountains)	PICO/VAME
639	CLS515	lodgepole pine/thinleaf huckleberry (Wallowa)	PICO/VAME
639	CLS521	lodgepole pine/russet buffaloberry	PICO/SHCA
639	CLS6	lodgepole pine/Sitka alder (moist sites)	PICO/ALVIS
639	CLS8	lodgepole pine/salal-California huckleberry (coastal)	PICO/GASH-VAOV2
639	CLS811	lodgepole pine/salal-California huckleberry/sedge (deflation plain)	PICO/GASH-VAOV2/CAREX
639	CLS812	lodgepole pine/rhododendron/California huckleberry (floodplain, dune)	PICO/RHODO/VAOV2
639	CLS821	lodgepole pine/rhododendron/California huckleberry (stabilized dune)	PICO/RHODO/VAOV2
639	CLS822	lodgepole pine/rhododendron/California huckleberry (eroding dune)	PICO/RHODO/VAOV2
639	CLS823	lodgepole pine/rhododendron/California huckleberry (dune slipface)	PICO/RHODO/VAOV2
639	CLS831	lodgepole pine/kinnikinnick-hairy manzanita (rolling dune, open)	PICO/ARUV-ARCO3
639	CLS911	lodgepole pine/snowbrush ceanothus-greenleaf manzanita (pumice)	PICO/CEVE-ARPA6
639	CLSM	lodgepole pine/shrub (mesic)	PICO/2SHRUB
639	CLX104	Malheur(04) 4A: slope <30%, CLG211, CLS511, CLS411	
639	CLX120	Winema(20): CLG411, CLS212, CLG3	
639	CLX204	Malheur(04) 4B: slope 30-70%, CLG211, CLS511, CLS411	
639	CLX220	Winema(20): CLG311, CLM111, CLM211, CLS214	
639	CLX320	Winema(20): CLM211, CLS211, CLS213	
639	CLX420	Winema(20): CLG311	
639	CLX520	Winema(20): CLG9, CLS9	
639	CM	mountain hemlock	TSME
639	CMC0	mountain hemlock-associated important conifers	TSME/2TE
639	CMC1	mountain hemlock-Alaska cedar	TSME/CHNO
639	CMC151	Alaska cedar/devilsclub	CHNO/OPHO
639	CMC2	mountain hemlock-fir	TSME-ABIES
639	CMC3	mountain hemlock-lodgepole pine	TSME-PICO
639	CMC311	mountain hemlock-lodgepole pine/pinemat manzanita	TSME-PICO/ARNE
639	CMC312	mountain hemlock-lodgepole pine/grouse whortleberry	TSME-PICO/VASC
639	CMC313	mountain hemlock-lodgepole pine-subalpine fir	TSME-PICO-ABLA
639	CMF0	mountain hemlock/forbs	TSME/2FORB
639	CMF1	mountain hemlock/common beargrass	TSME/XETE
639	CMF111	mountain hemlock/common beargrass (Warm Springs)	TSME/XETE
639	CMF121	mountain hemlock/common beargrass (Daubenmeir)	TSME/XETE

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
639	CMF131	mountain hemlock/common beargrass-whortleberry	TSME/XETE-VAMY2
639	CMF2	mountain hemlock/oneleaf foamflower-sweet after death	TSME/TITRU-ACTR
639	CMF211	mountain hemlock/skunk-leaved polemonium	TSME/POPU
639	CMF250	mountain hemlock/oneleaf foamflower-twistedstalk	TSME/TITRU-STLAR
639	CMF251	mountain hemlock/Howell's marsh marigold	TSME/CALEH2
639	CMF3	mountain hemlock/wintergreen	TSME/PYROL
639	CMFC	mountain hemlock/forb (cool)	TSME/2FORB
639	CMG0	mountain hemlock/shrub	TSME/2SHRUB
639	CMG1	mountain hemlock/pinegrass	TSME/CARU
639	CMG2	mountain hemlock/woodrush	TSME/LUZUL
639	CMG211	mountain hemlock/woodrush	TSME/LUZUL
639	CMG221	mountain hemlock/Hitchcock's smooth woodrush	TSME/LUGLH
639	CMG3	mountain hemlock/sedge	TSME/CAREX
639	CMRR	mountain hemlock (rocky, minimum ground vegetation)	TSME
639	CMRS	mountain hemlock (steep, minimum ground vegetation)	TSME
639	CMRX	mountain hemlock (rocky or steep, minimum ground vegetation)	TSME
639	CMS0	mountain hemlock/shrub	TSME/2SHRUB
639	CMS1	mountain hemlock/grouse whortleberry/pinemat manzanita	TSME/VASC/ARNE
639	CMS111	mountain hemlock/grouse whortleberry (Deschutes)	TSME/VASC
639	CMS113	mountain hemlock/grouse whortleberry (Deschutes)	TSME/VASC
639	CMS114	mountain hemlock/grouse whortleberry	TSME/VASC
639	CMS115	mountain hemlock/grouse whortleberry (Mt. Hood)	TSME/VASC
639	CMS121	mountain hemlock/grouse whortleberry/Hitchcock's smooth woodrush	TSME/VASC/LUGLH
639	CMS122	mountain hemlock/roughfruit berry	TSME/RULA2
639	CMS131	mountain hemlock/grouse whortleberry (Wallowa)	TSME/VASC
639	CMS2	mountain hemlock/thinleaf huckleberry-rusty menziesia	TSME/VAME-MEFE
639	CMS210	mountain hemlock/thinleaf huckleberry (Gifford Pinchot)	TSME/VAME
639	CMS211	mountain hemlock/blueberry (steep, pumice, Willamette)	TSME/VACCI
639	CMS212	mountain hemlock/blueberry (ash, Willamette)	TSME/VACCI
639	CMS213	mountain hemlock-fir/blueberry (black sand, Willamette))	TSME/VACCI
639	CMS214	mountain hemlock-fir/blueberry (steep, ash, Willamette)	TSME/VACCI
639	CMS215	mountain hemlock/blueberry (cinders, Willamette)	TSME/VACCI
639	CMS216	mountain hemlock/thinleaf huckleberry/common beargrass	TSME/VAME/XETE
639	CMS218	mountain hemlock/thinleaf huckleberry/bride's bonnet	TSME/VAME/CLUN2
639	CMS220	mountain hemlock/rusty menziesia (Daubenmeir)	TSME/MEFE
639	CMS221	mountain hemlock/rusty menziesia	TSME/MEFE
639	CMS223	mountain hemlock/Cascade azalea	TSME/RHAL2
639	CMS231	mountain hemlock/thinleaf huckleberry (Wallowa)	TSME/VAME
639	CMS241	mountain hemlock/oval-leaf blueberry	TSME/VAOV
639	CMS242	mountain hemlock/oval-leaf blueberry/white avalanche-lily	TSME/VAOV/ERM08
639	CMS243	mountain hemlock/oval-leaf blueberry/common beargrass	TSME/VAOV/XETE
639	CMS244	mountain hemlock/thinleaf huckleberry-oval-leaf blueberry	TSME/VAME-VAOV
639	CMS245	mountain hemlock/thinleaf huckleberry/common beargrass (western Washington)	TSME/VAME/XETE
639	CMS246	mountain hemlock/thinleaf huckleberry (Mt. Baker-Snoqualmie)	TSME/VAME
639	CMS250	mountain hemlock/thinleaf huckleberry/twistedstalk	TSME/VAME/STLAR

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
639	CMS251	mountain hemlock/thinleaf huckleberry/Sitka valerian	TSME/VAME/VASI
639	CMS252	mountain hemlock/oval-leaf blueberry/twistedstalk	TSME/VAOV/STLAR
639	CMS253	mountain hemlock/oval-leaf blueberry/bride's bonnet	TSME/VAOV/CLUN2
639	CMS254	mountain hemlock/thinleaf huckleberry/roughfruit berry	TSME/VAME/RULA2
639	CMS255	mountain hemlock/oval-leaf blueberry/false lily of the valley	TSME/VAOV/MADI
639	CMS256	mountain hemlock/rusty menziesia-oval-leaf blueberry	TSME/MEFE-VAOV
639	CMS257	mountain hemlock/rusty menziesia-thinleaf huckleberry	TSME/MEFE-VAME
639	CMS258	mountain hemlock/oval-leaf blueberry (Wenatchee)	TSME/VAOV
639	CMS259	mountain hemlock/thinleaf huckleberry (Wenatchee)	TSME/VAME
639	CMS3	mountain hemlock/rusty menziesia-pink mountainheath-Cascade azalea	TSME/MEFE-PHEM-RHAL2
639	CMS311	mountain hemlock/pink mountainheath-Cascade bilberry	TSME/PHEM-VADE
639	CMS312	mountain hemlock/Cascade azalea-thinleaf huckleberry	TSME/RHAL2-VAME
639	CMS323	mountain hemlock/Cascade azalea	TSME/RHAL2
639	CMS350	mountain hemlock/pink mountainheath-Cascade bilberry	TSME/PHEM-VADE
639	CMS351	mountain hemlock/Cascade azalea-oval-leaf blueberry	TSME/RHAL2-VAOV
639	CMS352	mountain hemlock/Cascade azalea-thinleaf huckleberry	TSME/RHAL2-VAME
639	CMS353	mountain hemlock/copperbush/strawberryleaf raspberry	TSME/ELPY/RUPE
639	CMS354	mountain hemlock/pink mountainheath-Cascade bilberry	TSME/PHEM-VADE
639	CMS355	mountain hemlock/Cascade azalea-oval-leaf blueberry	TSME/RHAL2-VAOV
639	CMS356	mountain hemlock/Cascade azalea-thinleaf huckleberry	TSME/RHAL2-VAME
639	CMS4	mountain hemlock/devilsclub	TSME/OPHO
639	CMS450	mountain hemlock/devilsclub-oval-leaf blueberry	TSME/OPHO-VAOV
639	CMS5	mountain hemlock/low shrub	TSME/2SHRUB
639	CMS6	mountain hemlock/vine maple-oceanspray-Pacific rhododendron	TSME/ACCI-HODI-RHMA3
639	CMS611	mountain hemlock-Douglas-fir/vine maple (lava, Willamette)	TSME-PSME/ACCI
639	CMS612	mountain hemlock/Pacific rhododendron	TSME/RHMA3
639	CMS641	mountain hemlock-Pacific silver fir/Pacific rhododendron	TSME-ABAM/RHMA
639	CMSC	mountain hemlock/oval-leaf blueberry	TSME/VAOV
639	CP	ponderosa pine-Jeffrey pine	PIPO-PIJE
639	CPC0	ponderosa pine-Jeffrey pine-conifer	PIPO-PIJE-2TE
639	CPC1	ponderosa pine-incense cedar	PIPO-CADE27
639	CPC2	ponderosa pine-western juniper	PIPO-JUOC
639	CPC211	ponderosa pine-western juniper/curl-leaf mountain mahogany-antelope bitterbrush-basin big sagebrush/Idaho fescue	PIPO-JUOC/CELE3-PUTR2-ARTRT/FEID
639	CPC3	ponderosa pine-lodgepole pine	PIPO-PICO
639	CPC4	Jeffrey pine	PIJE
639	CPC411	ponderosa pine-Douglas-fir	PIPO-PSME
639	CPC5	Jeffrey pine-western white pine	PIJE-PIMO3
639	CPC511	Jeffrey pine-western white pine	PIJE-PIMO
639	CPC6	ponderosa pine-Douglas-fir	PIPO-PSME
639	CPC611	ponderosa pine-Douglas-fir/old man's whiskers-mule-ears	PIPO-PSME/GETR-WYAM
639	CPC612	ponderosa pine-Douglas-fir/antelope bitterbrush	PIPO-PSME/PUTR2
639	CPC613	ponderosa pine-Douglas-fir/greenleaf manzanita-snowbrush ceanothus	PIPO-PSME/ARPA6-CEVE
639	CPC614	ponderosa pine-Douglas-fir/snowberry	PIPO-PSME/SYMPH

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
639	CPF0	ponderosa pine-Jeffrey pine/forb-grass	PIPO-PIJE/2FORB-2GRAM
639	CPF111	ponderosa pine/woolly mule-ears	PIPO/WYMO
639	CPF121	ponderosa pine/old man's whiskers-mule-ears	PIPO/GETR-WYAM
639	CPG0	ponderosa pine-Jeffrey pine/grass	PIPO-PIJE/2GRAM
639	CPG1	ponderosa pine/bunchgrass (non pumice)	PIPO/2GRAM
639	CPG111	ponderosa pine/bluebunch wheatgrass (Blue Mountains)	PIPO/PSSPS
639	CPG112	ponderosa pine/Idaho fescue (Blue Mountains)	PIPO/FEID
639	CPG121	ponderosa pine/bluebunch wheatgrass (Daubenmeir)	PIPO/PSSPS
639	CPG122	ponderosa pine/Idaho fescue (Daubenmeir)	PIPO/FEID
639	CPG123	ponderosa pine/western needlegrass (Daubenmeir)	PIPO/ACOCO
639	CPG124	ponderosa pine/western needlegrass (Idaho)	PIPO/ACOCO
639	CPG131	ponderosa pine/Idaho fescue (Wallowa)	PIPO/FEID
639	CPG132	ponderosa pine/bluebunch wheatgrass (Wallowa)	PIPO/PSSPS
639	CPG133	ponderosa pine/Idaho fescue (Idaho)	PIPO/FEID
639	CPG134	ponderosa pine/bluebunch wheatgrass (Idhao)	PIPO/PSSPS
639	CPG141	ponderosa pine/bluebunch wheatgrass (Wenatchee)	PIPO/PSSPS
639	CPG142	ponderosa pine/bluebunch wheatgrass-Indian's dream	PIPO/PSSPS-ASDE6
639	CPG2	ponderosa pine/grass-sedge	PIPO/2GRAM-CAREX
639	CPG212	ponderosa pine/long-stolon sedge-Idaho fescue-Nevada pea	PIPO/CAIN9-FEID-LALA3
639	CPG221	ponderosa pine/pinegrass	PIPO/CARU
639	CPG222	ponderosa pine/Geyer's sedge	PIPO/CAGE2
639	CPG231	ponderosa pine/pinegrass-bluebunch wheatgrass	PIPO/CARU-PSSPS
639	CPG3	ponderosa pine/bluebunch wheatgrass (pumice soil)	PIPO/PSSP6
639	CPG311	ponderosa pine/antelope bitterbrush-Idaho fescue (underburn)	PIPO/PUTR2-FEID
639	CPG6	Jeffrey pine/bunchgrass (serpentine)	PIJE/2GRAM
639	CPH0	ponderosa pine-Jeffrey pine-hardwoods	PIPO-PIJE-2TD
639	CPH1	ponderosa pine-Jeffrey pine-madrone-manzanita	PIPO-PIJE-ARBUS-ARCTO3
639	CPH2	ponderosa pine-Jeffrey pine-white oak-black oak	PIPO-PIJE-QUGA4-QUKE
639	CPH211	ponderosa pine-Oregon white oak/arrowleaf balsamroot	PIPO-QUGA4/BASA3
639	CPH212	ponderosa pine-Oregon white oak/antelope bitterbrush	PIPO-QUGA4/PUTR2
639	CPH3	ponderosa pine-Jeffrey pine-quaking aspen	PIPO-PIJE-POTR5
639	CPH311	ponderosa pine-quaking aspen/Wheeler bluegrass	PIPO-POTR5/PONE2
639	CPH4	Jeffrey pine-oak	PIJE-QUERC
639	CPH411	Jeffrey pine/huckleberry oak	PIJE/QUVA
639	CPM0	ponderosa pine-Jeffrey pine (wetlands,moist to wet soil)	PIPO-PIJE
639	CPM1	ponderosa pine-Jeffrey pine/blue wildrye-Kentucky bluegrass	PIPO-PIJE/ELGL-POPR
639	CPM111	ponderosa pine/blue wildrye	PIPO/ELGL
639	CPM112	ponderosa pine/Kentucky bluegrass	PIPO/POPR
639	CPRR	ponderosa pine (rocky, little ground vegetation)	PIPO
639	CPRS	ponderosa pine (steep, little ground vegetation)	PIPO
639	CPRX	ponderosa pine (rocky or steep, little ground vegetation)	PIPO
639	CPS0	ponderosa pine-Jeffrey pine/shrub	PIPO-PIJE/2SHRUB
639	CPS1	ponderosa pine-Jeffrey pine/big sagebrush	PIPO-PIJE/ARTR2

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
639	CPS111	ponderosa pine/antelope bitterbrush-big sagebrush/Idaho fescue	PIPO/PUTR2-ARTR2/FEID
639	CPS112	ponderosa pine/antelope bitterbrush-big sagebrush/squirreltail (rhyolite)	PIPO/PUTR2-ARTR2/ELELE
639	CPS121	ponderosa pine/mountain big sagebrush/Wheeler bluegrass	PIPO/ARTRV/PONE2
639	CPS131	ponderosa pine/mountain big sagebrush/Idaho fescue-bluebunch wheatgrass	PIPO/ARTRV/FEID-PSSPS
639	CPS2	ponderosa pine-Jeffrey pine/antelope bitterbrush-mountain mahogany	PIPO-PIJE/PUTR2-CERCO
639	CPS211	ponderosa pine/antelope bitterbrush/Idaho fescue (pumice)	PIPO/PUTR2/FEID
639	CPS212	ponderosa pine/antelope bitterbrush/western needlegrass (pumice)	PIPO/PUTR2/ACOCO
639	CPS213	ponderosa pine/antelope bitterbrush-greenleaf manzanita/western needlegrass (pumice)	PIPO/PUTR2-ARPA6/ACOCO
639	CPS214	ponderosa pine/antelope bitterbrush-greenleaf manzanita/long-stolon sedge (pumice)	PIPO/PUTR2-ARPA6/CAIN9
639	CPS215	ponderosa pine/antelope bitterbrush/long-stolon sedge (pumice)	PIPO/PUTR2/CAIN9
639	CPS216	ponderosa pine/antelope bitterbrush/Idaho fescue-bluebunch wheatgrass (pumice)	PIPO/PUTR2/FEID-PSSPS
639	CPS217	ponderosa pine/antelope bitterbrush-greenleaf manzanita/Idaho fescue (pumice)	PIPO/PUTR2-ARPA6/FEID
639	CPS218	ponderosa pine/antelope bitterbrush/squirreltail (rhyolite)	PIPO/PUTR2/ELELE
639	CPS221	ponderosa pine/antelope bitterbrush/Ross' sedge	PIPO/PUTR2/CAR05
639	CPS222	ponderosa pine/antelope bitterbrush/Geyer's sedge	PIPO/PUTR2/CAGE2
639	CPS223	ponderosa pine/antelope bitterbrush/Idaho fescue (pumice)	PIPO/PUTR2/FEID
639	CPS224	ponderosa pine/antelope bitterbrush-greenleaf manzanita/Idaho fescue (pumice)	PIPO/PUTR2-ARPA6/FEID
639	CPS226	ponderosa pine/antelope bitterbrush/Idaho fescue-bluebunch wheatgrass	PIPO/PUTR2/FEID-PSSPS
639	CPS227	ponderosa pine/antelope bitterbrush (Idaho)	PIPO/PUTR2
639	CPS228	ponderosa pine/antelope bitterbrush-greenleaf manzanita	PIPO/PUTR2-ARPA6
639	CPS231	ponderosa pine/antelope bitterbrush/bluebunch wheatgrass	PIPO/PUTR2/PSSPS
639	CPS232	ponderosa pine/curl-leaf mountain mahogany/Geyer's sedge	PIPO/CELE3/CAGE2
639	CPS233	ponderosa pine/curl-leaf mountain mahogany/Wheeler bluegrass	PIPO/CELE3/PONE2
639	CPS234	ponderosa pine/curl-leaf mountain mahogany/Idaho fescue-bluebunch wheatgrass	PIPO/CELE3/FEID-PSSPS
639	CPS241	ponderosa pine/antelope bitterbrush/bluebunch wheatgrass	PIPO/PUTR2/PSSPS
639	CPS3	ponderosa pine/snowbrush ceanothus/Idaho fescue	PIPO/CEVE/FEID
639	CPS311	ponderosa pine/antelope bitterbrush-snowbrush ceanothus/western needlegrass (pumice)	PIPO/PUTR2-CEVE/ACOCO
639	CPS312	ponderosa pine/antelope bitterbrush-snowbrush ceanothus/long-stolon sedge (pumice)	PIPO/PUTR2-CEVE/CAIN9
639	CPS321	Jeffrey pine/dwarf ceanothus	PIJE/CEPU
639	CPS314	ponderosa pine/antelope bitterbrush-snowbrush ceanothus/Idaho fescue	PIPO/PUTR2-CEVE/FEID
639	CPS4	ponderosa pine/oceanspray-common snowberry-cherry	PIPO/HODI-SYAL-PRUNU
639	CPS5	ponderosa pine/common snowberry-rose spiraea	PIPO/SYAL-SPDO

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
639	CPS511	ponderosa pine/common snowberry (floodplain)	PIPO/SYAL
639	CPS512	ponderosa pine-mixed conifer/rose spirea-common snowberry	PIPO-2TE/SPDO-SYAL
639	CPS521	ponderosa pine/common snowberry (Daubenmeir)	PIPO/SYAL
639	CPS522	ponderosa pine/common snowberry (Wallowa)	PIPO/SYAL
639	CPS523	ponderosa pine/white spirea	PIPO/SPBE2
639	CPS524	ponderosa pine/common snowberry	PIPO/SYAL
639	CPS525	ponderosa pine/mountain snowberry	PIPO/SYOR2
639	CPS526	ponderosa pine/mountain snowberry (Idaho)	PIPO/SYOR2
639	CPS527	ponderosa pine/common snowberry (Idaho)	PIPO/SYAL
639	CPS6	ponderosa pine/manzanita-deerbrush	PIPO/ARCTO3-CEIN3
639	CPS611	Jeffrey pine/grass	PIJE/GRASS
639	CPS7	ponderosa pine/mallow ninebark	PIPO/PHMA5
639	CPS721	ponderosa pine/mallow ninebark (Daubenmeir)	PIPO/PHMA5
639	CPX104	Malheur(04) 6A: slope-30%, CPG1 12, CPS2 21, CPM1 11, CDG1 11	
639	CPX120	Winema(20): CPS2 11, CPG3 11	
639	CPX204	Malheur(04) 6B: 30-70%, CPG1 12, CPS2 21, CPM1 11, CDG1 11	
639	CPX220	Winema(20): CPS2 12, CPS2 13, CPS3 11	
639	CPX304	Malheur(04) 6C: 30-70%, tuff, CPG1 11, CPS2 21, CPM1 11, CDG1 11	
639	CPX320	Winema(20): CPS2 13, CPS2 15, CPS3 12, CPS2 13, CWS1 12	
639	CPX404	Malheur(04) 6D: less 30%, SERP, CPG1 11, CPS2 21, CPM1 11, CDG1 11	
639	CPX420	Winema(20) CPS3, CPS6	
639	CPX504	Malheur(04) 6E: 30-70%, serp, CPG1 11, CPS2 21, CPM1 11, CDG1 11	
639	CPX520	Winema(20): CPC2	
639	CPY104	Malheur(04):6f:slope less than 30%	
639	CQ	western white pine-sugar pine	PIMO3-PILA
639	CQF111	western white pine/common beargrass	PIMO/XETE
639	CR	Shasta red fir	ABSH
639	CRC0	Shasta red fir with associated conifers	ABSH-2TE
639	CRC1	Shasta red fir-incense cedar	ABSH-CADE27
639	CRC2	Shasta red fir-Alaska cedar	ABSH-CHNO
639	CRC3	Shasta red fir-white fir	ABSH-ABCO
639	CRF0	Shasta red fir/forb	ABSH/2FORB
639	CRF1	Shasta red fir/wintergreen-prince's pine	ABSH/PYROL-CHIMA
639	CRF2	Shasta red fir/grass-forb	ABSH/2GRAM-2FORB
639	CRF211	Shasta red fir/skunk-leaved polemonium	ABMAS/POPU
639	CRG0	Shasta red fir/grass-sedge	ABSH/2GRAM-CAREX
639	CRG111	Shasta red fir/long-stolon sedge	ABSH/CAIN9
639	CRH0	Shasta red fir with important associated hardwoods	ABSH-2TD
639	CRH1	Shasta red fir/deer oak	ABSH/QUSA2
639	CRH111	Shasta red fir/Sadler oak	ABMAS/QUSA
639	CRS0	Shasta red fir/shrub	ABSH/2SHRUB
639	CRS1	Shasta red fir/grouse whortleberry/pinemat manzanita	ABSH/VASC/ARNE

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
639	CRS111	Shasta red fir/pinemat manzanita	ABSH/ARNE
639	CRS112	Shasta red fir-mountain hemlock/pinemat manzanita/long-stolon sedge	ABSH-TSME/ARNE/CAIN9
639	CRS2	Shasta red fir/blackberry-common snowberry	ABSH/RUBUS-SYAL
639	CRS211	Shasta red fir/creeping snowberry	ABMAS/SYMO
639	CRS3	Shasta red fir/giant chinquapin	ABSH/CHCHC4
639	CRS311	Shasta red fir/giant chinquapin/pipsissewa-long-stolon sedge	ABSH/CHCHC4/CHUM-CAIN9
639	CRS313	Shasta red fir/giant chinquapin/pipsissewa-long-stolon sedge	ABSH/CHCHC4/CHUM-CAIN9
639	CRS4	Shasta red fir/blueberry-buffaloberry-rusty menziesia	ABSH/VACCI-SHEPH-MEFE
639	CRS411	Shasta red fir/thin-leaved huckleberry	ABMAS/VAME
639	CS	Sitka spruce	PISI
639	CSC0	Sitka spruce with associated conifers	PISI-2TE
639	CSF0	Sitka spruce/forb	PISI/2FORB
639	CSF1	Sitka spruce/western swordfern	PISI/POMU
639	CSF111	Sitka spruce/western swordfern-redwood-sorrel	PISI/POMU-OXOR
639	CSF121	Sitka spruce/western swordfern	PISI/POMU
639	CSF2	Sitka spruce/ladyfern-twistedstalk	PISI/ATHYR-STREP3
639	CSF3	Sitka spruce/redwood-sorrel	PISI/OXOR
639	CSF321	Sitka spruce/redwood-sorrel	PISI/OXOR
639	CSH0	Sitka spruce with important associated hardwoods	PISI-2TD
639	CSH1	Sitka spruce/California laurel	PISI/UMCA
639	CSH2	Sitka spruce/elderberry	PISI/SAMBU
639	CSH3	Sitka spruce/bigleaf maple	PISI/ACMA3
639	CSM0	Sitka spruce (wetland, moist to wet soi)	PISI
639	CSM1	Sitka spruce/willow-California wax myrtle	PISI/SALIX-MOCA6
639	CSS0	Sitka spruce/shrub	PISI/2SHRUB
639	CSS1	Sitka spruce/California huckleberry	PISI/VAOV2
639	CSS2	Sitka spruce/red huckleberry	PISI/VAPA
639	CSS221	Sitka spruce/rusty menziesia-red huckleberry	PISI/MEFE-VAPA
639	CSS3	Sitka spruce/salal	PISI/GASH
639	CSS321	Sitka spruce/salal	PISI/GASH
639	CSS4	Sitka spruce/rhododendron	PISI/RHODO
639	CSS411	Sitka spruce-Douglas-fir/rhododendron-California huckleberry (stabilized dune)	PISI-PSME/RHODO-VAOV2
639	CSS412	Sitka spruce-lodgepole pine-western hemlock/rhododendron (flood plain)	PISI-PICO-TSHE/RHODO
639	CSS421	Sitka spruce-Douglas-fir/rhododendron-California huckleberry (sandy, steep)	PISI-PSME/RHODO-VAOV2
639	CSS422	Sitka spruce-Douglas-fir/rhododendron-California huckleberry (sandy, gentle)	PISI-PSME/RHODO-VAOV2
639	CSS5	Sitka spruce/thimbleberry-salmonberry	PISI/RUPA-RUSP
639	CSS521	Sitka spruce/salmonberry	PISI/RUSP
639	CSS522	Sitka spruce/salmonberry-salal	PISI/RUSP-GASH
639	CSS6	Sitka spruce/devilsclub	PISI/OPHO
639	CSS621	Sitka spruce/devilsclub	PISI/OPHO
639	CSS7	Sitka spruce/vine maple	PISI/ACCI
639	CT	Port Orford cedar	CHLA

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
639	CTH0	Port Orford cedar-hardwoods	CHLA-2TD
639	CTH1	Port Orford cedar/oak	CHLA/QUERC
639	CTH2	Port Orford cedar/bigleaf maple	CHLA/ACMA3
639	CTH211	Port-Orford cedar-bigleaf maple	CHLA-ACMA
639	CTS0	Port Orford cedar-shrub	CHLA-2SHRUB
639	CTS1	Port Orford cedar/Cascade barberry	CHLA/MANE2
639	CTS112	Port-Orford cedar/dwarf Oregon grape/western twinflower	CHLA/BENE/LIBOL
639	CTS2	Port Orford cedar/salal	CHLA/GASH
639	CTS211	Port-Orford cedar/salal	CHLA/GASH
639	CTS3	Port Orford cedar/silktassel	CHLA/GARRY
639	CTS311	Port-Orford cedar/box-leaved silk-tassel	CHLA/GABU
639	CW	white fir-grand fir	ABCO-ABGR
639	CWC0	white fir-grand fir-associated conifers	ABCO-ABGR-2TE
639	CWC1	white fir-incense cedar-ponderosa pine	ABCO-CADE27-PIPO
639	CWC111	white fir-ponderosa pine-incense cedar/Saskatoon serviceberry	ABCO-PIPO-CADE27/AMAL2
639	CWC135	white fir-incense cedar/dwarf Oregon grape	ABCO-CADE3/BENE
639	CWC2	white fir-Douglas-fir-ponderosa pine (southwest Oregon, hot)	ABCO-PSME-PIPO
639	CWC211	white fir-Douglas-fir/snowbrush ceanothus-giant chinquapin/western brackenfern	ABCO-PSME/CEVE-CHCHC4/PTAQ
639	CWC212	white fir-Douglas-fir/snowbrush ceanothus-giant chinquapin/pinegrass	ABCO-PSME/CEVE-CHCHC4/CARU
639	CWC213	white fir/snowbrush ceanothus/long-stolon sedge-hairy brackenfern	ABCO/CEVE/CAIN9-PTAQP2
639	CWC214	white fir-Douglas-fir/snowbush ceanothus/kinnikinnick	ABCO-PSME/CEVE/ARUV
639	CWC215	white fir-Douglas-fir/snowbush ceanothus/kinnikinnick	ABCO-PSME/CEVE/ARUV
639	CWC231	white fir-Douglas-fir/dwarf Oregon grape	ABCO-PSME/BENE
639	CWC232	white fir-Douglas-fir/creambush oceanspray	ABCO-PSME/HODI
639	CWC233	white fir-Douglas-fir/Depauperate	ABCO-PSME/DEPAUPERATE
639	CWC234	white fir-Douglas-fir/Piper's Oregon grape	ABCO-PSME/BEPI
639	CWC241	white fir-ponderosa pine	ABCO-PIPO
639	CWC3	white fir-lodgepole pine (lodgepole reproducing)	ABCO-PICO
639	CWC311	white fir-lodgepole pine/long-stolon sedge-western needlegrass	ABCO-PICO/CAIN9-ACOCO
639	CWC321	white fir-lodgepole pine/western serviceberry	ABCO-PICO/AMAL
639	CWC4	white fir-ponderosa pine-western white pine-sugar pine (no Douglas-fir)	ABCO-PIPO-PIMO3-PILA
639	CWC411	white fir-ponderosa pine-sugar pine/sticky currant	ABCO-PIPO-PILA/RIVI3
639	CWC412	white fir-ponderosa pine-sugar pine/greenleaf manzanita	ABCO-PIPO-PILA/ARPA6
639	CWC5	white fir-grand fir/Engelmann spruce-Brewer spruce	ABCO-ABGR/PIEN-PIBR
639	CWC511	grand fir-Engelmann spruce/starry false lily of the valley	ABGR-PIEN/MAST4
639	CWC522	white fir-Brewer spruce/slender salal	ABCO-PIBR/GAOV
639	CWC523	white fir-Brewer spruce/common prince's-pine	ABCO-PIBR/CHUM

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
639	CWC6	white fir-Port-Orford-cedar (southwest Oregon, mesic)	ABCO-CHLA
639	CWC7	white fir-grand fir-Shasta red fir-Pacific silver fir	ABCO-ABGR-ABSH-ABAM
639	CWC725	white fir-Shasta red fir/common prince's-pine	ABCO-ABMAS/CHUM
639	CWC731	white fir-mountain hemlock/western twinflower	ABCO-TSME/LIBOL
639	CWC741	white fir-Pacific silver fir/dwarf Oregon grape	ABCO-ABAM/BENE
639	CWC8	white fir-grand fir/Pacific yew	ABCO-ABGR/TABR2
639	CWC811	grand fir/Pacific yew/bride's bonnet	ABGR/TABR2/CLUN2
639	CWC812	grand fir/Pacific yew/twinflower	ABGR/TABR2/LIBO3
639	CWC9	white fir-grand fir-Engelmann spruce	ABCO-ABGR-PIEN
639	CWC911	Engelmann spruce (bottoms)	PIEN
639	CWC921	white fir-western hemlock/vine maple	ABCO-TSHE/ACCI
639	CWF0	white fir-grand fir/forb	ABCO-ABGR/2FORB
639	CWF1	white fir/sweet after death-oneleaf foamflower	ABCO/ACTR-TITRU
639	CWF2	white fir/wintergreen-pipsissewa	ABCO/PYROL-CHUM
639	CWF211	grand fir/pipsissewa	ABGR/CHUM
639	CWF221	white fir/common prince's-pine/pyrola	ABCO/CHUM/PYROLA
639	CWF3	white fir-grand fir/twinflower	ABCO-ABGR/LIBO3
639	CWF311	grand fir/twinflower-forb	ABGR/LIBO3-2FORB
639	CWF312	grand fir/twinflower (Blue Mountains)	ABGR/LIBO3
639	CWF313	grand fir/ twinflower (Idaho)	ABGR/LIBO3
639	CWF321	grand fir/twinflower	ABGR/LIBO3
639	CWF4	white fir-grand fir/bride's bonnet/low forb	ABCO-ABGR/CLUN2/2FORB
639	CWF421	grand fir/bride's bonnet (Wallowa)	ABGR/CLUN2
639	CWF422	grand fir/Pacific yew/bride's bonnet	ABGR/TABR2/CLUN2
639	CWF423	grand fir/bride's bonnet (Idaho)	ABGR/CLUN2
639	CWF431	white fir/bride's bonnet	ABCO/CLUN2
639	CWF444	grand fir/heartleaf arnica	ABGR/ARCO9
639	CWF5	white fir-grand fir/mid-forbs	ABCO-ABGR/2FORB
639	CWF511	grand fir/Idaho goldthread	ABGR/COOC
639	CWF512	grand fir/Carolina bugbane	ABGR/TRCA
639	CWF521	grand fir/broadleaf starflower	ABGR/TRBOL
639	CWF522	grand fir/sweet after death	ABGR/ACTR
639	CWF523	grand fir/Jacob's-ladder	ABGR/POPU3
639	CWF524	grand fir/sweet after death (Wenatchee)	ABGR/ACTR
639	CWF531	grand fir/common beargrass	ABGR/XETE
639	CWF532	grand fir/Oregon goldthread (Idaho)	ABGR/COLA3
639	CWF6	grand fir-white fir/fern	ABGR-ABCO/2FERN
639	CWF611	grand fir/western oakfern	ABGR/GYDR
639	CWF612	grand fir/western swordfern-British Columbia wildginger	ABGR/POMU-ASCA2
639	CWF613	grand fir/common ladyfern	ABGR/ATFI
639	CWF911	white fir/herb	ABCO/HERB
639	CWFC	white fir/forb (cool)	ABCO/2FORB
639	CWFM	white fir/forb (mesic)	ABCO/2FORB

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
639	CWG0	white fir-grand fir/grass	ABCO-ABGR/2GRAM
639	CWG1	grand fir/pinegrass-Geyer's sedge	ABGR/CARU-CAGE2
639	CWG111	grand fir/Geyer's sedge (Blue Mountains)	ABGR/CAGE2
639	CWG112	grand fir/pinegrass (ash)	ABGR/CARU
639	CWG113	grand fir/pinegrass (Blue Mountains)	ABGR/CARU
639	CWG114	grand fir/pinegrass (Idaho)	ABGR/CARU
639	CWG121	grand fir/Geyer's sedge	ABGR/CAGE2
639	CWG122	grand fir/Geyer's sedge (Gifford Pinchot)	ABGR/CAGE2
639	CWG123	grand fir/pinegrass	ABGR/CARU
639	CWG124	grand fir/pinegrass (Wenatchee)	ABGR/CARU
639	CWG125	grand fir/pinegrass-lupine	ABGR/CARU-LUPIN
639	CWG2	white fir-grand fir/Columbia brome	ABCO-ABGR/BRVU
639	CWG211	grand fir/Columbia brome	ABGR/BRVU
639	CWH0	white fir-grand fir-hardwoods	ABCO-ABGR-2TD
639	CWH1	white fir-grand fir/giant chinquapin	ABCO- ABGR/CHCHC4
639	CWH111	white fir/snowbrush ceanothus-giant chinquapin	ABCO/CEVE-CHCHC4
639	CWH112	white fir/giant chinquapin-Oregon boxleaf/pipsissewa	ABCO/CHCHC4- PAMY/CHUM
639	CWH2	white fir-grand fir-quaking aspen	ABCO-ABGR-POTR5
639	CWH211	white fir-ponderosa pine-quaking aspen/long-stolon sedge	ABCO-PIPO- POTR5/CAIN9
639	CWH3	white fir/tanoak-canyon live oak	ABCO/LIDE3-QUCH2
639	CWH312	white fir-tanoak	ABCO-LIDE3
639	CWH4	white fir-grand fir/vine maple-Rocky Mountain maple-dogwood	ABCO-ABGR/ACCI- ACGLD4-CORNU
639	CWH411	white fir/vine maple/vanillaleaf	ABCO/ACCI/ACTR
639	CWH413	white fir/Douglas maple	ABCO/ACGL
639	CWH421	white fir/Douglas maple/dwarf Oregon grape	ABCO/ACGL/BENE
639	CWH5	white fir/deer oak	ABCO/QUSA2
639	CWH511	white fir-Sadler oak/common prince's-pine	ABCO-QUSA/CHUM
639	CWH521	white fir-Sadler oak/dwarf Oregon grape-Oregon boxwood	ABCO-QUSA/BENE- PAMY
639	CWH522	white fir-Sadler oak/dwarf Oregon grape	ABCO-QUSA/BENE
639	CWH531	white fir-Sadler oak-golden chinquapin	ABCO-QUSA-CACH
639	CWM0	white fir-grand fir (bottomlands)	ABCO-ABGR
639	CWM1	white fir/thinleaf alder/snowberry (bottomlands)	ABCO/ALINT/GAULT
639	CWM11	white fir/thinleaf alder (meadow)	ABCO/ALINT
639	CWM2	grand fir-white fir/forb (bottomlands)	ABGR-ABCO/2FORB
639	CWM210	grand fir-western red cedar/American skunkcabbage	ABGR-THPL/LYAM3
639	CWS0	white fir-grand fir/shrub	ABCO- ABGR/2SHRUB
639	CWS1	white fir-grand fir/snowbrush ceanothus-greenleaf manzanita	ABCO-ABGR/CEVE- ARPA6
639	CWS112	white fir/snowbrush ceanothus-greenleaf manzanita (pumice)	ABCO/CEVE-ARPA6
639	CWS113	white fir/snowbrush ceanothus-greenleaf manzanita/long-stolon sedge-glaucus beardtongue	ABCO/CEVE- ARPA6/CAIN9-PEEU
639	CWS114	white fir/snowbrush ceanothus (pumice)	ABCO/CEVE

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
639	CWS115	white fir/snowbrush ceanothus/long-stolon sedge	ABCO/CEVE/CAIN9
639	CWS116	white fir/snowbrush ceanothus-squawcarpet/Virginia strawberry	ABCO/CEVE-CEPR/FRVI
639	CWS117	white fir-ponderosa pine/greenleaf manzanita-creeping barberry	ABCO-PIPO/ARPA6-MARE11
639	CWS121	grand fir/snowbrush ceanothus (Warm Springs)	ABGR/CEVE
639	CWS2	white fir-grand fir/thinleaf huckleberry-creeping barberry	ABCO-ABGR/VAME-MARE11
639	CWS211	grand fir/thinleaf huckleberry	ABGR/VAME
639	CWS212	grand fir/thinleaf huckleberry (Blue Mountains)	ABGR/VAME
639	CWS213	grand fir/thinleaf huckleberry (Warm Springs)	ABGR/VAME
639	CWS214	grand fir/thinleaf huckleberry/bride's bonnet (Colville)	ABGR/VAME/CLUN2
639	CWS221	grand fir/thinleaf huckleberry/twinflower	ABGR/VAME/LIBO3
639	CWS222	grand fir/thinleaf huckleberry/bride's bonnet	ABGR/VAME/CLUN2
639	CWS223	grand fir/thimbleberry/drops of gold	ABGR/RUPA/DIHO3
639	CWS224	grand fir/Cascade barberry/sweet after death	ABGR/MANE2/ACTR
639	CWS225	grand fir/Cascade barberry	ABGR/MANE2
639	CWS226	grand fir/Cascade barberry/pinegrass	ABGR/MANE2/CARU
639	CWS231	grand fir/thinleaf huckleberry	ABGR/VAME
639	CWS232	white fir/thin-leaved huckleberry/western twinflower	ABCO/VAME/LIBOL
639	CWS3	white fir-grand fir/white spirea-common snowberry (mesic)	ABCO-ABGR/SPBE2-SYAL
639	CWS311	white fir-grand fir/giant chinquapin	ABCO-ABGR/CHCHC4
639	CWS312	white fir/common snowberry/Virginia strawberry	ABCO/SYAL/FRVI
639	CWS313	white fir-ponderosa pine/common snowberry/tuber starwort	ABCO-PIPO/SYAL/PSJA2
639	CWS314	grand fir/common snowberry (floodplain)	ABGR/SYAL
639	CWS321	grand fir/white spirea	ABGR/SPBE2
639	CWS322	grand fir/white spirea (Blue Mountains)	ABGR/SPBE2
639	CWS323	grand fir/white spirea (Idaho)	ABGR/SPBE2
639	CWS331	grand fir/snowberry	ABGR/SYMPH
639	CWS332	grand fir/creeping snowberry/sweet after death	ABGR/SYMO/ACTR
639	CWS333	grand fir/snowberry (Warm Springs)	ABGR/SYMPH
639	CWS334	grand fir/snowberry/Geyer's sedge	ABGR/SYMPH/CAGE2
639	CWS335	grand fir/shinyleaf spirea/western brackenfern	ABGR/SPBEL/PTAQ
639	CWS336	grand fir/common snowberry/pinegrass	ABGR/SYAL/CARU
639	CWS337	grand fir/mountain snowberry	ABGR/SYOR2
639	CWS338	grand fir/pinemat manzanita	ABGR/ARNE
639	CWS4	white fir-grand fir/mallow ninebark	ABCO-ABGR/PHMA5
639	CWS412	grand fir/Rocky Mountain maple-mallow ninebark	ABGR/ACGL-PHMA5
639	CWS421	grand fir/mallow ninebark	ABGR/PHMA5
639	CWS422	grand fir/Douglas maple/bride's bonnet	ABGR/ACGLD4/CLUN2
639	CWS5	white fir-grand fir/oceanspray-Cascade barberry-vine maple-salal	ABCO-ABGR/HODI-MANE2-ACCI-GASH
639	CWS511	white fir/oceanspray/desertparsley (steep shallow soil)	ABCO/HODI/LOMAT
639	CWS521	grand fir/kinnikinnick	ABGR/ARUV
639	CWS522	grand fir/Cascade barberry	ABGR/MANE2
639	CWS531	grand fir/oceanspray	ABGR/HODI
639	CWS532	grand fir/vine maple/sweet after death	ABGR/ACCI/ACTR

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
639	CWS533	grand fir/giant chinquapin	ABGR/CHCHC4
639	CWS534	grand fir/oceanspray (Gifford Pinchot)	ABGR/HODI
639	CWS535	grand fir/vine maple-hollyleaved barberry/broadleaf starflower	ABGR/ACCI- MAAQ2/TRBOL
639	CWS536	grand fir/beaked hazelnut/sweet after death	ABGR/COCO6/ACTR
639	CWS537	grand fir/Pacific dogwood/sweet after death	ABGR/CONU4/ACTR
639	CWS538	grand fir/vine maple	ABGR/ACCI
639	CWS541	grand fir/Rocky Mountain maple	ABGR/ACGL
639	CWS542	grand fir/Rocky Mountain maple (Idaho)	ABGR/ACGL
639	CWS543	grand fir/Rocky Mountain maple (floodplain)	ABGR/ACGL
639	CWS551	grand fir/vine maple (Wenatchee)	ABGR/ACCI
639	CWS552	grand fir/vine maple-pipsissewa	ABGR/ACCI-CHUM
639	CWS553	grand fir/vine maple/bride's bonnet	ABGR/ACCI/CLUN2
639	CWS554	grand fir/oceanspray/pinegrass	ABGR/HODI/CARU
639	CWS6	white fir-grand fir/whipplea-roughfruit berry-poison oak	ABCO-ABGR/WHMO- RULA2-TOXIC
639	CWS7	white fir-grand fir/Oregon boxleaf-serviceberry	ABCO-ABGR/PAMY- AMELA
639	CWS711	grand fir/Oregon boxleaf (Warm Springs)	ABGR/PAMY
639	CWS712	grand fir/Oregon boxleaf/pinegrass	ABGR/PAMY/CARU
639	CWS722	grand fir/Oregon boxleaf	ABGR/PAMY
639	CWS731	white fir/western serviceberry/threeleaf anemone	ABCO/AMAL/ANDE
639	CWS8	white fir-grand fir/grouse whortleberry	ABCO-ABGR/VASC
639	CWS811	grand fir/grouse whortleberry	ABGR/VASC
639	CWS812	grand fir/grouse whortleberry/twinflower	ABGR/VASC/LIBO3
639	CWS821	grand fir/dwarf bilberry	ABGR/VACA13
639	CWS822	grand fir/dwarf bilberry (Idaho)	ABGR/VACA13
639	CWS911	Engelmann spruce-white fir (bottoms)	PIEN-ABCO
639	CWS912	grand fir/Rocky Mountain maple	ABGR/ACGL
639	CWS931	white fir/poison oak	ABCO/RHDI
639	CWSC	white fir/shrub (tall, cool)	ABCO/2SHRUB
639	CWSM	white fir/shrub (southwest Oregon, mesic)	ABCO/2SHRUB
639	CWX104	Malheur(04) 3A: slope <30%, CWF311, CWS211, CWS811	
639	CWX120	Winema(20): CWS112, CWS114	
639	CWX204	Malheur (04) 3B: slope 30-70%, CWF311, CWS211, CWS811	
639	CWX220	Winema(20): CWH111	
639	CWX320	Winema(20): CLS311, CMS111, CRS111	
639	CWX420	Winema(20): CWC1, CWC2, CWC9, CWH1, CWS1	
639	CWY104	Malheur(04) 5A: slope less 30%, CWG111, CWG112, CDS711	
639	CWY204	Malheur(04) 5B: slope 30-70%, CWG111, CWG112, CDS711	
639	CWY304	Malheur(04) 5C: <30%, serpen., CWG111, CWG112, CDS711	
639	CWY404	Malheur(04) 5D: 30-70%, serpen, CWG111, CWG112, CDS711	
639	CX	coniferous forest	2TE
639	D	desert	
639	DC	cold desert (freezing winters)	
639	DC10	greasewood	SAVE4
639	DC1121	greasewood/inland saltgrass	SAVE4/DISP
639	DC20	shadscale saltbrush	ATCO
639	DC30	winterfat	KRLA2

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
639	DC40	spiny hopsage	GRSP
639	DC4121	spiny hopsage/Sandberg bluegrass	GRSP/POSE
639	DCC512	ponderosa pine-Douglas-fir/snowberry	PIPO-PSME/SYMPH
639	DE3121	winterfat/Sandberg bluegrass	KRLA2/POSE
639	DW	warm desert	
639	DX	desert	
639	F	forbland	2FORB
639	FM	forb (moist, mesic, in forest zone)	2FORB
639	FM10	western brackenfern-blackberry	PTAQ-RUBUS
639	FM20	common beargrass	XETE
639	FM2911	common beargrass-red fescue	XETE-FERU2
639	FM30	forb-grass	2FORB-2GRAM
639	FM3011	garden vetch-subalpine fleabane-blue wildrye	VISA-ERPE3-ELGL
639	FM80	forb (coastal)	2FORB
639	FM88	lupine (coastal)	LUPIN
639	FM90	buckwheat (scabland)	ERIOG
639	FM9111	Douglas' buckwheat/Sandberg bluegrass	ERDO/POSE
639	FM9112	Blue Mountain buckwheat/Sandberg bluegrass	ERST4/POSE
639	FM9113	sulphur-flower buckwheat (ridgetops)	ERUMM
639	FM9122	rock buckwheat/Sandberg bluegrass	ERSP7/POSE
639	FM9123	Douglas' buckwheat/Sandberg bluegrass	ERDO/POSE
639	FM9124	cutleaf daisy/Sandberg bluegrass	ERCO4/POSE
639	FM9125	thymeleaf buckwheat/Sandberg bluegrass	ERTH4/POSE
639	FM9911	common woolly sunflower-varileaf phacelia	ERLA6/PHHE2
639	FS	forb (subalpine and alpine)	2FORB
639	FS10	valerian (subalpine)	VALER
639	FS20	lupine-Indian paintbrush-buttercup (subalpine, moist)	LUPIN-CASTI2-RANUN
639	FS30	saw-wort-seep monkeyflower-marsh marigold (subalpine-wet)	SAUSS-MIGU-CALTH
639	FS40	luetkea (subalpine)	LUETK
639	FS50	poke knotweed (subalpine)	POPH
639	FS5911	poke knotweed (alpine)	POPH
639	FS60	lupine-giant mountain aster-grass (subalpine)	LUPIN-CAMO32-2GRAM
639	FS70	pincushion plant (subalpine)	DILA
639	FW	forb (wet meadows)	2FORB
639	FW10	common cowparsnip (wetlands)	HEMA80
639	FW20	thinleaf cottonsedge/sphagnum-sedge (wetlands)	ERVI9/SPHAG2-CAREX
639	FW2911	common beargrass-red fescue	XETE-FERU2
639	FW30	Cusick's camas (wetlands)	CACU2
639	FW3911	Cusick's camas (seepage)	CACU2
639	FW40	arrowleaf ragwort-bride's bonnet (wetlands)	SETR-CLUN2
639	FW4111	Bride's bonnet-gray alder (wetland)	CLUN2/ALIN2
639	FW4211	arrowleaf ragwort (wetland)	SETR
639	FW4212	field horsetail	EQAR
639	FW4213	northern maidenhair	ADPE
639	FW4221	northern maidenhair (Mt. Hood and Gifford Pinchot)	ADPE
639	FW4222	field horsetail (Mt. Hood and Gifford Pinchot)	EQAR

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
639	FW4223	American skunkcabbage	LYAM3
639	FW4224	seep monkeyflower	MIGU
639	FW4225	woodsorrel	OXALI
639	FW4226	arctic sweet coltsfoot	PEFR5
639	FW4227	brook saxifrage-arrowleaf ragwort	SAOD2-SETR
639	FW4228	arrowleaf ragwort-giant mountain aster	SETR-CAMO32
639	FW4229	coastal hedgenettle-common ladyfern	STCHC3-ATFI
639	FW4230	coastal hedgenettle-seep monkeyflower	STCHC3-MIGU
639	FW4231	coldwater fumewort	COCAA
639	FW50	false hellebore (wetlands)	VERAT
639	FW5111	false hellebore-common cowparsnip	VERAT-HEMA80
639	FW5121	California false hellebore	VECA2
639	FX	forb	2FORB
639	FX4111	Wallowa lewisia (rims)	LECOW
639	GA	grass (annual vegetation)	2GRAM
639	GA10	cheatgrass	BRTE
639	GA20	medusahead	TACA8
639	GA30	dogtail	
639	GA40	soft chess	BROMU
639	GB	bluebunch wheatgrass	PSSP6
639	GB11	Fendler threeawn-sand dropseed	ARPUL/SPCR
639	GB1121	sand dropseed-Sandberg bluegrass	SPCR/POSE
639	GB1122	Fendler threeawn-Sandberg bluegrass	ARPUL/POSE
639	GB1211	sand dropseed (river terrace)	SPCR
639	GB1911	bluebunch wheatgrass-sand dropseed-Fendler threeawn	PSSPS-SPCR-ARPUL
639	GB20	needle and thread	HECOC8
639	GB2121	needle and thread-Sandberg bluegrass	HECOC8/POSE
639	GB2122	needle and thread-Sandberg bluegrass-snow buckwheat	HECOC8/POSE/ERNI 2
639	GB30	squirreltail	ELELE
639	GB40	bluebunch wheatgrass	PSSP6
639	GB41	bluebunch wheatgrass	PSSPS
639	GB4111	bluebunch wheatgrass-parsnipflower buckwheat	PSSPS-ERHE2
639	GB4112	bluebunch wheatgrass-Sandberg bluegrass-narrowleaf skullcap	PSSPS-POSE-SCAN3
639	GB4113	bluebunch wheatgrass-Sandberg bluegrass (basalt)	PSSPS-POSE
639	GB4114	bluebunch wheatgrass-Sandberg bluegrass-Cusick's milkvetch	PSSPS-POSE-ASCU5
639	GB4115	bluebunch wheatgrass-Sandberg bluegrass-shaggy fleabane	PSSPS-POSE-ERPU2
639	GB4116	bluebunch wheatgrass-Sandberg bluegrass (granite)	PSSPS-POSE
639	GB4117	bluebunch wheatgrass-Sandberg bluegrass-Snake River phlox	PSSPS-POSE-PHCO10
639	GB4118	bluebunch wheatgrass-Sandberg bluegrass-plains pricklypear	PSSPS-POSE-OPPO
639	GB4121	bluebunch wheatgrass-Sandberg bluegrass	PSSP6-POSE
639	GB4122	bluebunch wheatgrass-Idaho fescue	PSSP6-FEID
639	GB42	bluebunch wheatgrass (seeded or native)	PSSP6
639	GB43	crested wheatgrass (seeded)	AGCR
639	GB4911	bluebunch wheatgrass-Sandberg bluegrass-onespike danthonia (shallow soil, scabland)	PSSPS-POSE-DAUN
639	GB4912	bluebunch wheatgrass-Idaho fescue (deep soil, gentle slopes)	PSSPS-FEID
639	GB4913	bluebunch wheatgrass-Sandberg bluegrass (shallow soil, steep slopes)	PSSPS-POSE

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
639	GB4914	bluebunch wheatgrass-Idaho fescue (deep soil, steep slopes)	PSSPS-FEID
639	GB50	fescue	FESTU
639	GB5121	common snowberry/Idaho fescue/silky lupine	SYAL/FEID/LUSE4
639	GB5122	Idaho fescue-Nootka rose	FEID-RONU
639	GB5123	Idaho fescue-houndstongue hawkweed	FEID-HICY
639	GB59	Idaho fescue-bluebunch wheatgrass	FEID-PSSPS
639	GB5911	Idaho fescue-prairie Junegrass (ridge)	FEID-KOMA
639	GB5912	Idaho fescue-prairie Junegrass (mounds)	FEID-KOMA
639	GB5913	Idaho fescue-prairie Junegrass (high elevation)	FEID-KOMA
639	GB5914	Idaho fescue-prairie Junegrass (low elevation)	FEID-KOMA
639	GB5915	Idaho fescue-bluebunch wheatgrass (ridge)	FEID-PSSPS
639	GB5916	Idaho fescue-bluebunch wheatgrass-silky lupine	FEID-PSSPS-LUSE4
639	GB5917	Idaho fescue-bluebunch wheatgrass-arrowleaf balsamroot	FEID-PSSPS-BASA3
639	GB5918	Idaho fescue-bluebunch wheatgrass-Snake River phlox	FEID-PSSPS-PHCO10
639	GB5919	common snowberry/Idaho fescue-prairie Junegrass	SYAL/FEID-KOMA
639	GB5920	Idaho fescue-timber oatgrass-sedge	FEID-DAIN-CAREX
639	GB5921	Idaho fescue-Hood's sedge	FEID-CAHO5
639	GB5922	Idaho fescue-Geyer's sedge	FEID-CAGE2
639	GB60	rough fescue	FECA4
639	GB70	giant wildrye	LECI4
639	GB7111	basin wildrye	LECI4
639	GB7121	basin wildrye/inland saltgrass	LECI4/DISP
639	GB90	bluebunch wheatgrass (scabland)	PSSP6
639	GB9111	Sandberg bluegrass-onespike danthonia	POSE-DAUN
639	GB99	Sandberg bluegrass-onespike danthonia (scabland)	POSE-DAUN
639	GBB0	bluebunch wheatgrass (biscuit swale)	PSSP6
639	GBB911	biscuit-scabland complex	
639	GBB921	Idaho fescue-prairie Junegrass/Sandberg bluegrass-onespike danthonia (mounds)	FEID-KOMA/POSE-DAUN
639	GBC0	bluebunch wheatgrass-scattered conifers	PSSP6-2TE
639	GBFX	grass-forb (Snake River)	2GRAM-2FORB
639	GBRR	bluebunch wheatgrass (very rocky, little vegetation)	PSSP6
639	GBRS	bluebunch wheatgrass (steep, stony, little vegetation)	PSSP6
639	GBRX	bluebunch wheatgrass (rocky or steep, little vegetation)	PSSP6
639	GBS0	bluebunch wheatgrass-shrub	PSSP6-2SHRUB
639	GBX104	Malheur(04) 7A: slope less 30%, GB4911, GB4912	
639	GBX204	Malheur(04) 7B: slope 30-70%, GB4913, GB4914	
639	GBX304	Malheur(04) 7C: slope less 30%, serpentine, GB4911, GB4912	
639	GBX404	Malheur(04) 7D: slope 30-70%, serpentine, GB4913, GB4914	
639	GM	grass (moist, mesic, within forest zone)	2GRAM
639	GM10	needlegrass (interior valley, Willamette, Puget Sound)	ACHNA
639	GM20	red fescue (interior valley, Willamette, Puget Sound; coastal)	FERU2
639	GM30	oatgrass-needlegrass (interior valley)	ARRHE-ACHNA
639	GM40	grass (floodplain)	2GRAM
639	GM4111	bluejoint	CACA4
639	GM4112	blue wildrye	ELGL
639	GM4121	blue wildrye-bromegrass	ELGL-BROMU
639	GM80	grass (coastal)	2GRAM
639	GMB9	Puget mima mounds	

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
639	GMC9	grass/scattered conifers (moist, mesic)	2GRAM/2TE
639	GMPX	grass-forb (mesic)	2GRAM/2FORB
639	GR	grass-sedge	2GRAM/CAREX
639	GR10	sedge (low)	CAREX
639	GR20	blue grama	BOGR2
639	GR30	inland saltgrass	DISP
639	GR3121	inland saltgrass	DISP
639	GR80	beachgrass	AMMOP
639	GR81	beachgrass (foredune, sandy dune geology)	AMMOP
639	GR8111	beachgrass (foredune)	AMMOP
639	GR82	beachgrass (hummocks, sand dune geology)	AMMOP
639	GR8211	beachgrass/lupine/bluegrass (hummocks, occasionally wet, dense)	AMMOP/LUPIN/POA
639	GR8212	beachgrass/lupine (hummocks, occasionally wet, unstable, open)	AMMOP/LUPIN
639	GR8213	beachgrass/lupine/bluegrass (hummocks, dry, eroding)	AMMOP/LUPIN/POA
639	GR83	beachgrass (dune slip face)	AMMOP
639	GR8311	beachgrass (dune slip face, stabilized)	AMMOP
639	GS	grass (subalpine or alpine)	2GRAM
639	GS10	western needlegrass (alpine)	ACOCO
639	GS11	greenleaf fescue	FEVI
639	GS1111	greenleaf fescue-Hood's sedge	FEVI-CAH05
639	GS1112	greenleaf fescue-silvery lupine	FEVI-LUARL5
639	GS12	Idaho fescue (alpine)	FEID
639	GS1211	Idaho fescue (subalpine)	FEID
639	GS13	rough fescue (alpine)	FECA4
639	GS20	sedge (alpine, tall)	CAREX
639	GS30	sedge (alpine, short, dense)	CAREX
639	GS3911	Geyer's sedge (subalpine)	CAGE2
639	GS40	sedge (alpine, short, thin)	CAREX
639	GS50	needlegrass/squirreltail (alpine)	ACHNA/ELEL5
639	GSC0	grasslands-scattered conifers (subalpine to alpine)	2GRAM-2TE
639	GSXX	grasslands (alpine xeric)	2GRAM
639	GSY104	Malheur(04) 9C: slope-30%, serpent, SD91 11, CJS8 11, GS91 11	
639	GSY204	Malheur(04) 9D: 30-70%, serpentine, SD91 11, CJS8 11, GS91 11	
639	GX	grass	2GRAM
639	HA	red alder	ALRU2
639	HAC0	red alder/conifers	ALRU2/2TE
639	HAF0	red alder/forb	ALRU2/2FORB
639	HAF1	red alder/western swordfern	ALRU2/POMU
639	HAF2	red alder/short forbs	ALRU2/2FORB
639	HAF211	red alder/arctic sweet coltsfoot	ALRU2/PEFRP
639	HAF221	red alder/blue wildrye	ALRU2/ELGL
639	HAF222	red alder/woodsorrel	ALRU2/OXALI
639	HAF223	red alder/arctic sweet coltsfoot	ALRU2/PEFR5
639	HAF224	red alder/coastal hedgenettle	ALRU2/STCHC3
639	HAF225	red alder/youth on age-Siberian springbeauty	ALRU2/TOME-CLIS

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
639	HAH0	red alder/hardwoods	ALRU2/2TD
639	HAM0	red alder (wetlands, moist to wet soil)	ALRU2
639	HAM1	red alder (overflow bottomland)	ALRU2
639	HAM2	white alder (overflow bottomland)	ALRH2
639	HAS0	red alder/shrub	ALRU2/2SHRUB
639	HAS1	red alder/salmonberry-thimbleberry	ALRU2/RUSP-RUPA
639	HAS111	red alder/thimbleberry	ALRU2/RUPA
639	HAS112	red alder/salmonberry/woodsorrel	ALRU2/RUSP/OXALI
639	HAS113	red alder/salmonberry/youth on age	ALRU2/RUSP/TOME
639	HAS2	red alder/Pacific ninebark-common snowberry	ALRU2/PHCA11-SYAL
639	HAS211	red alder/Pacific ninebark	ALRU2/PHCA11
639	HAS3	red alder/vine maple	ALRU2/ACCI
639	HAS311	red alder/vine maple	ALRU2/ACCI
639	HAS4	red alder/devilsclub	ALRU2/OPHO
639	HAS411	red alder/devilsclub	ALRU2/OPHO
639	HAZ212	red alder (TM type map, temporary, Siusilaw)	ALRU2
639	HAZ312	red alder-conifer (TM type map, temporary, Siusilaw)	ALRU2/2TE
639	HB	bigleaf maple	ACMA3
639	HBM0	bigleaf maple (wetlands, moist to wet soil)	ACMA3
639	HBM1	bigleaf maple (overflow bottomlands, moist)	ACMA3
639	HBS0	bigleaf maple/shrub	ACMA3/2SHRUB
639	HBS1	bigleaf maple/vine maple (talus slopes)	ACMA3/ACCI
639	HBS2	bigleaf maple/hazelnut/western swordfern	ACMA3/CORYL/POM U
639	HC	black cottonwood-ash (bottom land, overflow bottom)	POBAT-FRAXI
639	HCC0	cottonwood-ash-scattered conifers (bottomland)	POPUL-FRAXI-2TE
639	HCC111	black cottonwood-Engelmann spruce/alder-dogwood	POBAT-PIEN/ ALNUS-CORNU
639	HCG0	black cottonwood-ash/grass-sedge	POBAT-FRAXI/ 2GRAM-CAREX
639	HCG111	black cottonwood/widefruit sedge (wetlands)	POBAT/CAAN15
639	HCS0	cottonwood-willow/shrub	POPUL-SALIX/ 2SHRUB
639	HCS1	cottonwood-willow	POBAT-SALIX
639	HCS111	black cottonwood/thinleaf alder/woolly sedge	POBAT/ALINT/ CAPE42
639	HCS112	black cottonwood/Pacific willow	POBAT/SALUL
639	HCS113	black cottonwood/thinleaf alder-redosier dogwood	POBAT/ALINT- COSES
639	HCS114	black cottonwood/Rocky Mountain maple	POBAT/ACGL
639	HCS121	black cottonwood/western water hemlock (wetlands)	POBAT/CIDO
639	HCS2	ash-willow	FRAXI-SALIX
639	HCS3	black cottonwood/common snowberry-spirea	POBAT/SYAL-SPIRA
639	HCS311	black cottonwood/common snowberry/bluegrass (wetlands)	POBAT/SYAL/POA
639	HCXX	black cottonwood	POBAT
639	HL	canyon live oak (canyon over 16 ft tall)	QUCH2
639	HLRR	canyon live oak (rocky with little ground vegetation)	QUCH2
639	HLRS	canyon live oak (steep, stony with little ground vegetation)	QUCH2

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
639	HLRX	canyon live oak (rocky or steep sites with little ground vegetation)	QUCH2
639	HM	Pacific madrone	ARME
639	HMRR	Pacific madrone (rocky sites with little ground vegetation)	ARME
639	HMRS	Pacific madrone (steep sites with little ground vegetation)	ARME
639	HMRX	Pacific madrone (rocky or steep sites with little ground vegetation)	ARME
639	HMS0	Pacific madrone/shrub	ARME/2SHRUB
639	HMS1	Pacific madrone/canyon live oak	ARME/QUCH2
639	HO	Oregon white oak-California black oak	QUGA4-QUKE
639	HOF0	Oregon white oak-California black oak/forb	QUGA4- QUKE/2FORB
639	HOF1	Oregon white oak-California black oak/strawberry-yarrow	QUGA4- QUKE/FRAGA-ACHIL
639	HOF111	Oregon white oak/woods strawberry/hedgehog dogtail	QUGA4/FRVEB/CYEC
639	HOG0	Oregon white oak-California black oak/grass	QUGA4- QUKE/2GRAM
639	HOG1	Oregon white oak-California black oak/bunchgrass	QUGA4- QUKE/2GRAM
639	HOG111	Oregon white oak/bluebunch wheatgrass	QUGA4/PSSPS
639	HOG2	Oregon white oak-California black oak/rhizomatous grass	QUGA4- QUKE/2GRAM
639	HOG211	Oregon white oak/pinegrass-Geyer's sedge	QUGA4/CARU- CAGE2
639	HOG3	Oregon white oak-California black oak/annual grass	QUGA4- QUKE/2GRAM
639	HOS0	Oregon white oak-California black oak/shrub	QUGA4- QUKE/2SHRUB
639	HOS1	Oregon white oak-California black oak/Pacific poison oak	QUGA4-QUKE/TODI
639	HOS2	Oregon white oak-California black oak/cherry-common snowberry	QUGA4- QUKE/PRUNU-SYAL
639	HOS3	Oregon white oak-California black oak/serviceberry-common snowberry	QUGA4- QUKE/AMELA-SYAL
639	HOS311	Oregon white oak/beaked hazelnut-common snowberry	QUGA4/COCO6-SYAL
639	HOS4	Oregon white oak-California black oak/beaked hazelnut	QUGA4- QUKE/COCO6
639	HOS5	Oregon white oak-California black oak/deerbrush	QUGA4-QUKE/CEIN3
639	HOS6	Oregon white oak-California black oak/bitterbrush	QUGA4- QUKE/PURSH
639	HQ	quaking aspen	POTR5
639	HQC0	quaking aspen-conifers	POTR5-2TE
639	HQC111	quaking aspen-lodgepole pine/rose spirea/forb	POTR5- PICO/SPDO/2FORB
639	HQC112	quaking aspen-lodgepole pine/kinnikinnick	POTR5-PICO/ARUV
639	HQG0	quaking aspen/grass (dryland)	POTR5/2GRAM
639	HQG1	quaking aspen/pinegrass	POTR5/CARU
639	HQG111	quaking aspen/pinegrass	POTR5/CARU
639	HQM0	quaking aspen (wetlands, moist to wet soils)	POTR5
639	HQM1	quaking aspen/grass (wetland)	POTR5/2GRAM
639	HQM121	quaking aspen/blue wildrye	POTR5/ELGL

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
639	HQM122	quaking aspen/Kentucky bluegrass	POTR5/POPR
639	HQM123	quaking aspen/bluejoint	POTR5/CACA4
639	HQM2	quaking aspen/Nebraska sedge (wetland)	POTR5/CANE2
639	HQM211	quaking aspen/woolly sedge	POTR5/CAPE42
639	HQM3	quaking aspen/short sedge (wetland)	POTR5/CAREX
639	HQM4	quaking aspen/shrub (wetland)	POTR5/2SHRUB
639	HQM411	quaking aspen-lodgepole pine/rose spirea/widefruit sedge	POTR5- PICO/SPDO/CAAN15
639	HQS0	quaking aspen/shrub	POTR5/2SHRUB
639	HQS1	quaking aspen/hawthorn	POTR5/CRATA
639	HQS2	quaking aspen/common snowberry	POTR5/SYAL
639	HQS211	quaking aspen/common snowberry	POTR5/SYAL
639	HQS221	quaking aspen/common snowberry/ blue wildrye	POTR5/SYAL/ELGL
639	HQS3	quaking aspen/sagebrush	POTR5/ARTEM
639	HT	tanoak (over 16 feet tall)	LIDE3
639	HTC0	tanoak-conifers	LIDE3-2TE
639	HTC1	tanoak-redwood	LIDE3-SESE3
639	HTC111	tanoak-coast redwood	LIDE3-SESE2
639	HTC2	tanoak-western hemlock	LIDE3-TSHE
639	HTC211	tanoak-western hemlock	LIDE3-TSHE
639	HTC3	tanoak-Port Orford cedar	LIDE3-CHLA
639	HTC311	tanoak-Port-Orford cedar	LIDE3-CHLA
639	HTC4	tanoak-white fir	LIDE3-ABCO
639	HTC411	tanoak-white fir-vine maple	LIDE3-ABCO-ACCI
639	HTC412	tanoak-white fir	LIDE3-ABCO
639	HTH0	tanoak-hardwoods	LIDE3-2TD
639	HTH1	tanoak-canyon live oak	LIDE3-QUCH2
639	HTH111	tanoak-canyon live oak	LIDE3-QUCH
639	HTH112	tanoak-canyon live oak/dwarf Oregon grape	LIDE3-QUCH/BENE
639	HTH2	tanoak-California laurel	LIDE3-UMCA
639	HTH211	tanoak-California laurel	LIDE3-UMCA
639	HTH3	tanoak-vine maple	LIDE3-ACCI
639	HTH311	tanoak/vine maple	LIDE3/ACCI
639	HTRR	tanoak (rocky, little ground vegetation)	LIDE3
639	HTRS	tanoak (steep slopes, little ground vegetation)	LIDE3
639	HTRX	tanoak (rocky or steep sites, little ground vegetation)	LIDE3
639	HTS0	tanoak/shrub	LIDE3/2SHRUB
639	HTS1	tanoak/California huckleberry	LIDE3/VAOV2
639	HTS111	tanoak/evergreen huckleberry-salal	LIDE3/VAOV2-GASH
639	HTS112	tanoak/evergreen huckleberry	LIDE3/VAOV2
639	HTS2	tanoak/Pacific rhododendron	LIDE3/RHODO
639	HTS221	tanoak/Pacific rhododendron	LIDE3/RHMA
639	HTS222	tanoak/Pacific rhododendron-evergreen huckleberry	LIDE3/RHMA-VAOV2
639	HTS223	tanoak/Pacific rhododendron-salal	LIDE3/RHMA-GASH
639	HTS3	tanoak/creeping barberry-common snowberry	LIDE3/MARE11- SYAL
639	HTS311	tanoak/dwarf Oregon grape	LIDE3/BENE
639	HTS312	tanoak/dwarf Oregon grape-poison oak	LIDE3/BENE-RHDI
639	HTS321	tanok/salal	LIDE3/GASH

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
639	HTS331	tanoak/salal-Pacific rhododendron	LIDE3/GASH-RHMA
639	HTS341	tanoak/salal-dwarf Oregon grape	LIDE3/GASH-BENE
639	HTS4	tanoak/Pacific poison oak	LIDE3/TODI
639	HTS411	tanoak/poison oak-hairy honeysuckle	LIDE3/RHDI-LOHI
639	HTS5	tanoak/California buckthorn	LIDE3/FRCA12
639	HTS511	tanoak/California coffeeberry	LIDE3/RHCA
639	HX	hardwood	2TD
639	MD	meadow, dry (water table available part of the growing season)	
639	MD10	Cusick's bluegrass (dry meadow)	POCU3
639	MD1911	Cusick's bluegrass (dry meadow)	POCU3
639	MD20	tufted hairgrass (dry meadow)	DECA18
639	MD30	Kentucky bluegrass (dry meadow)	POPR
639	MD3111	Kentucky bluegrass (dry meadow)	POPR
639	MD3112	Kentucky bluegrass (meadows on ridges)	POPR
639	MDC0	scattered conifers (dry meadow)	2TE
639	MDMW	grass-sedge (dry, moist and wet meadows)	2GRAM/CAREX
639	MM	meadow, moist (water table available all growing season)	
639	MM10	tufted hairgrass (moist meadow)	DECA18
639	MM19	tufted hairgrass (moist meadow)	DECA18
639	MM1911	tufted hairgrass-Nebraska sedge	DECA18-CANE2
639	MM1912	tufted hairgrass (moist meadow)	DECA18
639	MM1921	tufted hairgrass-sedge (moist meadow)	DECA18-CAREX
639	MM1922	tufted hairgrass-sedge (wet meadow)	DECA18-CAREX
639	MM20	sedge (tall, moist meadow)	CAREX
639	MM2911	woolly sedge (moist meadow)	CAPE42
639	MM2912	Nebraska sedge (moist meadow)	CANE2
639	MM2913	widefruit sedge (moist meadow)	CAAN15
639	MM2914	water sedge (aquatic moist meadow)	CAAQ
639	MM2915	analogue sedge (moist meadow)	CASI2
639	MM2916	woodrush sedge (moist meadow)	CALU7
639	MM2917	Northwest Territory sedge (moist meadow)	CAUT
639	MM2918	Cusick's sedge (moist meadow)	CACU5
639	MM2919	lakeshore sedge (moist meadow)	CALEL
639	MM2920	woollyfruit sedge (moist meadow)	CALA11
639	MM2921	bingleaf sedge (moist meadow)	CAAM10
639	MM2922	naked sedge (moist meadow)	CANU5
639	MM2924	panicled bulrush (moist meadow)	SCMI2
639	MM2925	fowl mannagrass (moist meadow)	GLST
639	MM2931	lakeshore sedge	CALE8
639	MM30	sedge (short, moist meadow)	CAREX
639	MM3911	sedge-Howell's marsh marigold	CAREX/CALEH2
639	MM40	redtop (moist meadow)	AGGI2
639	MM50	sedge (moist meadow)	CAREX
639	MM80	grass-forb (moist meadow, coastal)	2GRAM-2FORB
639	MM90	Kentucky bluegrass (moist meadow)	POPR
639	MMB0	meadow complex/wet-moist-dry pothole	
639	MMB8	slough sedge-rush-red fescue (deflation plain potholes/slough)	CAOB3-JUNCU-FERU2
639	MMC0	conifer (moist meadow)	2TE

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
639	MMX104	Malheur(04) 10A: slope less 15%, MD, MM, MW (meadows)	
639	MS	meadow (subalpine/alpine moist)	
639	MS10	grass-sedge-forb (subalpine dry meadows)	2GRAM-CAREX-2FORB
639	MS1111	Brewer's sedge (dry subalpine meadow)	CABR12
639	MS20	grass-sedge (subalpine moist meadows)	2GRAM-CAREX
639	MS2111	black alpine sedge (moist subalpine meadow)	CANI2
639	MS2112	broom sedge-black alpine sedge-tufted hairgrass (subalpine meadow)	CASC11-CANI2-DECA18
639	MS25	forb (subalpine moist meadows)	2FORB
639	MS30	grass-sedge-forb (subalpine wet meadows)	2GRAM-CAREX-2FORB
639	MS3111	mountain sedge (subalpine wet meadow)	CASC12
639	MSC0	conifer (subalpine to alpine meadows)	2TE
639	MSXX	grass-sedge (subalpine to alpine meadow)	2GRAM-CAREX
639	MT	Tule meadow (standing water most or all of growing season)	SCACO2
639	MT19	bulrush	SCIRP
639	MT1911	sedge-panicled bulrush (hydric)	CAREX-SCMI2
639	MT1921	panicled bulrush	SCMI2
639	MT80	cattail-bulrush	TYPHA/SCIRP
639	MT8111	cattail-bulrush/waterlily-waterweed	TYPHA-SCIRP/NYMPH-ELODE
639	MT99	water (coastal saline)	
639	MW	meadow, wet (surface moist or wet all growing season)	
639	MW10	sedge (tall, wet meadow)	CAREX
639	MW1911	Nebraska sedge-Baltic rush (wet meadow)	CANE2-JUBA
639	MW1921	panicled bulrush-bigleaf sedge	SCMI2-CAAM10
639	MW1922	Sitka sedge	CAAQD
639	MW1923	blister sedge	CAVE6
639	MW1924	beaked sedge	CARO6
639	MW1925	greenfruit sedge	CAIN17
639	MW20	sedge (short, wet meadow)	CAREX
639	MW2911	woollyfruit sedge	CALA11
639	MW30	rush (wet meadow)	
639	MW3911	Sierra rush	JUNE
639	MW3912	Baltic rush	JUBA
639	MW40	spike sedge (wet meadow)	CANA2
639	MW4911	fewflower spikerush	ELQU2
639	MW4912	common spikerush	ELPA3
639	MW80	wet meadow-coastal, fresh water	
639	MW8111	slough sedge/American skunk cabbage-red currant (valley fill)	CAOB3/LYAM3-RITR
639	MW8112	slough sedge/waterlily-pondweed-cattail	CAOB3/NYMPH-POTAM-TYPHA
639	MW90	wet meadow-coastal, salt spray influence	
639	MWC0	scattered conifers (wet meadow, surface moisture)	2TE
639	MX	grass-sedge (meadow)	2GRAM/CAREX
639	NA	avalanche paths, sparsely to non-vegetated	
639	NAC0	scattered conifers (avalanche path)	2TE

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
639	NAS0	shrub (scattered, avalanche path)	2SHRUB
639	NC	cinders, lava flow, mud flow, glacial wash (less than 10% vegetation)	
639	NCA0	alpine-subalpine cinders, lava flow, mud flow, glacial wash	
639	NCA1	whitebark pine-subalpine fir-mountain hemlock (alpine)	PIAL-ABLA-TSME
639	NCA111	whitebark pine-mountain hemlock/Pacific hulsea (steep cinders)	PIAL-TSME/HUAL
639	NCA2	grass-sedge (alpine, cinders, lava, pumice)	2GRAM/CAREX
639	NCA3	common juniper (alpine, cinders, lava, pumice)	JUCO6
639	NCA4	Pacific hulsea-pincushionplant (cinders, lava flow, glacial wash)	HUAL-NAVAR
639	NCA411	Pacific hulsea (alpine, steep cinders)	HUAL
639	NCC0	conifer (cinders, lavas, outwash)	2TE
639	NCC1	mountain hemlock-subalpine fir-whitebark pine-lodgepole pine (cinders, lava, pumice)	TSME-ABLA-PIAL-PICO
639	NCC111	whitebark pine/beardtongue (alpine, pumice-lava)	PIAL/PENST
639	NCC2	western hemlock (cinders, lava, pumice)	TSHE
639	NCC3	Douglas-fir (cinders, lava)	PSME-ABIES
639	NCC4	Douglas-fir-oak (cinders, lava)	PSME-QUERC
639	NCC5	lodgepole pine (cinders, lava)	PICO
639	NCC6	ponderosa pine (cinders, lava)	PIPO
639	NCH0	hardwood (cinders, lavas, outwash)	2TD
639	NCH1	red alder-quaking aspen (mud-glacial flows)	ALRU2-POTR5
639	NCS0	shrub (scattered, cinders, lavas, outwash)	2SHRUB
639	NCS1	vine maple (cinders, lavas, outwash)	ACCI
639	NCS111	shrub (lava flows)	2SHRUB
639	NCS2	Sitka alder-willow (cinders, lavas, outwash)	ALVIS-SALIX
639	NF	flood plain periodically denuded of vegetation	
639	NFC0	conifer (non-vegetated flood plain)	2TE
639	NFS0	willow-shrubs (non-vegetated flood plain)	SALIX-2SHRUB
639	NI	ice fields, glaciers, ice caves, ice dominated land	
639	NIT1	ice tunnel or cave, twilight zone	
639	NIT2	ice tunnel or cave, zero light zone	
639	NL	landform failure (natural slumps, avalanches)	
639	NM	mine tailings, dredgings, man-caused minimal vegetation potential	
639	NMC0	conifer (mine tailings, dredgings)	2TE
639	NMC1	lodgepole pine (mine tailings, dredgings)	PICO
639	NMH0	hardwood (mine tailings, dredgings)	2TD
639	NMH1	cottonwood (mine tailings, dredgings)	POPUL
639	NMH2	quaking aspen (mine tailings, dredgings)	POTR5
639	NMS0	shrub (mine tailings dredgings)	2SHRUB
639	NMS1	willow (mine tailings, dredgings)	SALIX
639	NR	rocky land with minimal vegetation potential	
639	NRA0	rocky land in alpine or subalpine locations	
639	NRA1	conifer (rocky land, alpine)	2TE
639	NRA2	grass-sedge (alpine, rocky)	2GRAM/CAREX
639	NRA3	common juniper (rocky land, alpine)	JUCO6
639	NRA311	common juniper (subalpine steep scoria)	JUCO6
639	NRA4	forb (alpine, rocky)	2FORB

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
639	NRC0	conifer (rock)	2TE
639	NRL0	ledge or cliff, steeper than 200% (60 degrees)	
639	NRL1	ledge or cliff, smooth face, verticle distance less than 20 ft	
639	NRL2	ledge or cliff, smooth face, verticle distance more than 20 ft	
639	NRL5	ledge or cliff, broken face/ledges, verticle distance less than 20 feet	
639	NRL6	ledge or cliff, broken face/ledges, verticle distance more than 20 feet	
639	NRL911	rock garden (steep, zeric)	
639	NRL912	rock garden (steep, moist)	
639	NRNO	rock, no vegetation	
639	NRQ0	quarry, rock pit	
639	NRRO	rock, flat with scattered plants (less than 200% slope)	
639	NR911	rock graden (flat, xeric) scattered plants on rock	
639	NRS0	shrub (rocky land)	2SHRUB
639	NRT1	tunnel or cave, twilight zone	
639	NRT2	tunnel or cave, zero light zone	
639	NS	sand with minimal vegetation, shoreline or interior	
639	NSG0	grass (scattered with sand dunes)	2GRAM
639	NSG1	wildrye-wheatgrass (sand dune)	ELYMU/AGROP2
639	NSG8	beachgrass (coastal sand dune, rolling, partial beachgrass stability)	AMMOP
639	NSN0	open sand of any dunal character, no vegetation	
639	NSN111	Pacific coast beach	
639	NSN2	transverse ridge, sand dune system, no vegetation	
639	NSN211	transverse ridge, occasionally wet, winter stable	
639	NSN212	transverse ridge, dry, moving sand	
639	NSN3	oblique ridge, sand dune system, no vegetation	
639	NSN311	oblique ridge, fore slope, moving sand	
639	NSN312	oblique ridge, precipitation ridge, active sand	
639	NSN313	oblique ridge, precipitation ridge, active, threat, veget	
639	NSN4	parabola ridge, sand dune system, no vegetation	
639	NT	talus land with minimal vegetation potential	
639	NTA0	talus slopes in alpine or subalpine locations	
639	NTA1	pine-mountain hemlock-subalpine fir (talus)	PINUS-TSME-ABLA
639	NTA2	grass-sedge (alpine, talus)	2GRAM-CAREX
639	NTA3	juniper (talus land, alpine)	JUNIP
639	NTA4	forb (alpine, talus)	2FORB
639	NTC0	conifer (talus)	2TE
639	NTH0	hardwood (talus slopes)	2TD
639	NTH1	bingleaf maple (talus)	ACMA3
639	NTH2	white oak (talus)	QUAL
639	NTS0	shrub (talus slopes)	2SHRUB
639	NTS1	cherry-snowberry-Lewis' mock orange (talus)	PRUNU-GAULT-PHLE4
639	NTS111	Lewis' mock orange (talus strips)	PHLE4
639	NTS2	vine maple (talus)	ACCI
639	NTS211	vine maple (talus slopes)	ACCI
639	NTS3	Klamath plum (talus)	PRSU2

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
639	NTS911	talus slopes with little vegetation	
639	NX	non-vegetated land, less than 10% vegetation cover	
639	SC	chaparral, evergreen shrubland, forest zone and nonforest	
639	SC10	snowbrush ceanothus-chaparral	CEVE
639	SC20	manzanita	ARCTO3
639	SC30	oak-tanoak-canyon live oak (less than 16 ft. tall)	QUERC-LIDE3- QUCH2
639	SC40	mountain mahogany	CERCO
639	SC50	yerba santa-silktassel	ERIOD/GARRY
639	SC60	shrub (short)	2SHRUB
639	SD	sagebrush (dry shrubland, nonforest zone shrubland not desert)	ARTEM
639	SD10	little sagebrush-black sagebrush	ARAR8-ARNO4
639	SD1911	little sagebrush/Idaho fescue-bluebunch wheatgrass	ARAR8/FEID-PSSPS
639	SD1912	little sagebrush/Idaho fescue	ARAR8/FEID
639	SD1913	little sagebrush/Idaho fescue-squirreltail	ARAR8/FEID-ELELE
639	SD1921	black sagebrush/bluebunch wheatgrass	ARNO4/PSSP6
639	SD1922	black sagebrush/Idaho fescue	ARNO4/FEID
639	SD1924	little sagebrush/bluebunch wheatgrass	ARAR8/PSSP6
639	SD1925	little sagebrush/Idaho fescue	ARAR8/FEID
639	SD1926	little sagebrush/Idaho fescue	ARART/FEID
639	SD20	big sagebrush	ARTR2
639	SD21	big sagebrush	ARTR2
639	SD2121	big sagebrush/bluebunch wheatgrass	ARTR2/PSSPS
639	SD2122	big sagebrush/Idaho fescue	ARTR2/FEID
639	SD2123	big sagebrush/needle and thread	ARTR2/HECOC8
639	SD2124	big sagebrush/Sandberg bluegrass	ARTR2/POSE
639	SD2131	little sagebrush/Idaho fescue	ARARL/FEID
639	SD2133	Wyoming big sagebrush/Sandberg bluegrass	ARTRW8/POSE
639	SD2134	Wyoming big sagebrush/squirreltail	ARTRW8/ELELE
639	SD2135	Wyoming big sagebrush/Thurber's needlegrass	ARTRW8/ACTH7
639	SD2136	Wyoming big sagebrush/bluebunch wheatgrass	ARTRW8/PSSP6
639	SD2137	Wyoming big sagebrush/Dore's needlegrass	ARTRW8/ACNED
639	SD2138	basin big sagebrush/bluebunch wheatgrass	ARTRT/PSSP6
639	SD2139	basin big sagebrush/Idaho fescue	ARTRT/FEID
639	SD2140	basin big sagebrush/Dore's needlegrass	ARTRT/ACNED
639	SD22	threetip sagebrush	ARTR4
639	SD2221	threetip sagebrush/Idaho fescue	ARTR4/FEID
639	SD2222	threetip sagebrush/needle and thread	ARTR4/HECOC8
639	SD2223	threetip sagebrush/bluebunch wheatgrass	ARTR4/PSSPS
639	SD2231	threetip sagebrush/bluebunch wheatgrass (Idaho)	ARTR4/PSSP6
639	SD2232	threetip sagebrush/Idaho fescue (Idaho)	ARTR4/FEID
639	SD23	silver sagebrush	ARCA13
639	SD2311	big sagebrush/Cusick's bluegrass	ARTR2/POCU3
639	SD2321	silver sagebrush/Idaho fescue	ARCA13/FEID
639	SD2911	mountain big sagebrush/Idaho fescue-bluebunch wheatgrass	ARTRV/FEID-PSSPS
639	SD2912	basin big sagebrush/bluebunch wheatgrass	ARTRT/PSSPS
639	SD2913	big sagebrush-antelope bitterbrush/Idaho fescue-bluebunch wheatgrass	ARTR2-PUTR2/FEID- PSSPS

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
639	SD2914	big sagebrush/western needlegrass (rhyolite pumice)	ARTR2/ACOCO
639	SD2915	mountain big sagebrush/Geyer's sedge	ARTRV/CAGE2
639	SD2916	mountain big sagebrush-antelope bitterbrush/Idaho fescue	ARTRV-PUTR2/FEID
639	SD2917	mountain big sagebrush-mountain snowberry	ARTRV-SYOR2
639	SD2921	mountain big sagebrush/bluebunch wheatgrass	ARTRV/PSSP6
639	SD2922	mountain big sagebrush/Idaho fescue	ARTRV/FEID
639	SD2923	mountain big sagebrush/Dore's needlegrass	ARTRV/ACNED
639	SD2924	mountain big sagebrush-mountain snowberry/bluebunch wheatgrass	ARTRV-SYOR2/PSSP6
639	SD2925	mountain big sagebrush-mountain snowberry/Idaho fescue	ARTRV-SYOR2/FEID
639	SD2926	mountain big sagebrush-mountain snowberry/Geyer's sedge	ARTRV-SYOR2/CAGE2
639	SD2927	mountain big sagebrush/bluebunch wheatgrass (xeric)	ARTRV/PSSP6
639	SD2928	mountain big sagebrush/Idaho fescue (xeric)	ARTRV/FEID
639	SD30	antelope bitterbrush-squaw apple-mountain snowberry	PUTR2-PERA4-SYOR2
639	SD31	antelope bitterbrush	PUTR2
639	SD3111	antelope bitterbrush/Idaho fescue-bluebunch wheatgrass	PUTR2/FEID-PSSPS
639	SD3112	antelope bitterbrush/bluebunch wheatgrass	PUTR2/PSSPS
639	SD3121	antelope bitterbrush/needle and thread (Daubenmier)	PUTR2/HECOC8
639	SD3122	antelope bitterbrush/bluebunch wheatgrass (Daubenmier)	PUTR2/PSSPS
639	SD3123	antelope bitterbrush/Idaho fescue (Daubenmier)	PUTR2/FEID
639	SD3131	antelope bitterbrush/bluebunch wheatgrass (Idaho)	PUTR2/PSSP6
639	SD3132	antelope bitterbrush/Dore's needlegrass (Idaho)	PUTR2/ACNED
639	SD3311	antelope bitterbrush/western needlegrass-long-stolen sedge	PUTR2/ACOCO-CAIN9
639	SD40	curl-leaf mountain mahogany	CELE3
639	SD41	curl-leaf mountain mahogany/bunchgrass	CELE3/2GRAM
639	SD4111	curl-leaf mountain mahogany/Idaho fescue-bluebunch wheatgrass	CELE3/FEID-PSSPS
639	SD4112	curl-leaf mountain mahogany/bluebunch wheatgrass	CELE3/PSSP6
639	SD42	curl-leaf mountain mahogany/rhizomatous grass	CELE3/2GRAM
639	SD43	curl-leaf mountain mahogany/sagebrush	CELE3/ARTEM
639	SD44	curl-leaf mountain mahogany/mountain snowberry	CELE3/SYOR2
639	SD49	curl-leaf mountain mahogany	CELE3
639	SD50	netleaf hackberry-black hawthorn	CELAR-CRD02
639	SD5121	black hawthorn/common snowberry	CRD02/SYAL
639	SD5611	netleaf hackberry/bluebunch wheatgrass	CELAR/PSSPS
639	SD5621	netleaf hackberry/cheatgrass	CELAR/BRTE
639	SD60	smooth sumac	RHGL
639	SD6121	smooth sumac/bluebunch wheatgrass	RHGL/PSSPS
639	SD6122	smooth sumac/sand dropseed	RHGL/SPCR
639	SD6123	smooth sumac/Fendler threeawn	RHGL/ARPUL
639	SD65	spiny greasebush/bluebunch wheatgrass	GLSPA/PSSPS
639	SD70	rabbitbrush	CHRYS9
639	SD80	common snowberry-cherry-rose	SYAL-PRUNU-ROSA5
639	SD90	shrub (scabland)	2SHRUB
639	SD91	scabland sagebrush	ARRI2
639	SD9111	scabland sagebrush/Sandberg bluegrass (scabland)	ARRI2/POSE

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
639	SD9112	scabland sagebrush/Sandberg bluegrass (Idaho)	ARRI2/POSE
639	SD9121	scabland sagebrush/Sandberg bluegrass (Daubenmier)	ARRI2/POSE
639	SD9131	scabland sagebrush/Sandberg bluegrass-bigseed biscuitroot (scabland)	ARRI2/POSE-LOMA3
639	SD92	little sagebrush (scabland)	ARAR8
639	SD9211	little sagebrush-narrowleaf mock goldenweed/Sandberg bluegrass	ARAR8-STST5/POSE
639	SD9212	little sagebrush/Sandberg bluegrass-onespike danthonia	ARAR8/POSE-DAUN
639	SD9221	little sagebrush/Sandberg bluegrass (scabland)	ARAR8/POSE
639	SD9222	little sagebrush/Sandberg bluegrass (Idaho)	ARAR8/POSE
639	SD93	buckwheat (scablands)	ERIOG
639	SD9321	snow buckwheat/Sandberg bluegrass	ERNI2/POSE
639	SD9322	slender buckwheat/Oregon twinpod	ERMI4/PHOR2
639	SD9323	sulpher-flower buckwheat/stipa (flats, rhyolite pumice)	ERUM/STIPA
639	SDB9	biscuit-scabland (complex)	
639	SDC0	sagebrush-conifer-shrub (dry)	ARTEM-2TE-2SHRUB
639	SDX104	Malheur(04) 8A: less 30%/SD19 11, SD29 11, SD39, SD49, CPS1 11, CJS1 11, CJS2 11	
639	SDX204	Malheur(04) 8B: 30-70%/SD19 11, SD29 11, SD39, SD49, CPS1 11, CJS1 11, CJS2 11	
639	SDXX	shrub (xeric)	2SHRUB
639	SDY104	Malheur(04) 9A: less 30% slope/SD91 11, CJS8 11, GB91 11. SCAB	
639	SDY204	Malheur(04) 9B: slope 30-70%/SD91 11, CJS8 11, GB91 11. SCAB	
639	SM	shrub (moist, mesic, forest zone)	2SHRUB
639	SM10	mallow ninebark	PHMA5
639	SM1111	mallow ninebark-common snowberry	PHMA5-SYAL
639	SM19	mallow ninebark	PHMA5
639	SM20	Sitka alder (snow slides)	ALVIS
639	SM30	cherry-mock orange-snowberry-serviceberry-rose-oceanspray-ceanothus	PRUNUS-PHILA-GAULT-AMELA-ROSA5-HOLOD-CEANO
639	SM31	common snowberry (shrubland)	SYAL
639	SM3111	common snowberry-rose	SYAL/ROSA5
639	SM32	mountain snowberry	SYOR2
639	SM3911	shrub (bottoms)	2SHRUB
639	SM40	blueberry	VACCI
639	SM50	salmonberry-blackberry	RUSP-RUBUS
639	SM5911	thimbleberry-poke knotweed	RUPA-POPH
639	SM80	shrub (coastal, west-side)	2SHRUB
639	SM81	shrub (tall)	2SHRUB
639	SM8111	Sitka alder (rocky soil)	ALVIS
639	SM8112	vine maple (rocky soil)	ACCI
639	SM82	shrub (mid)	2SHRUB
639	SM83	shrub (short)	2SHRUB
639	SM84	gorse	ULEX
639	SM90	shrub (scabland dominated by mesic shrubs)	2SHRUB
639	SMB0	shrub-buckwheat (biscuit-scabland complex, moist)	2SHRUB-ERIOG

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
639	SMC0	shrub-scattered conifers (moist, mesic, in forest zone)	2SHRUB/2TE
639	SMXX	shrub (mesic)	2SHRUB
639	SS	shrub (subalpine and alpine)	2SHRUB
639	SS10	heath-mountain heather (alpine)	ERICA/CASSI3
639	SS1911	pink mountainheath (meadow)	PHEM
639	SS20	juniper (alpine mountain)	JUNIP
639	SS30	shrub (alpine deciduous)	2SHRUB
639	SS40	mountain big sagebrush	ARTRV
639	SS4911	mountain big sagebrush/Geyer's sedge	ARTRV/CAGE2
639	SS4912	mountain big sagebrush/Geyer's sedge (Idaho)	ARTRV/CAGE2
639	SS4913	mountain big sagebrush/California brome	ARTRV/BRCA5
639	SS4921	little sagebrush/red fescue (alpine)	ARAR8/FERU2
639	SS50	alpine low blueberry	VAAN
639	SSC0	shrub-conifer (subalpine)	2SHRUB-2TE
639	SSX104	Malheur(04) 1A: SS49 11, GS39 11, GS12 11, CAG1 11, FS59 11	
639	SSXX	shrub (subalpine)	2SHRUB
639	SW	shrub (wetlands, shrubs less than 16 ft. tall)	2SHRUB
639	SW10	willow (wetlands)	SALIX
639	SW1111	willow/Kentucky bluegrass	SALIX/POPR
639	SW1112	willow/woolly sedge	SALIX/CAPE42
639	SW1113	willow/widefruit sedge	SALIX/CAAN15
639	SW1114	willow/water sedge	SALIX/CAAQ
639	SW1115	willow/Sitka sedge	SALIX/CAAQD
639	SW1116	willow/beaked sedge	SALIX/CAR06
639	SW1117	narrowleaf willow	SAEX
639	SW1118	willow/Columbian monkshood	SALIX/ACCO4
639	SW1119	willow/tufted hairgrass	SALIX/DECA18
639	SW1120	mountain willow-undergreen willow (bog)	SAEA-SACO2
639	SW1121	mountain willow-undergreen willow/mountain sedge	SAEA-SACO2/CASC12
639	SW1122	mountain willow-Booth's willow/black alpine sedge	SAEA-SABO2/CANI2
639	SW1123	willow/Northwest Territory sedge	SALIX/CAUT
639	SW1131	Sitka willow	SASI2
639	SW1132	Sitka willow/arctic sweet coltsfoot	SASI2/PEFR5
639	SW20	alder (wetlands)	ALNUS
639	SW21	white alder	ALRH2
639	SW2111	Sitka alder/common ladyfern	ALVIS/ATFI
639	SW2112	Sitka alder/drooping woodreed	ALVIS/CILA2
639	SW2113	Sitka alder/common cowparsnip	ALVIS/HEMA80
639	SW2114	gray alder/bigleaf sedge	ALIN2/CAAM10
639	SW2115	gray alder/Northwest Territory sedge	ALIN2/CAUT
639	SW2116	gray alder/common ladyfern	ALIN2/ATFI
639	SW2117	gray alder/field horsetail	ALIN2/EQAR
639	SW2118	gray alder/Dewey sedge	ALIN2/CADE9
639	SW2119	gray alder/common cowparsnip	ALIN2/HEMA80
639	SW2120	gray alder/Kentucky bluegrass	ALIN2/POPR
639	SW2121	gray alder/bluejoint	ALIN2/CACA4
639	SW2122	gray alder/panicked bulrush	ALIN2/SCMI2
639	SW2123	gray alder/woolly sedge	ALIN2/CAPE42

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
639	SW2131	gray alder-oval-leaf blueberry	ALIN2-VAOV
639	SW2132	Sitka alder	ALVIS
639	SW2211	gray alder/common snowberry	ALIN2/SYAL
639	SW2212	gray alder/rose spirea	ALIN2/SPDO
639	SW2213	gray alder (spring)	ALIN2
639	SW2214	gray alder (bank)	ALIN2
639	SW2215	gray alder/fowl mannagrass	ALIN2/GLST
639	SW2216	gray alder-redosier dogwood/mesic forb	ALIN2-COSES/ 2FORB
639	SW2217	gray alder-currant/mesic forb	ALIN2-RIBES/2FORB
639	SW25	red alder (shrubby lifeform)	ALRU2
639	SW2511	red alder (shrubby lifeform)	ALRU2
639	SW2512	red alder (shrubby)/Carolina bugbane	ALRU2/TRCA
639	SW2911	gray alder (shrubfield)	ALIN2
639	SW30	black hawthorn (wetlands)	CRDO2
639	SW3111	black hawthorn	CRDO2
639	SW3120	black hawthorn/common snowberry	CRDO2/SYAL
639	SW3121	quaking aspen/black hawthorn/common snowberry	POTR5/CRDO2/SYAL
639	SW3122	black hawthorn/common cowparsnip	CRDO2/HEMA80
639	SW3123	quaking aspen/black hawthorn/common cowparsnip	POTR5/CRDO2/HEM A80
639	SW40	rose spirea-bog blueberry (wetlands)	SPDO/VAUL
639	SW4111	bog blueberry/Sitka sedge	VAUL/CAAQD
639	SW4112	bog blueberry/fewflower spikerush	VAUL/ELQU2
639	SW4113	rose spirea	SPDO
639	SW4121	blueberry-rose meadowsweet/grass (wetland)	VACCI- SPSPS/2GRAM
639	SW4122	rose spirea-bog blueberry/sedge (wetland)	SPDO-VAUL/CAREX
639	SW4123	spirea-willow/sedge (wetland)	SPIRA-SALIX/CAREX
639	SW4131	redosier dogwood	COSES
639	SW4132	oval-leaf blueberry	VAOV
639	SW50	currant-shrubby cinquefoil	RIBES/DAFL3
639	SW5111	currant/drooping woodreed	RIBES/CILA2
639	SW5112	redosier dogwood	COSES
639	SW5113	shrubby cinquefoil/tufted hairgrass	DAFL3/DECA18
639	SW5114	shrubby cinquefoil/Kentucky bluegrass	DAFL3/POPR
639	SW5121	stink currant-salmonberry/woodsorrel	RIBR-RUSP/OXALI
639	SW5122	stink currant-salmonberry/arctic sweet coltsfoot	RIBR-RUSP/PEFR5
639	SW5123	stink currant-salmonberry/youth on age	RIBR-RUSP/TOME
639	SW60	silver sagebrush-mountain big sagebrush (meadow)	ARCA13/ARTRV
639	SW6111	silver sagebrush/tufted hairgrass	ARCA13/DECA18
639	SW6112	silver sagebrush/Kentucky bluegrass	ARCA13/POPR
639	SW6113	mountain big sagebrush/Cusick's bluegrass	ARTRV/POCU3
639	SW70	vine maple	ACCI
639	SW7111	vine maple-gray alder	ACCI-ALIN2
639	SW7112	vine maple/coastal hedgenettle	ACCI/STCHC3
639	SW7113	devilsclub	OPHO
639	SW80	willow (coastal shrub wetlands)	SALIX/MYRIC
639	SW81	shrub (coastal in a deflation plain)	2SHRUB

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
639	SW8111	shrub (deflation plain, high water)	2SHRUB
639	SW8112	salal-blueberry-willow (deflation plain, high water)	GASH-VACCI-SALIX
639	SWC0	shrub-conifer (wet)	2SHRUB/2TE
639	SWXX	shrub (wet)	2SHRUB
639	SX	shrub	2SHRUB
639	TX	tundra	
639	WC0	white fir and grand fir with associated conifers	ABCO-ABGR-2TE
639	WC1	white fir-incense cedar-pine	ABCO-CADE27-PINUS
639	WE	estuary systems - interface between fresh and saline water	
639	WE10	bar built, geology - sand dune estuarian system	
639	WE11	bar built, fresh-saline water highly stratified	
639	WE12	bar built, fresh-saline water moderately mixed	
639	WE13	bar built, fresh-saline water well mixed	
639	WE1311	bar built, well mixed saline, active flood plain	
639	WE1319	bar built, well mixed saline, tidal exposed sandy bottom	
639	WE1329	bar built, well mixed saline, tidal exposed clay bottom	
639	WE1339	bar built, well mixed saline, tidal exposed stony bottom	
639	WE1359	bar built, well mix saline, tidal salt marsh (eelgrass)	
639	WE20	drowned river estuarian system	
639	WE21	drowned river/fresh-saline water highly stratified	
639	WE22	drowned river/fresh-saline water moderate mixed	
639	WE23	drowned river/fresh-saline water well mixed	
639	WE30	fjord type of estuarian system	
639	WE31	fjord/fresh-saline water highly stratified	
639	WE32	fjord/fresh-saline water moderately mixed	
639	WE33	fjord/fresh-saline water well mixed	
639	WE40	tectonic (faulted) estuarian system	
639	WE41	tectonic/fresh-saline water highly stratified	
639	WE42	tectonic/fresh-saline water moderately mixed	
639	WE43	tectonic/fresh-saline water well mixed	
639	WL10	perennial water, no ice cover during average year	
639	WL11	perennial, no ice cover, less 5 acres	
639	WL12	perennial, no ice cover, 5-25 acres	
639	WL13	perennial, no ice cover, 25-100 acres	
639	WL14	perennial, no ice cover, 100-500 acres	
639	WL15	perennial, no ice cover, over 500 acres	
639	WL20	perennial, ice cover less than 30 days, average year	
639	WL21	perennial, ice less 30 days, less 5 acres	
639	WL22	perennial, ice less 30 days, 5-25 acres	
639	WL23	perennial, ice less 30 days, 25-100 acres	
639	WL24	perennial, ice less 30 days, 100-500 acres	
639	WL25	perennial, ice less 30 days, over 500 acres	
639	WL30	perennial, ice cover 30-90 days during average year	
639	WL31	perennial, ice 30-90 days, less 5 acres	
639	WL32	perennial, ice 30-90 days, 5-25 acres	
639	WL33	perennial, ice 30-90 days, 25-100 acres	
639	WL34	perennial, ice 30-90 days, 100-500 acres	
639	WL35	perennial, ice 30-90 days, over 500 acres	

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
639	WL40	perennial, ice cover 90-150 days, during average year	
639	WL41	perennial, ice 90-150 days, less 5 acres	
639	WL42	perennial, ice 90-150 days, 5-25 acres	
639	WL43	perennial, ice 90-150 days, 25-100 acres	
639	WL44	perennial, ice 90-150 days, 100-500 acres	
639	WL45	perennial, ice 90-150 days, over 500 acres	
639	WL50	perennial, ice cover 150-210 days during average year	
639	WL51	perennial, ice cover 150-210 days, less 5 acres	
639	WL52	perennial, ice cover 150-210 days, 5-25 acres	
639	WL53	perennial, ice cover 150-210 days, 25-100 acres	
639	WL54	perennial, ice cover 150-210 days, 100-500 acres	
639	WL55	perennial, ice cover 150-210 days, over 500 acres	
639	WL60	perennial, ice cover longer than 210 days, average year	
639	WL61	perennial, ice longer 210 days, less 5 acres	
639	WL62	perennial, ice longer 210 days, 5-25 acres	
639	WL63	perennial, ice longer 210 days, 25-100 acres	
639	WL64	perennial, ice longer 210 days, 100-500 acres	
639	WL65	perennial, ice longer 210 days, over 500 acres	
639	WL90	intermittent lake, pond, impoundment	
639	WO	oceans, seas, saline water bodies	
639	WO10	water, deep, abyss	
639	WO20	ocean intertidal beach	
639	WO30	oceanic continental shelf	
639	WR	running water-stream, river, creek, ditch	
639	WR10	perennial, max mo. mean temperature less 45F(7C)	
639	WR11	perennial, max mo. mean temp less 45F, less 1% grade	
639	WR12	perennial, max mo. mean temp less 45F, 1-3% grade	
639	WR13	perennial, max mo. mean temp less 45F, 3-6% grade	
639	WR14	perennial, max mo. mean temp less 45F, 6-12% grade	
639	WR15	perennial, max mo. mean temp less 45F, more 12% grade	
639	WR20	perennial, max mo. mean temperature 45F-55F(7C-13C)	
639	WR21	perennial, max mo. temp 45F-55F, less 1% grade	
639	WR22	perennial, max mo. temp 45F-55F, 1-3% grade	
639	WR23	perennial, max mo. temp 45F-55F, 3-6% grade	
639	WR24	perennial, max mo. temp 45F-55F, 6-12% grade	
639	WR25	perennial, max mo. temp 45F-55F, greater 12% grade	
639	WR30	perennial, max mo. mean temperature 55F-65F (13C-18C)	
639	WR31	perennial, max mo. temp 55F-65F, less 1% grade	
639	WR32	perennial, max mo. temp 55F-65F, 1-3% grade	
639	WR33	perennial, max mo. temp 55F-65F, 3-6% grade	
639	WR34	perennial, max mo. temp 55F-65F, 6-12% grade	
639	WR35	perennial, max mo. temp 55F-65F, greater 12% grade	
639	WR40	perennial, max mo. mean temperature 65F-75F (18C-24C)	
639	WR41	perennial, max mo. temp 65F-75F, less 1% grade	
639	WR42	perennial, max mo. temp 65F-75F, 1-3% grade	
639	WR43	perennial, max mo. temp 65F-75F, 3-6% grade	
639	WR44	perennial, max mo. temp 65F-75F, 6-12% grade	
639	WR45	perennial, max mo. temp 65F-75F, greater 12% grade	
639	WR50	perennial, max mo. mean temperature greater 75F (24C)	

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
639	WR51	perennial, max mo. temp greater 75F, less 1% grade	
639	WR52	perennial, max mo. temp greater 75F, 1-3% grade	
639	WR53	perennial, max mo. temp greater 75F, 3-6% grade	
639	WR54	perennial, max mo. temp greater 75F, 6-12% grade	
639	WR55	perennial, max mo. temp greater 75F, 12% grade	
639	WR90	intermittent streams, rivers	
639	WS115	white fir/snowbrush ceanothus-longstalk sedge	ABCO/CEVE-CAPE4
639	WS116	white fir/snowbrush ceanothus-squawcarpet-Virginia strawberry	ABCO/CEVE-CEPR-FRVI
639	WX	water (no association specified)	2W
640	CAF0	subalpine fir-whitebark pine/Jacob's ladder	ABLA-PIAL/POPU3
640	CAF2	subalpine fir-whitebark pine/fleeceflower	ABLA-PIAL/POPH
640	CAF322	whitebark pine/prickly sandwort	PIAL/ARAC2
640	CAF323	whitebark pine/silvery lupine	PIAL/LUAR3
640	CAF324	subalpine fir-whitebark pine/prickly sandwort	ABLA-PIAL/ARAC2
640	CAG111	subalpine fir/elk sedge	ABLA/CAGE2
640	CAG131	whitebark pine/elk sedge	PIAL/CAGE2
640	CAG132	subalpine fir-whitebark pine/Parry's rush-Lemmon's needlegrass	ABLA-PIAL/JUPA-STLE2
640	CAG133	subalpine fir-whitebark pine/elk sedge	ABLA-PIAL/CAGE2
640	CAG221	whitebark pine/green fescue	PIAL/FEVI
640	CAG222	subalpine fir-whitebark pine/green fescue	ABLA-PIAL/FEVI
640	CAG3	subalpine fir-whitebark pine/Drummond's rush	ABLA-PIAL/JUDR
640	CAS311	whitebark pine/grouse huckleberry/smooth woodrush	PIAL/VASC/LUHI4
640	CAS312	whitebark pine/grouse huckleberry/heartleaf arnica	PIAL/VASC/ARCO9
640	CAS313	whitebark pine/grouse huckleberry/prickly sandwort	PIAL/VASC/ARAC2
640	CAS422	whitebark pine/mountain juniper/pinemat manzanita	PIAL/JUCO6/ARNE
640	CAS423	subalpine fir-whitebark pine/mountain juniper-pinemat manzanita	ABLA-PIAL/JUCO6-ARNE
640	CAS424	subalpine fir-whitebark pine/mountain juniper	ABLA-PIAL/JUCO6
640	CAS511	limber pine/mountain juniper	PIFL2/JUCO6
640	CAS512	whitebark pine/mountain gooseberry/Jacob's ladder	PIAL/RIMO2/POPU3
640	CAS611	subalpine fir-whitebark pine/mountain gooseberry/Jacob's ladder	ABLA-PIAL/RIMO2/POPU3
640	CAS621	subalpine fir-whitebark pine/grouse huckleberry/heartleaf arnica	ABLA-PIAL/VASC/ARCO9
640	CAS622	subalpine fir-whitebark pine/grouse huckleberry/Ross' sedge	ABLA-PIAL/VASC/CARO5
640	CAS623	subalpine fir-whitebark pine/grouse huckleberry/prickly sandwort	ABLA-PIAL/VASC/ARAC2
640	CAS624	subalpine fir-whitebark pine/grouse huckleberry-pink mountain heather	ABLA-PIAL/VASC-PHEM
640	CAS625	subalpine fir-whitebark pine/grouse huckleberry/green fescue	ABLA-PIAL/VASC/FEVI
640	CAS626	subalpine fir-whitebark pine/grouse huckleberry/little ricegrass	ABLA-PIAL/VASC/OREX
640	CAS627	subalpine fir-whitebark pine/grouse huckleberry/Wallowa lewisia	ABLA-PIAL/VASC/LECOW2
640	CAS628	subalpine fir-whitebark pine/grouse huckleberry-pink mountain heather (avalanche)	ABLA-PIAL/VASC-PHEM (AVALANCHE)

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
640	CAS629	subalpine fir-whitebark pine/grouse huckleberry/green fescue (avalanche)	ABLA-PIAL/VASC/FEVI (AVALANCHE)
640	CDF313	Douglas-fir/western bugbane	PSME/TRCAO
640	CDG111	Douglas-fir/elk sedge	PSME/CAGE2
640	CDG112	Douglas-fir/pinegrass	PSME/CARU
640	CDG121	Douglas-fir/pinegrass	PSME/CARU
640	CDG333	Douglas-fir-ponderosa pine-western juniper/Idaho fescue	PSME-PIPO-JUOC/FEID
640	CDS611	Ponderosa pine-Douglas-fir/common snowberry-oceanspray	PIPO-PSME/SYAL-HODI
640	CDS622	Douglas-fir/common snowberry	PSME/SYAL
640	CDS623	Douglas-fir/mountain snowberry	PSME/SYOR2
640	CDS624	Douglas-fir/common snowberry	PSME/SYAL
640	CDS625	Douglas-fir/mountain snowberry	PSME/SYOR2
640	CDS628	Douglas-fir/common snowberry (floodplain)	PSME/SYAL
640	CDS634	Douglas-fir/white spirea	PSME/SPBE2
640	CDS642	Douglas-fir/mountain snowberry/elk sedge	PSME/SYOR2/CAGE2
640	CDS664	Douglas-fir/pinemat manzanite/elk sedge	PSME/ARNE/CAGE2
640	CDS711	Douglas-fir/ninebark	PSME/PHMA5
640	CDS722	Douglas-fir/Rocky Mountain maple-ninebark	PSME/ACGL-PHMA5
640	CDS724	Douglas-fir/Rocky Mountain maple-mallow ninebark (floodplain)	PSME/ACGL-PHMA5 (FLOODPLAIN)
640	CDS725	Douglas-fir/Rocky Mountain maple-mountain snowberry	PSME/ACGL-SYOR2
640	CDS812	Douglas-fir/big huckleberry	PSME/VAME
640	CDS821	Douglas-fir/big huckleberry	PSME/VAME
640	CDS911	Douglas-fir/mountain gooseberry/Jacob's ladder	PSME/RIMO2/POPU3
640	CSDSD	Douglas-fir/mountain mahogany/elk sedge	PSME/CELE3/CAGE2
640	CEF111	subalpine fir/beargrass	ABLA/XETE
640	CEF2	subalpine fir-Englemann spruce/twinflower	ABLA-PIEN/LIBO3
640	CEF221	subalpine fir/twinflower	ABLA/LIBO3
640	CEF311	subalpine fir/twisted stalk	ABLA/STAM2
640	CEF331	subalpine fir/false bugbane	ABLA/TRCA
640	CEF332	subalpine fir/ladyfern	ABLA/ATFI
640	CEF333	subalpine fir/arrowleaf groundsel	ABLA/SETR
640	CEF334	Engelmann spruce/ladyfern	PIEN/ATFI
640	CEF335	Engelmann spruce/arrowleaf groundsel	PIEN/SETR
640	CEF336	subalpine fir-Engelmann spruce/arrowleaf groundsel	ABLA-PIEN/SETR
640	CEF411	subalpine fir/Jacob's ladder	ABLA/POPU3
640	CEF412	subalpine fir/heartleaf arnica	ABLA/ARCO9
640	CEF425	subalpine fir-Engelmann spruce/False bugbane	ABLA-PIEN/TRCA
640	CEF426	subalpine fir-Engelmann spruce/Jacob's ladder	ABLA-PIEN/POPU3
640	CEF435	subalpine fir/heartleaf arnica	ABLA/ARCO9
640	CEF436	subalpine fir-Engelmann spruce/heartleaf arnica	ABLA-PIEN/ARCO9
640	CEF437	subalpine fir-Engelmann spruce/queen's cup beadlily	ABLA-PIEN/CLUN2
640	CEF511	subalpine fir/alpine fleecflower	ABLA/POPH
640	CEG131	subalpine fir-Engelmann spruce/smooth woodrush	ABLA-PIEN/LUHI4
640	CEG201	Engelmann spruce-subalpine fir/Holm's Rocky Mountain sedge	PIEN-ABLA/CASC12
640	CEG312	subalpine fir/pinegrass	ABLA/CARU

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
640	CEG323	subalpine fir/western needlegrass	ABLA/STOC2
640	CEG411	subalpine fir/green fescue	ABLA/FEVI
640	CEG412	subalpine fir/drummond's rush	ABLA/JUDR
640	CEG413	subalpine fir/slender rush	ABLA/JUTE
640	CEG414	subalpine fir/Parry's rush (avalanche)	ABLA/JUPA (AVALANCHE)
640	CEM121	Engelmann spruce/softleaf sedge	PIEN/CADI6
640	CEM122	subalpine fir/softleaf sedge	ABLA/CADI6
640	CEM123	subalpine fir/water sedge	ABLA/CAAQ
640	CEM124	subalpine fir/bluejoint	ABLA/CACA4
640	CEM125	Engelmann spruce/Columbia brome	PIEN/BRVU
640	CEM126	Engelmann spruce/drooping woodreed	PIEN/CILA2
640	CEM201	Engelmann spruce-subalpine fir/arrowleaf groundsel	PIEN-ABLA/SETR
640	CEM211	Engelmann spruce/common horsetail	PIEN/EQAR
640	CEM313	subalpine fir/bog blueberry/broom sedge	ABLA/VAUL/CASC11
640	CES131	subalpine fir/queencup beadlily	ABLA/CLUN2
640	CES2	subalpine fir-Engelmann spruce/rusty menziesia	ABLA-PIEN/MEFE
640	CES214	subalpine fir/Cascade azalea	ABLA/RHAL2
640	CES215	subalpine fir-Engelmann spruce/white rhododendron	ABLA-PIEN/RHAL2
640	CES221	subalpine fir/rusty menziesia	ABLA/MEFE
640	CES311	subalpine fir/big huckleberry	ABLA/VAME
640	CES314	subalpine fir/queencup beadlily	ABLA/CLUN2
640	CES315	subalpine fir/big huckleberry	ABLA/VAME
640	CES316	subalpine fir/big huckleberry (floodplain)	ABLA/VAME (FLOODPLAIN)
640	CES411	subalpine fir/grouse huckleberry	ABLA/VASC
640	CES414	subalpine fir/twinflower	ABLA/LIBO3
640	CES415	subalpine fir/grouse huckleberry/Jacob's ladder	ABLA/VASC/POPU3
640	CES427	subalpine fir-Engelmann spruce/grouse huckleberry-pink mountain heath	ABLA-PIEN/VASC- PHEM
640	CES428	subalpine fir/grouse huckleberry-pink mountain heather	ABLA/VASC-PHEM
640	CES429	subalpine fir/pinemat manzanita/prickly sandwort	ABLA/ARNE/ARAC2
640	CES511	Engelmann spruce/red osier dogwood	PIEN/COST4
640	CES610	subalpine fir-Engelmann spruce/Labrador tea (floodplain)	ABLA-PIEN/LEGL (FLOODPLAIN)
640	CES612	subalpine fir-Engelmann spruce/Labrador tea	ABLA-PIEN/LEGL
640	CES710	subalpine fir-Engelmann spruce/rusty menziesia (floodplain)	ABLA-PIEN/MEFE (FLOODPLAIN)
640	CES8	subalpine fir-western white pine/prince's pine	ABLA-PIMO3/CHUM
640	CJC1	mountain juniper	JUCO6
640	CJG111	western juniper/Idaho fescue-bluebunch wheatgrass	JUOC/FEID-AGSP
640	CJG113	western juniper/bluebunch wheatgrass	JUOC/AGSP
640	CJS1	western juniper/low sagebrush	JUOC/ARAR8
640	CJS111	western juniper/low sagebrush	JUOC/ARAR8
640	CJS112	western juniper/low sagebrush/Idaho fescue	JUOC/ARAR8/FEID
640	CJS2	western juniper/mountain big sagebrush/Idaho fescue-bluebunch wheatgrass	JUOC/ARTRV/FEID- AGSP
640	CJS211	western juniper/mountain big sagebrush	JUOC/ARTRV
640	CJS321	western juniper/bitterbrush/Idaho fescue-bluebunch wheatgrass	JUOC/PUTR2/FEID- AGSP

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
640	CJS41	western juniper/curl-leaf mountain mahogany/Idaho fescue-bluebunch wheatgrass	JUOC/CELE3/FEID-PSSPS
640	CJS42	western juniper/curl-leaf mountain mahogany/Geyer's sedge	JUOC/CELE3/CAGE2
640	CJS5	Rocky Mountain juniper-mountain mahogany	JUSC2/CELE3
640	CJS8	western juniper/stiff sagebrush	JUOC/ARRI2
640	CJS811	western juniper/stiff sagebrush (scabland)	JUOC/ARRI2 (SCAB)
640	CLF211	lodgepole pine-grand fir/twinflower	PICO-ABGR/LIBO3
640	CLG11	lodgepole pine-subalpine fir/needle and thread	PICO-ABLA/HECO26
640	CLG21	lodgepole pine-grand fir/pinegrass	PICO-ABGR/CARU
640	CLG211	lodgepole pine(grand fir)/grouse huckleberry/pinegrass	PICO(ABGR)/VASC/CARU
640	CLG322	lodgepole pine-subalpine fir/Geyer's sedge	PICO-ABLA/CAGE2
640	CLM112	lodgepole pine/Kentucky bluegrass	PICO/POPR
640	CLM114	lodgepole pine/aquatic sedge	PICO/CAAQ
640	CLM115	lodgepole pine/tufted hairgrass	PICO/DECE
640	CLM116	lodgepole pine/woolly sedge	PICO/CAPE42
640	CLM117	lodgepole pine/bluejoint	PICO/CACA4
640	CLM118	lodgepole pine/Holm's Rocky Mountain sedge	PICO/CASC12
640	CLM511	lodgepole pine/thinleaf alder/mesic forb	PICO/ALINT/2FORB
640	CLS411	lodgepole pine(subalpine fir)/grouse huckleberry	PICO(ABLA)/VASC
640	CLS415	lodgepole pine(subalpine fir)/grouse huckleberry/Jacob's ladder	PICO(ABLA)/VASC/POPU3
640	CLS416	lodgepole pine/pinegrass	PICO/CARU
640	CLS417	lodgepole pine-grand fir/grouse whortleberry/pinegrass	PICO-ABGR/VASC/CARU
640	CLS418	lodgepole pine-subalpine fir/grouse whortleberry	PICO-ABLA/VASC
640	CLS5	lodgepole pine(grand fir)/big huckleberry/twinflower	PICO(ABGR)/VAME-LIBO3
640	CLS511	lodgepole pine/big huckleberry	PICO/VAME
640	CLS512	lodgepole pine-grand fir/thinleaf huckleberry/pinegrass	PICO-ABGR/VAME/CARU
640	CLS513	lodgepole pine-grand fir/thinleaf huckleberry	PICO-ABGR/VAME
640	CLS514	lodgepole pine-subalpine fir/thinleaf huckleberry	PICO-ABLA/VAME
640	CLS515	lodgepole pine(subalpine fir)/big huckleberry	PICO(ABLA)/VAME
640	CLS516	lodgepole pine-subalpine fir/thinleaf huckleberry/pinegrass	PICO-ABLA/VAME/CARU
640	CLS519	lodgepole pine-grand fir/thinleaf huckleberry/western brackenfern	PICO-ABGR/VAME/PTAQ
640	CLS57	lodgepole pine-grand fir/pinemat manzanita	PICO-ABGR/ARNE
640	CLS58	lodgepole pine-grand fir/Sitka alder	PICO-ABGR/ALVIS
640	CMS131	mountain hemlock/grouse huckleberry	TSME/VASC
640	CMS231	mountain hemlock/big huckleberry	TSME/VAME
640	CPC212	ponderosa pine-western juniper/mountain mahogany-mountain snowberry	PIPO-JUOC/CELE3-SYOR2
640	CPG111	ponderosa pine/bluebunch wheatgrass	PIPO/AGSP
640	CPG112	ponderosa pine/Idaho fescue	PIPO/FEID
640	CPG131	ponderosa pine/Idaho fescue	PIPO/FEID
640	CPG132	ponderosa pine/bluebunch wheatgrass	PIPO/AGSP
640	CPG221	ponderosa pine/pinegrass	PIPO/CARU
640	CPG222	ponderosa pine/elk sedge	PIPO/CAGE2

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
640	CPM111	ponderosa pine/blue wildrye	PIPO/ELGL
640	CPM112	ponderosa pine/Kentucky bluegrass	PIPO/POPR
640	CPS131	ponderosa pine/mountain big sagebrush/Idaho fescue-bluebunch wheatgrass	PIPO/ARTRV/FEID-AGSP
640	CPS132	ponderosa pine/big sagebrush/Geyer's sedge	PIPO/ARTR2/CAGE2
640	CPS221	ponderosa pine/bitterbrush/Ross' sedge	PIPO/PUTR2/CAR05
640	CPS222	ponderosa pine/bitterbrush/elk sedge	PIPO/PUTR2/CAGE2
640	CPS226	ponderosa pine/bitterbrush/Idaho fescue-bluebunch wheatgrass	PIPO/PUTR2/FEID-AGSP
640	CPS229	ponderosa pine/bitterbrush/bluebunch wheatgrass-Sandberg's bluegrass	PIPO/PUTR2/AGSP-POSA12
640	CPS231	ponderosa pine/bitterbrush/bluebunch wheatgrass	PIPO/PUTR2/AGSP
640	CPS232	ponderosa pine/mountain mahogany/elk sedge	PIPO/CELE3/CAGE2
640	CPS233	ponderosa pine/mountain mahogany/Wheeler's bluegrass	PIPO/CELE3/PONE W
640	CPS234	ponderosa pine/mountain mahogany/Idaho fescue-bluebunch wheatgrass	PIPO/CELE3/FEID-AGSP
640	CPS511	ponderosa pine/common snowberry (floodplain)	PIPO/SYAL (FLOODPLAIN)
640	CPS522	ponderosa pine/common snowberry	PIPO/SYAL
640	CPS523	ponderosa pine/birchleaf spiraea	PIPO/SPBE2
640	CPS524	ponderosa pine/common snowberry	PIPO/SYAL
640	CPS525	ponderosa pine/mountain snowberry	PIPO/SYOR2
640	CPS61	ponderosa pine/little sagebrush	PIPO/ARAR8
640	CPS722	ponderosa pine/black hawthorn	PIPO/CRD02
640	CPS8	ponderosa pine/squaw apple	PIPO/PERA4
640	CPS9	ponderosa pine/smooth sumac	PIPO/RHGL
640	CQM111	western white pine/tufted hairgrass	PIM03/DECA18
640	CWC811	grand fir/Pacific yew/queencup beadlily	ABGR/TABR2/CLUN 2
640	CWC812	grand fir/Pacific yew/twinflower	ABGR/TABR2/LIBO3
640	CWF311	grand fir/twinflower	ABGR/LIBO3
640	CWF312	grand fir/twinflower	ABGR/LIBO3
640	CWF421	grand fir/queencup beadlily	ABGR/CLUN2
640	CWF422	grand fir/Pacific yew/queencup beadlily	ABGR/TABR2/CLUN 2
640	CWF424	grand fir/Pacific yew/twinflower (floodplain)	ABGR/TABR2/LIBO3 (FLOODPLAIN)
640	CWF444	grand fir/heartleaf arnica	ABGR/ARCO9
640	CWF511	grand fir/goldthread	ABGR/COOC
640	CWF512	grand fir/false bugbane	ABGR/TRCA
640	CWF611	grand fir/oakfern	ABGR/GYDR
640	CWF612	grand fir/sword fern-ginger	ABGR/POMU-ASCA2
640	CWF613	grand fir/ladyfern	ABGR/ATFI
640	CWG111	grand fir/elk sedge	ABGR/CAGE2
640	CWG112	grand fir/pinegrass	ABGR/CARU
640	CWG113	grand fir/pinegrass	ABGR/CARU
640	CWG211	grand fir/Columbia brome	ABGR/BRVU
640	CWM311	grand fir/woolly sedge	ABGR/CAPE42
640	CWS211	grand fir/big huckleberry	ABGR/VAME

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
640	CWS212	grand fir/big huckleberry	ABGR/VAME
640	CWS232	grand fir-Alaska cedar/thinleaf huckleberry	ABGR-CHNO/VAME
640	CWS314	grand fir/common snowberry (floodplain)	ABGR/SYAL (FLOODPLAIN)
640	CWS321	grand fir/birchleaf spiraea	ABGR/SPBE2
640	CWS322	grand fir/birchleaf spiraea	ABGR/SPBE2
640	CWS412	grand fir/Rocky Mountain maple-ninebark	ABGR/ACGL-PHMA5
640	CWS423	grand fir/black hawthorn/Dewey's sedge	ABGR/CRD02/CADE 9
640	CWS541	grand fir/Rocky Mountain maple	ABGR/ACGL
640	CWS543	grand fir/Rocky Mountain maple (floodplain)	ABGR/ACGL (FLOODPLAIN)
640	CWS811	grand fir/grouse huckleberry	ABGR/VASC
640	CWS812	grand fir/grouse huckleberry-twinflower	ABGR/VASC-LIBO3
640	CWS912	grand fir/Rocky Mountain maple	ABGR/ACGL
640	FM9111	Douglas' buckwheat-Sandberg's bluegrass	ERDO-POSA12
640	FM9112	strict buckwheat/Sandberg's bluegrass	ERST4-POSA12
640	FM9113	sulphurflower (ridge)	ERUM (RIDGE)
640	FS1113	linanthastrum-cymopterus	LINU4-CYTEF
640	FS5912	alpine fleecflower-green fescue	POPH-FEVI
640	FS5913	alpine fleecflower-pinegrass-elm sedge	POPH-CARU-CAGE2
640	FS5914	alpine fleecflower-elm sedge-linanthastrum	POPH-CAGE2-LINU4
640	FS5915	alpine fleecflower-horsemint-linanthastrum	POPH-AGUR-LINU4
640	FS5916	alpine fleecflower (cornices)	POPH (CORNICES)
640	FS80	linanthastrum-mountain mugwort	LINU4-ARLU
640	FS81	western coneflower-tarweed	RUOC2-MAGL2
640	FS8101	western coneflower	RUOC2
640	FS8111	bracken fern-Hood's sedge	PTAQ-CAH05
640	FS8112	mountain balm	MOOD
640	FS8113	pygmy lewisia-tarweed	LEPY2-MAGL2
640	FS8115	linanthastrum-longleaf arnica	LINU4-ARLO6
640	FS8116	golden buckwheat-coiled parrot's beak	ERFL4-PECO6
640	FS8117	phlox-cymopteris	PHLOX-CYTEF
640	FS8118	phlox-Ivesia	PHLOX-IVGO
640	FS90	scree	SCREE
640	FS91	rock outcrop	ROCK OUTCROP
640	FS92	grus	GRUS
640	FW3911	Cusick's camas (seep)	CACU2 (SEEP)
640	FW4211	arrowleaf groundsel	SETR
640	FW4212	common horsetail	EQAR
640	FW4213	maidenhair fern	ADPE
640	FW4214	arrowleaf groundsel-purple monkeyflower	SETR-MILE2
640	FW51	False hellebore	VERAT
640	FW5121	False hellebore	VERAT
640	FW6111	buckbean	METR3
640	FW6112	American speedwell	VEAM2
640	FW6113	brook saxifrage	SAOD2
640	FW7111	Pacific onion	ALMAG
640	FX4111	Wallowa lewisia (rim)	LECOW2 (RIM)

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
640	GB1211	sand dropseed (terrace)	SPCR (TERRACE)
640	GB1911	bluebunch wheatgrass-sand dropseed-red threawn	AGSP-SPCR-ARLO3
640	GB41	bluebunch wheatgrass-Sandberg's bluegrass	AGSP-POSA12
640	GB4111	bluebunch wheatgrass-Wyeth's buckwheat	AGSP-ERHE2
640	GB4112	bluebunch wheatgrass-Sandberg's bluegrass-narrowleaf skullcap	AGSP-POSA12-SCAN3
640	GB4113	bluebunch wheatgrass-Sandberg's bluegrass (basalt)	AGSP-POSA12 (BASALT)
640	GB4114	bluebunch wheatgrass-Sandberg's bluegrass-Cusick's milkvetch	AGSP-POSA12-ASCU5
640	GB4115	bluebunch wheatgrass-Sandberg's bluegrass-shaggy fleabane	AGSP-POSA12-ERPU2
640	GB4116	bluebunch wheatgrass-Sandberg's bluegrass (granite)	AGSP-POSA12 (GRANITE)
640	GB4117	bluebunch wheatgrass-Sandberg's bluegrass-Snake River phlox	AGSP-POSA12-PHCO10
640	GB4118	bluebunch wheatgrass-Sandberg's bluegrass-pricklypear	AGSP-POSA12-OPPO
640	GB4119	bluebunch wheatgrass-Sandberg's bluegrass-lupine	AGSP-POSA12-LUPIN
640	GB4121	bluebunch wheatgrass-Sandberg's bluegrass	AGSP-POSA12
640	GB4123	bluebunch wheatgrass-Sandberg's bluegrass-arrowleaf balsamroot	AGSP-POSA12-BASA3
640	GB4124	bluebunch wheatgrass-Sandberg's bluegrass-creamy buckwheat	AGSP-POSA12-ERHE2
640	GB4125	bluebunch wheatgrass-Sandberg's bluegrass-Blue Mountain milkvetch	AGSP-POSA12-ASRE5
640	GB4126	bluebunch wheatgrass-Sandberg's bluegrass-bighead clover	AGSP-POSA12-TRMA3
640	GB4127	bluebunch wheatgrass-Sandberg's bluegrass-spreading dogbane	AGSP-POSA12-APAN2
640	GB4131	bluebunch wheatgrass-mountain brome	AGSP-BRCA5
640	GB4132	bluebunch wheatgrass-sulfur-flower buckwheat	AGSP-ERUM
640	GB4133	bluebunch wheatgrass-turpentine cymopterus	AGSP-CYTEF
640	GB4411	bulbous bluegrass-cluster tarweed	POBU-MAGL2
640	GB4911	bluebunch wheatgrass-Sandberg's bluegrass-onespike oatgrass	AGSP-POSA12-DAUN
640	GB4915	creeping Oregon-grape/bluebunch wheatgrass-spreading dogbane	BERE/AGSP-APAN2
640	GB5011	oniongrass-western needlegrass	MEBU-STOC2
640	GB5121	common snowberry/Idaho fescue-bluebunch wheatgrass-Lupine	SYAL/FEID-AGSP-LUSE4
640	GB59	Idaho fescue-bluebunch wheatgrass	FEID-AGSP
640	GB5911	Idaho fescue-prairie junegrass (ridge)	FEID-KOCR (RIDGE)
640	GB5912	Idaho fescue-prairie junegrass (mound)	FEID-KOCR (MOUND)
640	GB5913	Idaho fescue-prairie junegrass (high elevation)	FEID-KOCR (HIGH)
640	GB5914	Idaho fescue-prairie junegrass (low elevation)	FEID-KOCR (LOW)
640	GB5915	Idaho fescue-bluebunch wheatgrass (ridge)	FEID-AGSP (RIDGE)
640	GB5916	Idaho fescue-bluebunch wheatgrass-lupine	FEID-AGSP-LUPIN
640	GB5917	Idaho fescue-bluebunch wheatgrass-arrowleaf balsamroot	FEID-AGSP-BASA3
640	GB5918	Idaho fescue-bluebunch wheatgrass-Snake River phlox	FEID-AGSP-PHCO10
640	GB5919	common snowberry/Idaho fescue-prairie junegrass	SYAL/FEID-KOCR

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
640	GB5920	Idaho fescue-timber oatgrass-Liddon's sedge	FEID-DAIN-CAPE7
640	GB5921	Idaho fescue-Hood's sedge	FEID-CAH05
640	GB5922	Idaho fescue-elk sedge	FEID-CAGE2
640	GB5923	Idaho fescue-red avens	FEID-GETR
640	GB5924	Idaho fescue-Wallowa penstemon	FEID-PESP2
640	GB5925	Idaho fescue-bluebunch wheatgrass-cymopterus	FEID-AGSP-CYTEF
640	GB5926	Idaho fescue-bluebunch wheatgrass-Cusick's fraseria	FEID-AGSP-FRALC2
640	GB5927	Idaho fescue-bluebunch wheatgrass-Wheeler's bluegrass	FEID-AGSP-PONEW
640	GB5931	Idaho fescue-bluebunch wheatgrass-phlox	FEID-AGSP-PHLOX
640	GB5932	Idaho Fescue-onespike oatgrass	FEID-DAUN
640	GB6011	rough fescue-Idaho fescue	FESC-FEID
640	GB7111	basin wildrye	ELCI2
640	GB9111	Sandberg's bluegrass-onespike oatgrass	POSA12-DAUN
640	GB9112	Sandberg's bluegrass-lanceleaf stonecrop	POSA12-SELA
640	GB9114	onespike oatgrass-slenderfruit lomatium	DAUN-LOLE2
640	GM4111	bluejoint reedgrass	CACA4
640	GS10	western needlegrass	STOC2
640	GS11	green fescue	FEVI
640	GS1111	green fescue-Hood's sedge	FEVI-CAH05
640	GS1112	green fescue-spurred lupine	FEVI-LULA3
640	GS1113	green fescue-Parry's rush	FEVI-JUPA
640	GS1114	green fescue-Ross' sedge	FEVI-CAR05
640	GS1115	green fescue-penstemon	FEVI-PENST
640	GS1116	green fescue-western needlegrass	FEVI-STOC2
640	GS1117	green fescue-Canby's lovage	FEVI-LICA2
640	GS1118	green fescue-bearded wheatgrass	FEVI-AGCA2
640	GS1119	green fescue-Holm's Rocky Mountain sedge	FEVI-CASC12
640	GS12	Idaho fescue (alpine)	FEID (ALPINE)
640	GS39	Geyer's sedge (upland)	CAGE2
640	GS3911	elk sedge (alpine)	CAGE2 (ALPINE)
640	GS3912	Hood's sedge	CAH05
640	GS3913	elk sedge-Parry's rush	CAGE2-JUPA
640	GS3914	elk sedge-pinegrass	CAGE2-CARU
640	GS3915	elk sedge-Cusick's bluegrass	CAGE2-POCU3
640	GS3916	elk sedge-desert phlox	CAGE2-PHAU3
640	GS3917	elk sedge-western needlegrass	CAGE2-STOC2
640	GS4011	alpine sedges-western needlegrass	CAREX-STOC2
640	GS4012	Hood's sedge-mountain brome (meadow)	CAH05-BRCA5 (MEADOW)
640	GS4013	Parry's rush-pale agoseris	JUPA-AGGL
640	GS50	western needlegrass-squirreltail (alpine)	STOC2-SIHY (ALPINE)
640	GS60	fellfield	FELLFIELD
640	GS61	Hood's sedge-mountain brome	CAH05-BRCA5
640	GS62	Hood's sedge-elk sedge	CAH05-CAGE2
640	GS63	Hood's sedge-sticky cinquefoil	CAH05-POGL9
640	GS64	Hood's sedge	CAH05
640	GS70	turf	TURF
640	HAF211	red alder/sweet coltsfoot	ALRU2/PEFRP

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
640	HAF226	red alder (alluvial bar)	ALRU2
640	HAF227	red alder/common ladyfern	ALRU2/ATFI
640	HAS211	red alder/Pacific ninebark	ALRU2/PHCA11
640	HAS312	red alder/common snowberry	ALRU2/SYAL
640	HAS511	red alder/redosier dogwood	ALRU2/COSES
640	HCS112	black cottonwood/Pacific willow	POTR15/SALA5
640	HCS113	black cottonwood/mountain alder-red osier dogwood	POTR15/ALIN2-COST4
640	HCS114	black cottonwood/Rocky Mountain maple	POTR15/ACGL
640	HCS311	black cottonwood/common snowberry	POTR15/SYAL
640	HCS312	black cottonwood/common snowberry	POTR15/SYAL
640	HD01	Rocky Mountain maple	ACGL
640	HQG112	quaking aspen/elk sedge	POTR5/CAGE2
640	HQM122	quaking aspen/Kentucky bluegrass	POTR5/POPR
640	HQM123	quaking aspen/bluejoint reedgrass	POTR5/CACA4
640	HQM211	quaking aspen/woolly sedge	POTR5/CALA30
640	HQM212	quaking aspen/water sedge	POTR5/CAAQ
640	HQM511	quaking aspen/mesic forb	POTR5/2FORB
640	HQS221	quaking aspen/common snowberry	POTR5/SYAL
640	HQS222	quaking aspen/thinleaf alder/redosier dogwood	POTR5/ALINT/COSES
640	HQS223	quaking aspen/thinleaf alder-common snowberry	POTR5/ALINT-SYAL
640	MD2111	meadow foxtail	ALPR3
640	MD3111	Kentucky bluegrass (dry meadow)	POPR (DRY MEADOW)
640	MD3112	Kentucky bluegrass (degenerated bench)	POPR (DEGEN BENCH)
640	MD4111	seashore bentgrass	AGPA8
640	MM1912	tufted hairgrass	DECE
640	MM2911	woolly sedge	CALA30
640	MM2912	Nebraska sedge	CANE2
640	MM2913	widefruit sedge	CAEU2
640	MM2914	aquatic sedge	CAAQ
640	MM2915	shortbeaked sedge	CASI2
640	MM2916	woodrush sedge	CALU7
640	MM2917	bladder sedge	CAUT
640	MM2918	Cusick's sedge	CACU5
640	MM2919	lakeshore sedge	CALE8
640	MM2920	slender sedge	CALA11
640	MM2921	bigleaf sedge	CAAM10
640	MM2922	torrent sedge	CANU5
640	MM2924	small-fruit bulrush	SCMI2
640	MM2925	tall mannagrass	GLEL
640	MM2926	bog alkaligrass	PUCCI
640	MM2927	Sierra hare sedge	CALE9
640	MM2928	mud sedge	CALI7
640	MM2929	smallwing sedge	CAMI7
640	MM2930	brown sedge	CASU6
640	MM2932	Sheldon's sedge	CASH

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
640	MM2933	Jones' sedge	CAJO
640	MS2111	black alpine sedge	CANI2
640	MS2113	northern singlespike sedge-brook saxifrage (spring)	CASC10-SAAR13
640	MS3111	Holm's Sedge	CASC12
640	MS3112	star sedge	CAECE
640	MS3113	bluejoint	CACA4
640	MS4111	beautiful spikerush	ELBE
640	MT10	Rocky Mountain pond-lily	NUPO2
640	MT8121	broadleaf cattail	TYLA
640	MW1923	inflated sedge	CAVE6
640	MW1926	beaked sedge	CARO6
640	MW2912	clustered field sedge	CAPR5
640	MW2913	northern bog sedge	CAGY2
640	MW2927	drooping woodreed	CILA2
640	MW3912	Baltic rush	JUBA
640	MW4911	few-flowered spikerush	ELPA6
640	MW4912	creeping spikerush	ELPA3
640	N	Ice fields	
640	NTS111	syringa-bordered talus strips	PHLE4 (TALUS)
640	SD01	white sagebrush	ARLU
640	SD1911	low sagebrush/Idaho fescue-bluebunch wheatgrass	ARAR8/FEID-AGSP
640	SD1924	low sagebrush/bluebunch wheatgrass	ARAR8/AGSP
640	SD2401	threetip sagebrush/Sandberg's bluegrass-onespike oatgrass	ARTR4/POSA12-DAUN
640	SD2911	mountain big sagebrush/Idaho fescue-bluebunch wheatgrass	ARTRV/FEID-AGSP
640	SD2915	mountain big sagebrush/elk sedge (montane)	ARTRV/CAGE2 (MONTANE)
640	SD2916	mountain big sagebrush-bitterbrush/Idaho fescue	ARTRV-PUTR2/FEID
640	SD2917	mountain big sagebrush-mountain snowberry/Mountain brome	ARTRV-SYOR2/BRCA5
640	SD2918	mountain big sagebrush/bluebunch wheatgrass-Sandberg's bluegrass	ARTRV/AGSP-POSA12
640	SD2919	mountain big sagebrush-mountain snowberry	ARTRV-SYOR2
640	SD2920	mountain big sagebrush/western needlegrass	ARTRV/STOC2
640	SD2929	mountain big sagebrush/Idaho fescue-prairie junegrass	ARTRV/FEID-KOCR
640	SD30	squaw apple-mountain snowberry	PERA4-SYOR2
640	SD3010	mountain big sagebrush-squaw apple	ARTRV-PERA4
640	SD3011	mountain big sagebrush/giant wildrye	ARTRV/ELCI2
640	SD3111	bitterbrush/Idaho fescue-bluebunch wheatgrass	PUTR2/FEID-AGSP
640	SD3112	bitterbrush/bluebunch wheatgrass	PUTR2/AGSP
640	SD3124	bitterbrush-mountain big sagebrush/Idaho fescue-bluebunch wheatgrass	PUTR2-ARTRV/FEID-AGSP
640	SD3125	bitterbrush-mountain big sagebrush/Idaho fescue	PUTR2-ARTRV/FEID
640	SD3126	bitterbrush/Douglas' buckwheat	PUTR2/ERDO
640	SD40	mountain mahogany/elk sedge	CELE3/CAGE2
640	SD4111	mountain mahogany/Idaho fescue-bluebunch wheatgrass	CELE3/FEID-AGSP
640	SD4112	mountain mahogany/bluebunch wheatgrass	CELE3/AGSP
640	SD4113	mountain mahogany/elk sedge	CELE3/CAGE2
640	SD4114	mountain mahogany/Wheeler's bluegrass	CELE3/PONEW

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
640	SD4115	mountain mahogany-bitterbrush/bluebunch wheatgrass	CELE3-PUTR2/AGSP
640	SD42	curl-leaf mountain mahogany/Geyer's sedge	CELE3/CAGE2
640	SD49	mountain mahogany	CELE3
640	SD5611	netleaf hackberry/bluebunch wheatgrass	CERE2/AGSP
640	SD5612	netleaf hackberry/brome	CERE2/BROMU
640	SD6121	smooth sumac/bluebunch wheatgrass	RHGL/AGSP
640	SD65	spiny greenbush/bluebunch wheatgrass	GLNE/AGSP
640	SD9111	stiff sagebrush/Sandberg's bluegrass (scabland)	ARRI2/POSA12 (SCAB)
640	SD9141	stiff sagebrush/Gairdner's penstemon	ARRI2/PEGA
640	SD9221	low sagebrush/Sandberg's bluegrass	ARAR8/POSA12
640	SD9322	buckwheat/Oregon bladderpod	ERIOG-PHOR2
640	SM1111	mallow ninebark-common snowberry	PHMA5-SYAL
640	SM19	ninebark-common snowberry	PHMA5-SYAL
640	SM1901	Pacific ninebark	PHCA11
640	SM20	alder snow slides	ALSI3
640	SM3001	Lewis' mock orange/mesic forb	PHLE4/MESIC FORB
640	SM31	common snowberry	SYAL
640	SM3110	common snowberry (floodplain)	SYAL (FLOODPLAIN)
640	SM3111	common snowberry-rose	SYAL-ROSA5
640	SM32	mountain snowberry	SYOR2
640	SM33	snowbrush ceanothus	CEVE
640	SM34	bitter cherry	PREM
640	SM41	water birch/reed canarygrass	BEOC2/PHAR3
640	SM5001	Barton's raspberry	RUBA
640	SM5002	Himalayan blackberry	RUDI2
640	SM5912	thimbleberry	RUPA
640	SS1912	Pink mountainheath mounds	PHEM (MOUNDS)
640	SS4911	mountain big sagebrush/elk sedge	ARTRV/CAGE2
640	SS4914	mountain big sagebrush/California brome	ARTRV/BRCA5
640	SS4915	mountain big sagebrush/needle and thread	ARTRV/HECO26
640	SS4916	mountain big sagebrush/Hood's sedge	ARTRV/CAHO5
640	SS4917	mountain big sagebrush/linanthastrum	ARTRV/LINU4
640	SS4918	mountain big sagebrush/golden buckwheat-phlox	ARTRV/ERFL4- PHLOX
640	SS4919	shrubby cinquefoil/Idaho fescue	POFR4/FEID
640	SS60	shrubby cinquefoil	POFR4
640	SS6001	shrubby cinquefoil-bog birch	POFR4-BEGL
640	SW0101	Labrador tea/Holm's Rocky Mountain sedge	LEGL/CASC12
640	SW0102	twinberry honeysuckle/ladyfern	LOIN5/ATFI
640	SW1111	willow/Kentucky bluegrass	SALIX/POPR
640	SW1112	willow/woolly sedge	SALIX/CALA30
640	SW1114	willow/aquatic sedge	SALIX/CAAQ
640	SW1117	coyote willow	SAEX
640	SW1121	undergreen willow/Holm's Rocky Mountain sedge	SACO2/CASC12
640	SW1123	willow/bladder sedge	SALIX/CAUT
640	SW1124	willow/bluejoint	SALIX/CACA4
640	SW1125	willow/mesic forb	SALIX/2FORB
640	SW1126	strapleaf willow	SALI

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
640	SW1127	undergreen willow/Northwest Territory sedge	SACO2/CAUT
640	SW1128	undergreen willow/Clustered field sedge	SACO2/CAPR5
640	SW1129	Eastwood willow-Tweedy willow/aquatic sedge	SAEA-SATW/CAAQ
640	SW1130	Scouler willow/blue wildrye	SASC/ELGL
640	SW1133	arctic willow	SAAR27
640	SW1134	Farr's willow/Pacific onion	SAFA/ALVA
640	SW1135	Lemmon's willow/mesic forb	SALE/MESIC FORB
640	SW1136	Sitka willow/common horsetail	SASI2/EQAR
640	SW1137	Drummond's willow/arrowleaf groundsel	SADR/SETR
640	SW1138	Booth's willow/Holm's Rocky Mountain sedge	SABO2/CASC12
640	SW1139	Booth's willow/inflated sedge	SABO2/CAVE6
640	SW2101	white alder/blackberry	ALRH2/RUBUS
640	SW2102	white alder/mesic shrub	ALRH2/MESIC SHRUB
640	SW2111	Sitka alder/ladyfern	ALSI3/ATFI
640	SW2112	Sitka alder/drooping woodreed	ALSI3/CILA2
640	SW2113	Sitka alder/mesic forb	ALSI3/MESIC FORB
640	SW2114	mountain alder/bigleaf sedge	ALIN2/CAAM10
640	SW2115	mountain alder/bladder sedge	ALIN2/CAUT
640	SW2116	mountain alder/ladyfern	ALIN2/ATFI
640	SW2117	mountain alder/common horsetail	ALIN2/EQAR
640	SW2118	mountain alder/Dewey's sedge	ALIN2/CADE9
640	SW2120	mountain alder/Kentucky bluegrass	ALIN2/POPR
640	SW2121	mountain alder/bluejoint reedgrass	ALIN2/CACA4
640	SW2122	mountain alder/smallfruit bulrush	ALIN2/SCMI2
640	SW2123	mountain alder/woolly sedge	ALIN2/CALA30
640	SW2124	thinleaf alder/common cowparsnip	ALINT/HEMA80
640	SW2125	thinleaf alder/western oakfern	ALINT/GYDR
640	SW2126	mountain alder/aquatic sedge	ALIN2/CAAQ
640	SW2127	mountain alder/densely tufted sedge	ALIN2/CALEL
640	SW2128	mountain alder/woodrush sedge	ALIN2/CALU7
640	SW2211	mountain alder-common snowberry	ALIN2-SYAL
640	SW2215	mountain alder/tall mannagrass	ALIN2/GLEL
640	SW2216	mountain alder-red osier dogwood/mesic forb	ALIN2-COST4/MESIC FORB
640	SW2217	mountain alder-currants/mesic forb	ALIN2-RIBES/MESIC FORB
640	SW3111	black hawthorn/mesic forb	CRDO2/MESIC FORB
640	SW3112	water birch/mesic forb	BEOC2/2FORB
640	SW3113	water birch/sedge (wet)	BEOC2/CAREX
640	SW3114	Saskatoon serviceberry	AMAL2
640	SW3124	cow parsnip/blue wildrye	HELA4-ELGL
640	SW4133	red osier dogwood/ladyfern	COST4/ATFI
640	SW5111	currants/drooping woodreed	RIBES/CILA2
640	SW5112	red osier dogwood	COST4
640	SW5113	shrubby cinquefoil/Tufted hairgrass	POFR4/DECE
640	SW5114	shrubby cinquefoil/Kentucky bluegrass	POFR4/POPR
640	SW5115	currant/mesic forb	RIBES/2FORB
640	SW5116	currant/fowl mannagrass	RIBES/GLST

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
640	SW5117	alderleaf buckthorn/forb (mesic)	RHAL/2FORB
640	SW5118	redosier dogwood/brook saxifrage	COSE16/SAOD2
640	SW6111	silver sagebrush/Tufted hairgrass	ARCA13/DECE
640	SW6112	silver sagebrush/Kentucky bluegrass	ARCA13/POPR
640	SW6113	mountain big sagebrush/Cusick's bluegrass	ARTRV/POCU3
640	SW6114	silver sagebrush/Cusick's bluegrass	ARCA13/POCU3
640	SW901	alpine laurel/black alpine sedge	KAMI/CANI2
640	WL	lakes and ponds	
640	WL0108	narrowleaf bur-reed	SPAN2
641	CCS521	western red cedar/Cascade barberry/western swordfern	THPL/MANE2/POMU
641	CDC321	Douglas-fir-incense cedar	PSME-CADE27
641	CDC322	Douglas-fir-incense cedar-Jeffery pine	PSME-CADE27-PIJE
641	CDC323	Douglas-fir-incense cedar/hollyleaved barberry	PSME-CADE27/MAAQ2
641	CDC421	Douglas-fir-white fir	PSME-ABCO
641	CDC422	Douglas-fir-white fir/creeping snowberry	PSME-ABCO/SYMO
641	CDC521	Douglas-fir-ponderosa pine/poison oak	PSME-PIPO/RHDI6
641	CDH321	Douglas-fir/California black oak/Pacific poison oak	PSME/QUKE/TODI
641	CDH521	Douglas-fir-golden chinquapin/dwarf Oregon grape	PSME-CACH6/BENE2
641	CDH522	Douglas-fir-canyon live oak-tanoak	PSME-QUCH2-LIDE3
641	CDH523	Douglas-fir-canyon live oak/dwarf Oregon grape	PSME-QUCH2/BENE2
641	CDH524	Douglas-fir-canyon live oak/poison oak	PSME-QUCH2/RHDI6
641	CDS121	Douglas-fir/dry shrub	PSME/DRY SHRUB
641	CDS122	Douglas-fir/huckleberry oak	PSME/QUVA
641	CDS123	Douglas-fir/huckleberry oak-pinemat manzanita/common beargrass	PSME/QUVA-ARNE/XETE
641	CDS214	Douglas-fir/vine maple-dwarf Oregon grape	PSME/ACCI-BENE2
641	CDS215	Douglas-fir/oceanspray/common whipplea	PSME/HODI/WHMO
641	CDS521	Douglas-fir/dwarf Oregon grape/western sword-fern	PSME/BENE2/POMU
641	CDS522	Douglas-fir/salal-dwarf Oregon grape	PSME/GASH-BENE2
641	CDS523	Douglas-fir/salal-Pacific rhododendron	PSME/GASH-RHMA3
641	CDS524	Douglas-fir/salmonberry/western swordfern	PSME/RUSP/POMU
641	CDS663	Douglas-fir/pinemat manzanita-SWO	PSME/ARNE-SWO
641	CFC121	Pacific silver fir-mountain hemlock/thinleaf huckleberry/sweet after death	ABAM-TSME/VAME/ACTR
641	CFC221	western hemlock-Douglas-fir/salal-SWO	TSHE-PSME/GASH-SWO
641	CFF221	Pacific silver fir/dwarf rose/sweet after death	ABAM/ROGY/ACTR
641	CHC221	western hemlock-Douglas-fir/salal	TSHE-PSME/GASH
641	CHC321	western hemlock-white fir/Cascade barberry	TSHE-ABCO/MANE2
641	CHC322	western hemlock-white fir/vine maple-Cascade barberry	TSHE-ABCO/ACCI-MANE2
641	CHC421	western hemlock-western red cedar/Pacific rhododendron	TSHE-THPL/RHMA3
641	CHC521	western hemlock-Pacific silver fir	TSHE-ABAM
641	CHC621	western hemlock-incense cedar/salal	TSHE-CADE27/GASH
641	CHF120	western hemlock/Western sword-fern-SWO	TSHE/POMU-SWO
641	CHH121	western hemlock-tanoak-California laurel	TSHE-LIDE3-UMCA
641	CHH122	western hemlock-tanoak/Pacific rhododendron	TSHE-LIDE3/RHMA3

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
641	CHH123	western hemlock-tanoak/evergreen huckleberry-Pacific rhododendron	TSHE-LIDE3/VAOV2-RHMA3
641	CHH321	western hemlock-giant chinquapin/salal-Pacific rhododendron	TSHE-CHCHC4/GASH-RHMA3
641	CHS117	western hemlock/salal-dwarf Oregon grape-SWO	TSHE/GASH-BENE2-SWO
641	CHS118	western hemlock/salal-Pacific rhododendron-SWO	TSHE/GASH-RHMA3-SWO
641	CHS119	western hemlock/salal/western swordfern	TSHE/GASH/POMU
641	CHS219	western hemlock/vine maple-salal-SWO	TSHE/ACCI-GASH-SWO
641	CHS220	western hemlock/vine maple-Pacific rhododendron	TSHE/ACCI-RHMA3
641	CHS319	western hemlock/Pacific rhododendron-salal	TSHE/RHMA3-GASH
641	CHS320	western hemlock/Pacific rhododendron-dwarf Oregon grape-SWO	TSHE/RHMA3-BENE2-SWO
641	CHS420	western hemlock/salmonberry	TSHE/RUSP
641	CHS609	western hemlock/evergreen huckleberry-western sword-fern	TSHE/VAOV2/POMU
641	CHS821	western hemlock/deer oak-salal-Pacific rhododendron	TSHE/QUSA2-GASH-RHMA3
641	CLC521	lodgepole pine-mountain hemlock (depauperate)	PICO-TSME
641	CLC721	lodgepole pine-white fir-Douglas-fir	PICO-ABCO-PSME
641	CLS531	lodgepole pine/thin-leaved huckleberry-grouseberry	PICO/VAME-VASC
641	CMC221	mountain hemlock-Shasta red fir/roughfruit berry/sidebells wintergreen	TSME-ABSH/RULA2/ORSE
641	CMC222	mountain hemlock-Shasta red fir/thinleaf huckleberry/pipsissewa	TSME-ABSH/VAME/CHUM
641	CMF021	mountain hemlock/forbs	TSME/2FORB
641	CMS116	mountain hemlock/grouse whortleberry/pipsissewa	TSME/VASC/CHUM
641	CMS141	mountain hemlock/pinemat manzanita/pipsissewa	TSME/ARNE/CHUM
641	CMS219	mountain hemlock/thinleaf huckleberry/sidebells wintergreen	TSME/VAME/ORSE
641	CMS621	mountain hemlock/Pacific rhododendron/common beargrass	TSME/RHMA3/XETE
641	CPC121	Jeffrey pine-incense cedar-Douglas-fir	PIJE-CADE27-PSME
641	CPC122	Jeffrey pine-incense cedar/whiteleaf Manzanita	PIJE-CADE27/ARV14
641	CPC123	Jeffrey pine-incense cedar/huckleberry oak	PIJE-CADE27/QUVA
641	CPC421	Jeffrey pine/hoary manzanita/Idaho fescue	PIJE/ARCA5/FEID
641	CPC422	Jeffrey pine/buckbrush/Idaho fescue	PIJE/CECU/FEID
641	CPC423	Jeffrey pine/Idaho fescue	PIJE/FEID
641	CPC424	Jeffrey pine/huckleberry oak-pinemat manzanita	PIJE/QUVA-ARNE
641	CPC425	Jeffrey pine/huckleberry oak-pinemat manzanita/dwarf silktassel	PIJE/QUVA-ARNE/GABU2
641	CPC621	ponderosa pine-Douglas-fir	PIPO-PSME
641	CPH221	ponderosa pine-California black oak	PIPO-QUKE
641	CQC121	western white pine-Jeffrey pine/huckleberry oak/common beargrass	PIMO3-PIJE/QUVA/XETE
641	CQF021	western white pine/common beargrass	PIMO3/XETE
641	CQH121	western white pine-tanoak/huckleberry oak/common beargrass	PIMO3-LIDE3/QUVA/XETE
641	CRC321	Shasta red fir-white fir/Sadler oak/common prince's-pine	ABMAS-ABCO/QUSA2/CHUM

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
641	CRC322	Shasta red fir-white fir/Sadler oak/one-sided pyrola	ABMAS- ABCO/QUSA2/PYSE
641	CRC323	Shasta red fir-white fir/baldhip rose/one-sided pyrola	ABMAS- ABCO/ROGY/PYSE
641	CRC324	Shasta red fir-white fir/creeping snowberry/pipsissewa	ABSH- ABCO/SYMO/CHUM
641	CRC421	Shasta red fir/thin-leaved huckleberry/common prince's-pine	ABMAS/VAME/ CHUM
641	CRC521	Shasta red fir-mountain hemlock/pinemat manzanita/pipsissewa	ABSH- TSME/ARNE/CHUM
641	CRF021	Shasta red fir/sweetcicely	ABSH/OSBE
641	CRS421	Shasta red fir/thinleaf huckleberry/pipsissewa	ABSH/VAME/CHUM
641	CRS521	Shasta red fir/Oregon boxleaf/sidebells wintergreen	ABSH/PAMY/ORSE
641	CSC121	Sitka spruce-white fir/salmonberry	PISI-ABCO/RUSP
641	CSS323	Sitka spruce/salal-California huckleberry	PISI/GASH-VAOV2
641	CTC121	Port Orford cedar-white fir/Cascade barberry	CHLA-ABCO/MANE2
641	CTC221	Port Orford cedar-western hemlock/Sierra laurel	CHLA-TSHE/LEDA
641	CTC222	Port Orford cedar-western hemlock/western swordfern	CHLA-TSHE/POMU
641	CTH121	Port Orford cedar-tanoak/salal	CHLA-LIDE3/GASH
641	CTS121	Port-Orford cedar/evergreen huckleberry/western sword-fern	CHLA/VAOV2/ POMUM
641	CTS221	Port-Orford cedar/Pacific madrone-salal	CHLA/RHMA3-GASH
641	CTS321	Port Orford cedar/pink honeysuckle/fescue	CHLA/LOHI2/FESTU
641	CTS521	Port Orford cedar/huckleberry oak/common beargrass	CHLA/QUVA/XETE
641	CWC221	white fir-Douglas-fir/baldhip rose	ABCO-PSME/ROGY
641	CWC521	white fir-Brewer spruce/common prince's-pine-whitevein pyrola	ABCO-PIBR/CHUM- PYPI2
641	CWC621	white fir-incense cedar/western starflower	ABCO-CADE27/ TRLA6
641	CWC622	white fir-western hemlock/Cascade barberry/longtube twinflower	ABCO-TSHE/ MANE2/LIBOL2
641	CWC721	white fir-Shasta red fir/vanillaleaf	ABCO-ABMAS/ACTR
641	CWC722	white fir-Shasta red fir/common prince's-pine-threelaf anemone	ABCO-ABMAS/ CHUM-ANDE3
641	CWC723	white fir-Shasta red fir/Sadler oak	ABCO- ABMAS/QUSA2
641	CWF541	white fir/common beargrass	ABCO/XETE
641	CWH321	white fir-tanoak/common prince's-pine	ABCO-LIDE3/CHUM
641	CWS227	white fir/dwarf Oregon grape	ABCO/BENE2
641	CWS228	white fir/dwarf Oregon grape/vanillaleaf	ABCO/BENE2/ACTR
641	CWS229	white fir/Cascade barberry/longtube twinflower	ABCO/MANE2/LIBO L2
641	CWS341	white fir/pinemat manzanita	ABCO/ARNE
641	CWS342	white fir/creeping snowberry	ABCO/SYMO
641	CWS523	white fir/vine maple/Oregon oxalis	ABCO/ACCI/OXOR
641	CWS524	white fir/salal-Cascade barberry	ABCO/GASH-MANE2
641	CWS525	white fir/Pacific rhododendron-Cascade barberry	ABCO/RHMA3- MANE2
641	CWS526	white fir/Pacific rhododendron-deer oak	ABCO/RHMA3- QUSA2

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
641	CWS621	white fir/huckleberry oak	ABCO/QUVA
641	HOC121	Oregon white oak-Douglas-fir/poison oak	QUGA4-PSME/RHDI6
641	HOG321	Oregon white oak/hedgehog dogtail	QUGA4/CYEC
641	HTC221	tanoak-western hemlock/evergreen huckleberry-poison oak	LIDE3-TSHE/VAOV2-RHDI6
641	HTC222	tanoak-western hemlock/evergreen huckleberry/western sword-fern	LIDE3-TSHE/VAOV2/POMU
641	HTC223	tanoak-western hemlock/evergreen huckleberry/western sword-fern-RIP	LIDE3-TSHE/VAOV2/POMU-RIP
641	HTC321	tanoak-Port Orford cedar/salal	LIDE3-CHLA/GASH
641	HTC421	tanoak-white fir/dwarf Oregon grape	LIDE3-ABCO/BENE2
641	HTC521	tanoak-sugar pine/huckleberry oak/common beargrass	LIDE3-PIMO3/QUVA/XETE
641	HTC621	tanoak-Douglas-fir-canyon live oak/dwarf Oregon grape	LIDE3-PSME-QUCH2/BENE2
641	HTC622	tanoak-Douglas-fir-canyon live oak/poison oak	LIDE3-PSME-QUCH2/RHDI6
641	HTC623	tanoak-Douglas-fir/salal-dwarf Oregon grape	LIDE3-PSME/GASH-BENE2
641	HTC624	tanoak-Douglas-fir/salal-Pacific rhododendron	LIDE3-PSME/GASH-RHMA3
641	HTC625	tanoak-Douglas-fir/salal-huckleberry oak	LIDE3-PSME/GASH-VAOV2
641	HTC626	tanoak-Douglas-fir/Sadler oak-dwarf Oregon grape	LIDE3-PSME/QUSA2-BENE2
641	HTH321	tanoak-bigleaf maple-canyon live oak/western sword-fern	LIDE3-ACMA3-QUCH2/POMU
641	HTH421	tanoak-golden chinquapin-sugar pine	LIDE3-CACH6-PILA
641	HTH422	tanoak-golden chinquapin/salal-Sadler oak	LIDE3-CACH6/GASH-QUSA2
641	HTS121	tanoak-evergreen huckleberry-Pacific rhododendron-salal	LIDE3/VAOV2-RHMA3-GASH
641	HTS621	tanoak/manzanita/common beargrass	LIDE3/ARCTO3/XETE
642	CDS301	Douglas-fir/Western rhododendron-Evergreen huckleberry	PSME/RHMA3-VAOV2
642	CLC201	Shore pine-Douglas-fir/Wax myrtle-Evergreen huckleberry	PICOC-PSME/MYCA-VAOV2
642	CLC601	Shore pine-Sitka spruce/Evergreen huckleberry	PICOC-PISI/VAOV2
642	CLM101	Shore pine/Slough sedge seasonally flooded	PICOC/CAOB3
642	CLS301	Shore pine/Bearberry	PICOC/ARUV
642	CLS832	Shore pine/Scots broom/European beachgrass	PICOC/CYSC4/AMAR4
642	CSH401	Sitka spruce-Red alder/Slough sedge-Skunk cabbage saturated	PISI-ALRU/CAOB3-LYAM3
642	CSS101	Sitka spruce/Evergreen huckleberry	PISI/VAOV2
642	CSS322	Sitka spruce/Salal-Salmonberry	PISI/GASH-RUSP
642	CTS404	Port Orford cedar/Evergreen huckleberry	CHLA/VAOV2
642	GM2001	Red fescue	FERU2
642	GM2002	Red fescue-Bracken fern	FERU2-PTAQ

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
642	GM2003	red fescue-salt rush	FERU2-JULE
642	GM8001	Seashore bluegrass	POMA26
642	HAM101	Red alder/Salmonberry/slough sedge-skunk cabbage saturated	ALRU/RUSP/CAOB3-LYAM3
642	MMB801	Salt rush	JULE
642	MMB802	Sickle-leaved rush-Salt rush	JUFA-JULE
642	MT8101	Hardstem bulrush	SCACA
642	MW8101	Slough sedge seasonally flooded	CAOB3
642	MW8102	Slough sedge-Pacific silverweed	CAOB3-AREGE
642	MW8103	Inflated sedge	CAEX5
642	MW9102	Creeping spikerush-Nevada rush	ELPA3-JUNE
642	SW1101	Hooker willow/Slough sedge-Pacific silverweed	SAHO/CAOB3-AREGE
642	SW1102	Hooker willow-Crabapple/Slough sedge-Skunk cabbage saturated	SAHO-MAFU/CAOB3-LYAM3
642	SW4101	Bog blueberry/Tufted hairgrass	VAUL/DECEC
642	SW4102	Bog blueberry/Slough sedge	VAUL-CAOB3
642	SW4114	Douglas spiraea saturated	SPDO
642	SW8101	Tree lupine/European beachgrass	LUAR/AMAR4
642	WE0101	Three-square bulrush tidal	SCAM6
642	WE0102	Baltic rush-Pacific silverweed tidal	JUBA-AREGE
642	WE0104	Tufted hairgrass-Pacific silverweed tidal	DECEC-AREGE
642	WE0105	Lyngby sedge-Pacific silverweed tidal	CALY3-AREGE
642	WE0106	Creeping bentgrass-Pacific silverweed tidal	AGSTS-AREGE
642	WE0107	Saltgrass-Pacific silverweed tidal	DISP-AREGE
642	WL0101	Pond lily	NULUP
642	WL0102	Floating water-pennywort	HYRA
642	WL0103	Floating-leaved pondweed	PONA4
642	WL0104	Simplestem bur-reed	SPAN2
642	WL0105	Parrot-feather	MYAQ2
642	WL0106	South American waterweed	EGDE
642	WL0107	Common bladderwort	UTMA
642	WL9001	Waterpepper-Water purslane	POHY2-LUPA
642	WL9002	Water smartweed	POAM8
642	WL9003	Threeway sedge	DUAR3
642	WL9004	Knotgrass	PADI6
647	CAF312	mountain hemlock-subalpine fir/Cascades aster	TSME-ABLA/EULE14
647	CAG313	mountain hemlock-whitebark pine/Hitchcock's smooth woodrush	TSME-PIAL/LUGLH
647	CAG314	mountain hemlock/Hitchcock's smooth woodrush	TSME/LUGLH
647	CAS212	mountain hemlock/pink mountainheath-Cascade bilberry	TSME/PHEM-VADE
647	CAS412	mountain hemlock-subalpine fir/common juniper	TSME-ABLA/JUCO6
647	CDC710	Douglas-fir/Cascade barberry	PSME/MANE2
647	CDC715	Douglas-fir-western hemlock/Pacific rhododendron	PSME-TSHE/RHMA3
647	CDS124	Douglas-fir/Pacific poison oak	PSME/TODI
647	CDS212	Douglas-fir/oceanspray/grass	PSME/HODI/grass
647	CDS213	Douglas-fir/oceanspray-common whipplea	PSME/HODI-WHMO
647	CDS216	Douglas-fir/oceanspray-Cascade barberry	PSME/HODI-MANE2
647	CDS217	Douglas-fir/oceanspray-snowberry	PSME/HODI-SYMPH

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
647	CDS312	Douglas-fir/beaked hazelnut-creeping snowberry/western swordfern	PSME/COCO6-SYMO/POMU
647	CDS512	Douglas-fir/Cascade barberry-salal	PSME/MANE2-GASH
647	CFC251	Pacific silver fir-western hemlock/Pacific rhododendron-salal	ABAM-TSHE/RHMA3-GASH
647	CFC311	Pacific silver fir-grand fir/starry false lily of the valley	ABAM-ABGR/MAST4
647	CFF152	Pacific silver fir/threeleaf foamflower	ABAM/TITR
647	CFF153	Pacific silver fir/redwood-sorrel	ABAM/OXOR
647	CFS151	Pacific silver fir/Cascade barberry	ABAM/MANE2
647	CFS251	Pacific silver fir/thinleaf huckleberry/common beargrass	ABAM/VAME/XETE
647	CFS253	Pacific silver fir/Alaska blueberry/bunchberry dogwood	ABAM/VAAL3/COCA13
647	CFS254	Pacific silver fir/rusty menziesia	ABAM/MEFE
647	CFS255	Pacific silver fir/Alaska blueberry-salal	ABAM/VAAL3-GASH
647	CFS256	Pacific silver fir/thinleaf huckleberry/bride's bonnet	ABAM/VAME/CLUN2
647	CFS351	Pacific silver fir/devilsclub	ABAM/OPHO
647	CFS551	Pacific silver fir/Cascade azalea/common beargrass	ABAM/RHAL2/XETE
647	CFS552	Pacific silver fir/Cascade azalea/bride's bonnet	ABAM/RHAL2/CLUN2
647	CFS651	Pacific silver fir/vine maple/threeleaf foamflower	ABAM/ACCI/TITR
647	CFS652	Pacific silver fir/Pacific rhododendron/Cascade barberry	ABAM/RHMA3/MANE2
647	CFS653	Pacific silver fir/Pacific rhododendron/common beargrass	ABAM/RHMA3/XETE
647	CFS654	Pacific silver fir/Pacific rhododendron-Alaska blueberry/bunchberry dogwood	ABAM/RHMA3-VAAL3/COCA13
647	CHF110	western hemlock/redwood sorrel-NWO Cascades	TSHE/OXOR-NWO Cascades
647	CHF150	western hemlock/Pacific swordfern-NWO Cascades	TSHE/POMU-NWO Cascades
647	CHF220	western hemlock/sweet after death-dry-NWO Cascades	TSHE-ACCI-dry-NWO Cascades
647	CHF221	western hemlock/sweet after death	TSHE/ACTR
647	CHF321	western hemlock/twinflower	TSHE/LIBO3
647	CHM121	western hemlock/American skunkcabbage	TSHE/LYAM3
647	CHS110	western hemlock/salal-NWO Cascades	TSHE-GASH-NWO Cascades
647	CHS158	western hemlock/Cascade barberry-dry-NWO Cascades	TSHE/MANE2-dry-NWO Cascades
647	CHS159	western hemlock/Cascade barberry-salal-dry-NWO Cascades	TSHE/MANE2-GASH-dry-NWO Cascades
647	CHS160	western hemlock/Cascade barberry-salal-NWO Cascades	TSHE/MANE2-GASH-NWO Cascades
647	CHS161	western hemlock/Cascade barberry-NWO Cascades	TSHE/MANE2-NWO Cascades
647	CHS162	western hemlock/Cascade barberry/sweet after death	TSHE/MANE2/ACTR
647	CHS163	western hemlock/Cascade barberry/redwood-sorrel-NWO Cascades	TSHE/MANE2/OXOR-NWO Cascades
647	CHS164	western hemlock/Cascade barberry/western swordfern-NWO Cascades	TSHE/MANE2/POMU-NWO Cascades

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
647	CHS228	western hemlock/vine maple/western swordfern NWO Cascades	TSHE/ACCI/POMU-NWO Cascades
647	CHS232	western hemlock/vine maple-salal/western swordfern NWO Cascades	TSHE/ACCI-GASH/POMU-NWO Cascades
647	CHS326	western hemlock/Pacific rhododendron-Alaska blueberry/bunchberry dogwood	TSHE/RHMA3-VAAL3/COCA13
647	CHS350	western hemlock/Pacific rhododendron-salal-NWO Cascades	TSHE/RHMA3-GASH-NWO Cascades
647	CHS354	western hemlock/Pacific rhododendron/redwood sorrel	TSHE/RHMA3/OXOR
647	CHS355	western hemlock/Pacific rhododendron-twinflower	TSHE/RHMA3-LIBO3
647	CHS356	western hemlock/Pacific rhododendron-Cascade barberry-NWO Cascades	TSHE/RHMA3-MANE2-NWO Cascades
647	CHS357	western hemlock/Pacific rhododendron/common beargrass	TSHE/RHMA3/XETE
647	CHS522	western hemlock/devilsclub/redwood sorrel	TSHE/OPHO/OXOR
647	CHS525	western hemlock/devilsclub/starry false lily of the valley	TSHE/OPHO/MAST4
647	CHS611	western hemlock/Alaska blueberry-devilsclub	THSE/VAAL3-OPHO
647	CHS613	western hemlock/Alaska blueberry/redwood sorrel-NWO Cascades	THSE/VAAL3/OXOR-NWO Cascades
647	CHS614	western hemlock/Alaska blueberry-salal	TSHE/VAAL3-GASH
647	CHS615	western hemlock/Alaska blueberry/bunchberry dogwood NWO Cascades	TSHE/VAAL3/COCO13-NWO Cascades
647	CMG212	mountain hemlock/forked woodrush	TSME/LUDI
647	CMS117	mountain hemlock/pinemat manzanita	TSME/ARNE
647	CMS118	mountain hemlock/grouse whortlberry-NW Oregon	TSME/VASC
647	CMS224	mountain hemlock/thinleaf huckleberry/common beargrass	TSME/VAME/XETE
647	CMS225	mountain hemlock/rusty menziesia	TSME/MEFE
647	CMS226	mountain hemlock/Cascade azalea/bride's bonnet	TSME/RHAL2/CLUN2
647	CMS227	mountain hemlock/Cascade azalea/common beargrass	TSME/RHAL2/XETE
647	CMS228	mountain hemlock/thinleaf huckleberry-western mountain ash	TSME/VAME-SOSI2
647	CMS229	mountain hemlock/thinleaf huckleberry/bride's bonnet	TSME/VAME/CLUN2
647	CMS613	mountain hemlock/Pacific rhododendron	TSME/RHMA3
647	CWF211	grand fir/pipsissewa	ABGR/CHUM
647	CWS521	grand fir/kinnikinnick	ABGR/ARUV
647	CWS522	grand fir/Cascade barberry	ABGR/MANE2
647	CWS527	grand fir/vine maple/western swordfern	ABGR/ACCI/POMU
647	CWS528	grand fir/Cascade barberry-salal	ABGR/MANE2-GASH
647	CWS529	grand fir/oceanspray/western swordfern	ABGR/HODI/POMU
647	CWS555	grand fir/beaked hazelnut/white insideout flower	ABGR/COCO6/VAHE
647	CWS622	grand fir/Pacific poison oak	ABGR/TODI
648	CAF312	mountain hemlock-subalpine fir/Cascade aster	TSME-ABLA2/EULE14
648	CAG313	mountain hemlock-whitebark pine/lupine	TSME-PIAL/LUGL
648	CAG314	mountain hemlock/lupine	TSME/LUGL
648	CAS212	mountain hemlock/red heather-blueleaf huckleberry, NW Oregon	TSME/PHEM-VADE
648	CAS412	mountain hemlock-Subalpine fir/common juniper	TSME-ABLA2/JUCO6
648	CDC710	Douglas-fir/dwarf Oregon grape	PSME/MANE2

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
648	CDC712	Douglas-fir-W. hemlock/rhododendron	PSME-TSHE/RHMA
648	CDC714	Douglas-fir/dwarf Oregon grape/salal	PSME/MANE2-GASH
648	CDS124	Douglas-fir/poison oak	PSME/TODI
648	CDS212	Douglas-fir/oceanspray/grass	PSME/HODI/GRASS
648	CDS213	Douglas-fir/oceanspray/whipple vine	PSME/HODI/WHMO
648	CDS216	Douglas-fir/oceanspray-dwarf Oregon grape	PSME/HODE-MANE2
648	CDS217	Douglas-fir/oceanspray-snowberry	PSME/HODI-SYMPH
648	CDS312	Douglas-fir/California hazel-creeping snowberry/swordfern	PSME/COCO6-SYMO/POMU
648	CDS512	Douglas-fir/dwarf Oregon grape/salal	PSME/MANE2-GASH
648	CFC311	silver fir-grand fir/false solomonseal	ABAM-ABGR/SMST
648	CFF152	silver fir/coolwort foamflower	ABAM/TIUN
648	CFF155	Pacific silver fir/Oregon oxalis-NWO coast	ABAM/OXOR
648	CFF613	Pacific silver fir/Oregon oxalis-swordfern	ABAM/OXOR-POMU
648	CFS151	silver fir/dwarf Oregon grape	ABAM/BENE
648	CFS251	silver fir/big huckleberry/beargrass	ABAM/VAME/XETE
648	CFS254	silver fir/fools huckleberry	ABAM/MEFE
648	CFS255	silver fir/Alaska huckleberry-salal	ABAM/VAAL-GASH
648	CFS256	silver fir/big huckleberry/beadily	ABAM/VAME/CLUN
648	CFS351	silver fir/devils club	ABAM/OPHO
648	CHF110	western hemlock/Oregon oxalis-NWO Cascades	TSHE/OXOR-NWO Cascades
648	CHF141	western hemlock/Oregon oxalis-NWO coast	TSHE/OXOR-NWO Coast
648	CHF142	western hemlock/swordfern-NWO coast	TSHE/POMU/NWO Coast
648	CHF150	western hemlock/swordfern-NWO Cascades	TSHE/POMU-NWO Cascades
648	CHF220	western hemlock/vanilla leaf-DRY-NWO Cascades	TSHE/ACTR-DRY-NWO Cascades
648	CHF221	western hemlock/vanillaleaf	TSHE/ACTR
648	CHF231	western hemlock/Oregon oxalis-vanilla leaf	TSHE/OXOR-ACTR
648	CHF232	western hemlock/vanilla leaf-DRY-NWO coast	TSHE/ACTR-DRY-NWO Coast
648	CHF321	western hemlock/twinflower	TSHE/LIBO3
648	CHS110	western hemlock/salal-NWO Cascades	TSHE/GASH-NWO Cascades
648	CHS151	western hemlock/dwarf Oregon grape-NWO coast	TSHE/MANE2-NWO Coast
648	CHS152	western hemlock/dwarf Oregon grape-DRY-NWO coast	TSHE/MANE2-DRY-NWO Coast
648	CHS153	western hemlock/dwarf Oregon grape-salal-NWO coast	TSHE/MANE2-GASH-NWO Coast
648	CHS154	western hemlock/dwarf Oregon grape-salal-DRY-NWO coast	TSHE/MANE2-GASH-DRY-NWO Coast
648	CHS155	western hemlock/dwarf Oregon grape/Oregon oxalis-NWO coast	TSHE/MANE2/OXOR-NWO Coast
648	CHS156	western hemlock/dwarf Oregon grape/swordfern-NWO coast	TSHE/MANE2/POMU-NWO Coast

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
648	CHS157	western hemlock/salal-NWO coast	TSHE/GASH-NWO Coast
648	CHS158	western hemlock/dwarf Oregon grape-DRY-NWO Cascades	TSHE/MANE2-DRY-NWO Cascades
648	CHS159	western hemlock/dwarf Oregon grape-salal-DRY-NWO Cascades	TSHE/MANE2-GASH-DRY-NWO Cascades
648	CHS160	western hemlock/dwarf Oregon grape-salal-NWO Cascades	TSHE/MANE2-GASH-NWO Cascades
648	CHS161	western hemlock/dwarf Oregon grape-NWO Cascades	TSHE/MANE2-NWO Cascades
648	CHS162	western hemlock/dwarf Oregon grape/vanilla leaf-NWO Cascades	TSHE/MANE2/ACTR-NWO Cascades
648	CHS163	western hemlock/dwarf Oregon grape/Oregon oxalis-NWO Cascades	TSHE/MANE2/OXOR-NWO Cascades
648	CHS164	western hemlock/dwarf Oregon grape/swordfern-NWO Cascades	TSHE/MANE2/POMU-NWO Cascades
648	CHS222	western hemlock/vine maple/swordfern, coast	TSHE/ACCI/POMU-COAST
648	CHS230	western hemlock/vine maple-salal/swordfern-NWO coast	TSHE/ACCI-GASH/POMU-NWO Coast
648	CHS231	western hemlock/vine maple-California hazel	TSHE/ACCI-COCO6
648	CHS314	western hemlock/rhododendron-dwarf Oregon grape-NWO coast	TSHE/RHMA3-MANE2-NWO Coast
648	CHS322	western hemlock/rhododendron-salal, coast	TSHE/RHMA-GASH-COAST
648	CHS323	western hemlock/rhododendron/swordfern, coast	TSHE/RHMA/POMU-COAST
648	CHS324	western hemlock/rhododendron-evergreen huckleberry, coast	TSHE/RHMA-VAOV2-COAST
648	CHS350	western hemlock/rhododendron-salal-NWO Cascades	TSHE/RHMA3-GASH-NWO Cascades
648	CHS356	western hemlock/rhododendron-dwarf Oregon grape-NWO Cascades	TSHE/RHMA3-MANE2-NWO Cascades
648	CHS357	western hemlock/rhododendron/beargrass-NWO Cascades	TSHE/RHMA3/XETE-NWO Cascades
648	CHS421	western hemlock/salmonberry, coastal	TSHE/RUSP-COAST
648	CHS422	western hemlock/salmonberry/vine maple, coast	TSHE/RUSP-ACCI-COAST
648	CHS423	western hemlock/salmonberry/salal, coastal	TSHE/RUSP-GASH-COAST
648	CHS521	western hemlock/devils club, coastal	TSHE/OPHO-COAST
648	CHS610	western hemlock/evergreen huckleberry, coastal	TSHE/VAOV2-COAST
648	CHS616	western hemlock/Alaska huckleberry/Oregon oxalis-NWO coast	TSHE/VAAL/OXOR-NWO Coast
648	CMG211	mountain hemlock/woodrush	TSME/LUZULA
648	CMG212	mountain hemlock/lupine	TSME/LUDI
648	CMS117	mountain hemlock/pinemat manzanita	TSME/ARNE
648	CMS118	mountain hemlock/grouse whortleberry-NW Oregon	TSME/VASC-NWO

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
648	CMS224	mountain hemlock/big huckleberry/beargrass, NW Oregon	TSME/VAME/XETE-NWO
648	CMS225	mountain hemlock/rusty menziesia, NW Oregon	TSME/MEFE-NWO
648	CMS226	mountain hemlock/white beaksedge/bead lily	TSME/RHAL/CLUN
648	CMS227	mountain hemlock/white beaksedge/beargrass	TSME/RHAL/XETE
648	CMS228	mountain hemlock/big huckleberry-Mt. Albert goldenrod	TSME/VAME-SOSI
648	CMS229	mountain hemlock/big huckleberry-beadlily	TSME/VAME/CLUN-NWO
648	CMS613	mountain hemlock/Rhododendron, NW Oregon	TSME/RHMA-NWO
648	CSF121	Sitka spruce/swordfern	PISI/POMU
648	CSF321	Sitka spruce/oxalis	PISI/OXOR
648	CSS321	Sitka spruce/salal	PISI/GASH
648	CSS521	Sitka spruce/salmonberry	PISI/RUSP
648	CSS522	Sitka spruce/salmonberry-salal	PISI/RUSP-GASH
648	CWS522	grand fir/dwarf Oregon grape	ABGR/BENE
648	CWS527	grand fir/vine maple/swordfern	ABGR/ACCI/POMU
648	CWS528	grand fir/dwarf Oregon grape-salal	ABGR/MANE2-GASH
648	CWS529	grand fir/oceanspray/sword fern	ABGR/HODI/POMU
648	CWS555	grand fir/California hazel/inside out flower	ABGR/COCO6/VAHE
648	CWS622	grand fir/poison oak	ABGR/TODI
650	CAF312	mountain hemlock-subalpine fir/Cascade aster	TSME-ABLA2/EULE14
650	CAG313	mountain hemlock-whitebark pine/lupine	TSME-PIAL/LUGL
650	CAG314	mountain hemlock/lupine	TSME/LUGL
650	CAS212	mountain hemlock/red heather-blueleaf huckleberry, NW Oregon	TSME/PHEM-VADE-NWO
650	CAS412	mountain hemlock-subalpine fir/common juniper	TSME-ABLA2/JUCO6
650	CDC710	Douglas-fir/dwarf Oregon grape	PSME/MANE2
650	CDC714	Douglas-fir/dwarf Oregon grape/salal	PSME/MANE2-GASH
650	CDS124	Douglas-fir/poison oak	PSME/TODI
650	CDS216	Douglas-fir/oceanspray-dwarf Oregon grape	PSME/HODI-MANE2
650	CDS217	Douglas-fir/oceanspray-snowberry	PSME/HODI-SYMPH
650	CDS312	Douglas-fir/California hazel-creeping snowberry/swordfern	PSME/COCO6-SYMO/POMU
650	CDS512	Douglas-fir/dwarf Oregon grape/salal	PSME/MANE2-GASH
650	CFF155	Pacific silver fir/Oregon oxalis-NWO coast	ABAM/OXOR-NWO Coast
650	CFF613	Pacific silver fir/Oregon oxalis-swordfern	ABAM/OXOR-POMU
650	CHF110	western hemlock/Oregon oxalis-NWO Cascades	TSHE/OXOR-NWO Cascades
650	CHF141	western hemlock/Oregon oxalis-NWO coast	TSHE/OXOR-NWO Coast
650	CHF142	western hemlock/swordfern-NWO coast	TSHE/POMU/NWO Coast
650	CHF150	western hemlock/swordfern-NWO Cascades	TSHE/POMU-NWO Cascades
650	CHF220	western hemlock/vanilla leaf-DRY-NWO Cascades	TSHE/ACTR-DRY-NWO Cascades
650	CHF231	western hemlock/Oregon oxalis-vanilla leaf	TSHE/OXOR-ACTR

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
650	CHF232	western hemlock/vanilla leaf-DRY-NWO coast	TSHE/ACTR-DRY-NWO Coast
650	CHS110	western hemlock/salal-NWO Cascades	TSHE/GASH-NWO Cascades
650	CHS151	western hemlock/dwarf Oregon grape-NWO coast	TSHE/MANE2-NWO Coast
650	CHS152	western hemlock/dwarf Oregon grape-DRY-NWO coast	TSHE/MANE2-DRY-NWO Coast
650	CHS153	western hemlock/dwarf Oregon grape-salal-NWO coast	TSHE/MANE2-GASH-NWO Coast
650	CHS154	western hemlock/dwarf Oregon grape-salal-DRY-NWO coast	TSHE/MANE2-GASH-DRY-NWO Coast
650	CHS155	western hemlock/dwarf Oregon grape/Oregon oxalis-NWO coast	TSHE/MANE2/OXOR-NWO Coast
650	CHS156	western hemlock/dwarf Oregon grape/swordfern-NWO coast	TSHE/MANE2/POMU-NWO Coast
650	CHS157	western hemlock/salal-NWO coast	TSHE/GASH-NWO Coast
650	CHS158	western hemlock/dwarf Oregon grape-DRY-NWO Cascades	TSHE/MANE2-DRY-NWO Cascades
650	CHS159	western hemlock/dwarf Oregon grape-salal-DRY-NWO Cascades	TSHE/MANE2-GASH-DRY-NWO Cascades
650	CHS160	western hemlock/dwarf Oregon grape-salal-NWO Cascades	TSHE/MANE2-GASH-NWO Cascades
650	CHS161	western hemlock/dwarf Oregon grape-NWO Cascades	TSHE/MANE2-NWO Cascades
650	CHS162	western hemlock/dwarf Oregon grape/vanilla leaf-NWO Cascades	TSHE/MANE2/ACTR-NWO Cascades
650	CHS163	western hemlock/dwarf Oregon grape/Oregon oxalis-NWO Cascades	TSHE/MANE2/OXOR-NWO Cascades
650	CHS164	western hemlock/dwarf Oregon grape/swordfern-NWO Cascades	TSHE/MANE2/POMU-NWO Cascades
650	CHS228	western hemlock/vine maple/swordfern-NWO Cascades	TSHE/ACCI/POMU-NWO Cascades
650	CHS230	western hemlock/vine maple-salal/swordfern-NWO coast	TSHE/ACCI-GASH/POMU-NWO Coast, TSHE/ACCI-GASH/POMU-NWO
650	CHS231	western hemlock/vine maple-California hazel	TSHE/ACCI-COCO6
650	CHS314	western hemlock/rhododendron-dwarf Oregon grape-NWO coast	TSHE/RHMA3-MANE2-NWO Coast
650	CHS350	western hemlock/rhododendron-salal-NWO Cascades	TSHE/RHMA3-GASH-NWO Cascades
650	CHS356	western hemlock/rhododendron-dwarf Oregon grape-NWO Cascades	TSHE/RHMA3-MANE2-NWO Cascades
650	CHS357	western hemlock/rhododendron/beargrass-NWO Cascades	TSHE/RHMA3/XETE-NWO Cascades
650	CHS616	western hemlock/Alaska huckleberry/Oregon oxalis-NWO coast	TSHE/VAAL/OXOR-NWO Coast

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
650	CMG212	mountain hemlock/lupine	TSME/LUDI
650	CMS117	mountain hemlock/pinemat manzanita	TSME/ARNE
650	CMS118	mountain hemlock/grouse whortleberry-NW Oregon	TSME/VASC-NWO
650	CMS224	mountain hemlock/big huckleberry/beargrass, NW Oregon	TSME/VAME/XETE-NWO
650	CMS225	mountain hemlock/rusty menziesia, NW Oregon	TSME/MEFE-NWO
650	CMS226	mountain hemlock/white beaksedge/bead lily	TSME/RHAL/CLUN
650	CMS227	mountain hemlock/white beaksedge/beargrass	TSME/RHAL/XETE
650	CMS228	mountain hemlock/big huckleberry-Mt. Albert goldenrod	TSME/VAME-SOSI
650	CMS229	mountain hemlock/big huckleberry-beadlily	TSME/VAME/CLUN-NWO
650	CMS613	mountain hemlock/rhododendron, NW Oregon	TSME/RHMA-NWO
650	CWS527	grand fir/vine maple/swordfern	ABGR/ACCI/POMU
650	CWS528	grand fir/dwarf Oregon grape-salal	ABGR/MANE2-GASH
650	CWS529	grand fir/oceanspray/sword fern	ABGR/HODI/POMU
650	CWS555	grand fir/California hazel/inside out flower	ABGR/COCO6/VAHE
650	CWS622	grand fir/poison oak	ABGR/TODI
653	CMF311	mountain hemlock/wild ginger	TSME/ASCA2
653	CMF211	mountain hemlock/queencup beadlily	TSME/CLUN2
653	CMF221	mountain hemlock/vanilla leaf	TSME/ACTR
653	CMF231	mountain hemlock/twinflower	TSME/LIBO3
653	CMS313	mountain hemlock/pink mountain heath-Cascade bilberry	TSME/PHEM-VADE
653	CMG221	mountain hemlock/smooth woodrush	TSME/LUHI
653	CMS232	mountain hemlock/thinleaf huckleberry	TSME/VAME
653	CMS216	mountain hemlock/thinleaf huckleberrk/common beargrass	TSME/VAME/XETE
653	CMS841	mountain hemlock/golden chinquapin	TSME/CHCH7
653	CMF141	mountain hemlock/common beargrass	TSME/XETE
653	CMF331	mountain hemlock/common prince's pine	TSME/CHUM
653	CMS111	mountain hemlock/grouse whortleberry	TSME/VASC
653	CMS117	mountain hemlock/pinemat manzanita	TSME/ARNE
653	CMG341	mountain hemlock/long-stolon sedge	TSME/CAIN4
653	CFM112	Pacific silver fir/American skunkcabbage	ABAM/LYAM
653	CFF121	Pacific silver fir/wild ginger	ABAM/ASCA2
653	CFF142	Pacific silver fir/queencup beadlily	ABAM/CLUN2
653	CFF252	Pacific silver fir/vanilla leaf	ABAM/ACTR
653	CFF511	Pacific silver fir/twinflower	ABAM/LIBO3
653	CFS251	Pacific silver fir/thinleaf huckleberry/common beargrass	ABAM/VAME/XETE
653	CFS270	Pacific silver fir/thinleaf huckleberry	ABAM/VAME
653	CFS410	Pacific silver fir/grouse whortleberry	ABAM/VASC
653	CHF313	western hemlock/wild ginger	TSHE/ASCA2
653	CHF311	western hemlock/queencup beadlily	TSHE/CLUN2
653	CHF221	western hemlock/vanilla leaf	TSHE/ACTR
653	CHF321	western hemlock/twinflower	TSHE/LIBO3
653	CCF221	western redcedar/queecup beadlily	THPL/CLUN2
653	CCF211	western redcedar/twinflower	THPL/LIBO3
653	CWF551	white fir-grand fir/wild ginger	ABCO-ABGR/ASCA2
653	CWF431	white fir-grand fir/queencup beadlily	ABCO-ABGR/CLUN2
653	CWF522	white fir-grand fir/vanilla leaf	ABCO-ABGR/ACTR

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
653	CWF341	white fir-grand fir/twinflower	ABCO-ABGR/LIBO3
653	CWF521	white fir-grand fir/western starflower	ABCO-ABGR/ TRBOL
653	CWS533	white fir-grand fir/golden chinquapin	ABCO-ABGR/ CHCH7
653	CWF562	white fir-grand fir/starry false-solomonseal	ABCO-ABGR/ MAST4
653	CWS361	white fir-grand fir/creeping snowberry	ABCO-ABGR/SYMO
653	CWF241	white fir-grand fir/common prince's pine	ABCO-ABGR/CHUM
653	CWS531	white fir-grand fir/oceanspray	ABCO-ABGR/HODI
653	CWS362	white fir-grand fir/common snowberry	ABCO-ABGR/SYAL
653	CWG141	white fir-grand fir/pinegrass	ABCO-ABGR/CARU
653	CWS363	white fir-grand fir/pinemant manzanita	ABCO-ABGR/ARNE
653	CWG142	white fir-grand fir/long-stolen sedge	ABCO-ABGR/CAIN9
653	CWS364	white fir-grand fir/mahala mat	ABCO-ABGR/CEPR
653	CWF741	white fir-grand fir/woolly mule-ears	ABCO-ABGR/ WYMO
653	CWS141	white fir-grand fir/greenleaf Manzanita	ABCO-ABGR/ ARPA6
653	CWF362	white fir-grand fir/sticky starwort	ABCO-ABGR/PSJA2
653	CRS314	Shasta red fir/golden chinquapin	ABSH/CHCH7
653	CRF301	Shasta red fir/common prince's pine	ABSH/CHUM
653	CRS111	Shasta red fir/pinemat manzanita	ABSH/ARNE
653	CRG112	Shasta red fir/long-stolen sedge	ABSH/CAIN9
653	CDF341	Douglas-fir/starflower	PSME/TRBOL
653	CDH525	Douglas-fir/chinquapin	PSME/CHCH7
653	CDS643	Douglas-fir/creeping snowberry	PSME/SYMO
653	CDF342	Douglas-fir/prince's pine	PSME/CHUM
653	CDS210	Douglas-fir/oceanspray	PSME/HODI
653	CDS633	Douglas-fir/common snowberry	PSME/SYAL
653	CDS645	Douglas-fir/mahala mat	PSME/CEPR
653	CDG111	Douglas-fir/elk sedge	PSME/CAGE2
653	CDS141	Douglas-fir/greenleaf manzanita	PSME/ARPA6
653	CDS673	Douglas-fir/bitterbrush	PSME/PUTR2
653	CPC731	ponderosa pine-incense cedar/common snowberry	PIPO-CADE27/SYAL
653	CPC732	ponderosa pine-incense cedar/mahala mat	PIPO-CADE27/CEPR
653	CPC733	ponderosa pine-incense cedar/greenleaf Manzanita	PIPO-CADE27/ ARPA6
653	CPC734	ponderosa pine-incense cedar/bitterbrush	PIPO-CADE27/ PUTR2
653	CPH215	ponderosa pine-Oregon white oak/common snowberry	PIPO-QUGA4/SYAL
653	CPH212	ponderosa pine-Oregon white oak/bitterbrush	PIPO-QUGA4/PUTR2
653	CPS541	ponderosa pine/Douglas spirea	PIPO/SPDO
653	CPH312	ponderosa pine-aspen	PIPO-POTR5
653	CPS641	ponderosa pine/kinnikinnick	PIPO/ARUV
653	CPS542	ponderosa pine/creeping snowberry	PIPO/SYMO
653	CPF141	ponderosa pine/prince's pine	PIPO/CHUM
653	CPS524	ponderosa pine/common snowberry	PIPO/SYAL
653	CPS341	ponderosa pine/mahala mat	PIPO/CEPR
653	CPF111	ponderosa pine/woolly wyethia	PIPO/WYMO

Potential Vegetation Codes (cont.)

REF	CODE	Common Name	Scientific Name
653	CPS325	ponderosa pine/curl-leaf mountain mahogany	PIPO/CELE3
653	CPG211	ponderosa pine/long-stolon sedge	PIPO/CAIN9
653	CPS219	ponderosa pine/greenleaf manzanita	PIPO/ARPA6
653	CPS211	ponderosa pine/bitterbrush/Idaho fescue	PIPO/PUTR2/FEID
653	CPS210	ponderosa pine/bitterbrush	PIPO/PUTR2
653	CPS141	ponderosa pine/big sagebrush	PIPO/ARTR2
653	CPG135	ponderosa pine/Idaho fescue	PIPO/FEID
653	CPG125	ponderosa pine/western needlegrass	PIPO/ACOC3
653	CLC113	whitebark pine-lodgepole pine/pinemat manzanita	PIAL-PICO/ARNE
653	CLC114	whitebark pine-lodgepole pine/long-stolon sedge	PIAL-PICO/CAIN9
653	CLM912	lodgepole pine/few-flowered spikerush	PICO/ELQU2
653	CLM113	lodgepole pine/widefruit sedge	PICO/CAAN15
653	CLM312	lodgepole pine/bog blueberry/widefruit sedge	PICO/VAUL/ CAAN15
653	CLM314	lodgepole pine/Douglas spirea/widefruit sedge	PICO/SPDO/CAAN15
653	CLM311	lodgepole pine/bog blueberry/widefruit sedge	PICO/VAUL
653	CLM313	lodgepole pine/Douglas spirea	PICO/SPDO
653	CLM211	lodgepole pine/bearberry	PICO/ARUV
653	CLS311	lodgepole pine/pinemat manzanita	PICO/ARNE
653	CLG419	lodgepole pine/long-stolon sedge	PICO/CAIN9
653	CLS214	lodgepole pine/bitterbrush/Idaho fescue	PICO/PUTR2/FEID
653	CLS211	lodgepole pine/bitterbrush/western needlegrass	PICO/PUTR2/ACOC3
653	CLG316	lodgepole pine/Idaho fescue	PICO/FEID
653	CLG317	lodgepole pine/western needlegrass	PICO/ACOC3

APPENDIX H: FUEL PHOTO REFERENCES AND CODES

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 For. Serv. Gen. Tech. Rep. INT-96, 53 p. Intermt. For. and Range Exp. Stn., Ogden, Utah 84401.
2	Fischer, William C. 1981. Photo Guide for Appraising Downed Woody Fuels in Montana Forests: Interior Ponderosa Pine, Ponderosa Pine - Larch - Douglas-fir, Larch -Douglas-fir, and Interior Douglas-fir Cover Types. USDA For. Serv. Gen. Tech. Rep. INT-97, 133 p. Intermt. For. and Range Exp. Stn., Ogden, Utah 84401.
3	Fischer, William C. 1981. Photo Guide for Appraising Downed Woody Fuels in Montana Forests: Lodgepole Pine and Engelmann Spruce-Subalpine fir Cover Types. USDA For. Serv. Gen. Tech. Rep. INT-98, 143 p. Intermt. For. and Range Exp. Stn., Ogden, Utah 84401.
4	Fischer, William C. 1981. Photo Guides for Appraising Downed Woody Fuels in Montana Forests: How They Were Made. USDA For. Serv. Res. Note INT-299, 12 p. Intermt. For. and Range Exp. Stn., Ogden, Utah 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 For. Serv. Gen. Tech. Rep. INT-46, 50 p. Intermt. For. and Range Exp. Stn., Ogden, Utah 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 Type, Lodgepole Pine Type. USDA For. Serv. Gen. Tech. Rep. PNW-52, 74 p. Pacific Northwest Range Exp. Stn., Portland, Oregon 97208.
7	Blonski, Kenneth S. and Schramel, John L. Photo Series for Quantifying Natural Forest Residues: Southern Cascades, Northern Sierra Nevada. USDA For. Serv. Gen Tech. Rept. PSW-56, Pacific Southwest Forest and Range Exp. Stn., Forest Service, Berkeley, CA. 1981. 145 p.
8	Maxwell, Wayne G. and Ward, Franklin R. Photo Series for Quantifying Natural Forest Residues in Common Vegetation Types of the Pacific Northwest. USDA For. Serv. Gen Tech Rept. PNW-105. Pacific Northwest Forest and Range Expt. Stn., Portland, OR. 1980. 229 p.
9	Ottmar, Roger D. and Hardy, Colin C. 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 For.Serv. Gen. Tech. Rept. PNW-231, Pacific Northwest Range Exp. Stn., Portland, OR. 1989 67 p.
10	Mackay, Douglas H. and Everett M. Stiger, Delman Goss, Byron Bonney. Photo Series for Quantifying Forest Residues in: Douglas-fir, Engelmann Spruce Type, Limber Pine Type, Lodgepole Pine Type, Ponderosa Pine Type, Subalpine Fir Type for Eastern Montana. USDA Forest Service Northern Region. 162 p

Fuel Photo References (cont.)

Code	Reference
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. 80p.
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, Oregon.
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	Rodger D. Otmar 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**Fuel Photo Codes For Reference 1**

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

Fuel Photo Codes For Reference 2

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

Fuel Photo Codes For Reference 3

1	12	24A	37	46	53	81	96
1A	19	25A	38	46A	54	82	97
2	20	26	39	47	55	83	98
2A	20A	26A	40	47A	57	85	
3	21	27	41	48A	58	87	
4	21A	34A	44	49A	59	90	
6	22	35	44A	50	60	92	
10	22A	35A	45	51	61	93	
11	23A	36	45A	52	62	94	

Fuel Photo Codes For Reference 5

1WH1TH	4WH1TH	1GF1TH	4GF1TH	3WC1TH	6WC1TH
2WH1TH	5WH1TH	2GF1TH	1WC1TH	4WC1TH	7WC1TH
3WH1TH	6WH1TH	3GF1TH	2WC1TH	5WC1TH	

Fuel Photo Codes For Reference 6

1PP4CC	3PP4PC	2PP1TH	6PP1TH	4PP&ASSOC4PC	8PP&ASSOC4PC	3LP3PC
2PP4CC	4PP4PC	3PP1TH	1PP&ASSOC4PC	5PP&ASSOC4PC	1LP3CC	4LP3PC
1PP4PC	5PP4PC	4PP1TH	2PP&ASSOC4PC	6PP&ASSOC4PC	1LP3PC	5LP3PC
2PP4PC	1PP1TH	5PP1TH	3PP&ASSOC4PC	7PP&ASSOC4PC	2LP3PC	

Fuel Photo Codes For Reference 7

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

Fuel Photo Codes For Reference 8

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

Fuel Photo Codes For Reference 9

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

Fuel Photo Codes For Reference 11

1PP1	1PP3	1SP3PC	2PP3PC	3PP2PC	4PP2PC	7PP1TH
1PP1PC	1PP3CC	2PP1TH	2PPSP3PC	3PP3PC	5PP1TH	
1PP1TH	1PP3PC	2PP2	2SP3PC	3PPSP3PC	5PP2PC	
1PP2	1PPSP3PC	2PP2PC	3PP1TH	4PP1TH	6PP1TH	

Fuel Photo Codes For Reference 12

1AZPPSPPRE01	1PP2(PNW-105)	2PP&ASSOC3	2PP4(PNW-105)	3PP3(PNW-105)	4PP4
1AZPPSPPRE02	1PP2PC	2PP&ASSOC4	2PPSP3PC	3PP4	4PP4PC
1AZPPSPPRE03	1PP3	2PP1	2SP3PC	3PP4PC	4WF3
1AZPPSPPRE04	1PP3(BH)	2PP1TH	3MC2	3PP4(PNW-105)	5PP&ASSOC3
1JU2	1PP3(PNW-105)	2PP1TH(BH)	3MC3	3PPSP3PC	5PP1TH
1MC2	1PP3CC	2PP2	3PP&ASSOC3	3WF2	5PP1TH(BH)
1MC3	1PP3PC	2PP2(BH)	3PP&ASSOC4	3WF3	5PP2PC
1PP&ASSOC3	1PP4	2PP2(PNW-105)	3PP1	4PP&ASSOC3	5PP3
1PP&ASSOC4	1PP4PC	2PP2PC	3PP1TH	4PP1TH	5PP4PC
1PP1	1PP4(PNW-105)	2PP3CC	3PP1TH(BH)	4PP1TH(BH)	6PP1TH
1PP1(BH)	1PPSP3PC	2PP3PC	3PP2	4PP2	6PP1TH(BH)
1PP1TH	1SP3PC	2PP3	3PP2(PNW-105)	4PP2(PNW-105)	6PP3
1PP1TH(BH)	2JU2	2PP3(PNW-105)	3PP2PC	4PP2PC	7PP1TH
1PP2	2MC2	2PP4	3PP3PC	4PP3	7PP1TH(BH)
1PP2(BH)	2MC3	2PP4PC	3PP3	4PP3(PNW-105)	7PP3
					8PP3

Fuel Photo Codes For Reference 13

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

Fuel Photo Codes For Reference 14

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

Fuel Photo Codes For Reference 15

BG01	MC01	MC05	MC09	MC13	MC17	SB04	WJ03
BG02	MC02	MC06	MC10	MC14	SB01	SGO4	WJ04
BG03	MC03	MC07	MC11	MC15	SB02	WJ01	
BG04	MC04	MC08	MC12	MC16	SB03	WJ02	

Fuel Photo Codes For Reference 23

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

Fuel Photo Codes For Reference 27

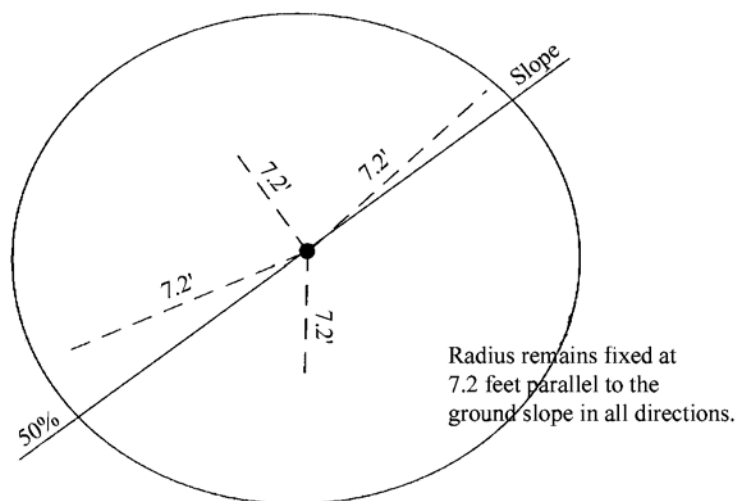
WO-01	WO-06	CDO-01	CDO-06	MCS-02	MCS-07
WO-02	WO-07	CDO-02	CDO-07	MCS-03	MCS-08
WO-03	WO-08	CDO-03	CDO-08	MCS-04	MCS-09
WO-04	WO-09	CDO-04	CDO-09	MCS-05	MCS-10
WO-05	WO-10	CDO-05	MCS-01	MCS-06	MCS-11

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APPENDIX I: FIXED RADIUS PLOT

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.



Circular Plot Radii Corrected for Slope

SLOPE %	Plot Size in Acres					
	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

Circular Plot Radii Corrected for Slope (cont.)

SLOPE %	Plot Size in Acres					
	1/300	1/100	1/50	1/20	1/10	1/5
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

Circular Plot Radii Corrected for Slope (cont.)

SLOPE %	Plot Size in Acres					
	1/300	1/100	1/50	1/20	1/10	1/5
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	70.7

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 plot on the slope. Following is a list of fixed plot sizes and the specific radius for each:

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

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

Slope Correction Table

Percent of Slope	Degree of Slope	Correction Factor	Percent of Slope	Degree of Slope	Correction Factor	Percent of Slope	Degree of Slope	Correction Factor
0 to 9	0-6	1.00	78 to 79	38	1.27	117	49	1.54
10 to 17	7-10	1.01	80	39	1.28	118 to 119	50	1.55
18 to 22	11-12	1.02	81 to 82	39	1.29	120	50	1.56
23 to 26	13-14	1.03	83	40	1.30	121	50	1.57
27 to 30	15-17	1.04	84 to 85	40	1.31	122	51	1.58
31 to 33	18	1.05	86	41	1.32	123 to 124	51	1.59
34 to 36	19-20	1.06	87 to 88	41	1.33	125	51	1.60
37 to 39	21	1.07	89	42	1.34	126	52	1.61
40 to 42	22	1.08	90 to 91	42	1.35	127 to 128	52	1.62
43 to 44	23	1.09	92	43	1.36	129	52	1.63
45 to 47	24	1.10	93 to 94	43	1.37	130	52	1.64
48 to 49	25-26	1.11	95	44	1.38	131	53	1.65
50 to 51	27	1.12	96 to 97	44	1.39	132 to 133	53	1.66
52 to 53	28	1.13	98	44	1.40	134	53	1.67
54 to 55	29	1.14	99 to	45	1.41	135	53	1.68

			100					
56 to 57	29	1.15	101	45	1.42	136	54	1.69
58 to 59	30	1.16	102	46	1.43	137 to 138	54	1.70
60 to 61	31	1.17	103 to104	46	1.44	139	54	1.71
62 to 63	32	1.18	105	46	1.45	140	54	1.72
64 to 65	33	1.19	106 to107	47	1.46	141	55	1.73
66 to 67	34	1.20	108	47	1.47	142 to 143	55	1.74
68 to 69	34	1.21	109	47	1.48	144	55	1.75
70	35	1.22	110 to 111	48	1.49	145	55	1.76
71 to 72	36	1.23	112	48	1.50	146	56	1.77
73 to 74	37	1.24	113	48	1.51	147	56	1.78
75	37	1.25	114 to 115	49	1.52	148 to 149	56	1.79
76 to 77	38	1.26	116	49	1.53	150	56	1.80

APPENDIX J: VARIABLE RADIUS PLOT

Table J-1: 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	33.0	33.3	33.6	33.9	34.1	34.4	34.7	34.9
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	59.8	60.1	60.4	60.7	60.9	61.2	61.5	61.7	62.0
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	68.5	68.8	69.1	69.3	69.6	69.9	70.1
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	78.0	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	123.2	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 J-2: 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	16.7	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	66.0	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 J-3: 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	40.0
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	64.6	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 J-4: 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	38.8	38.9	39.1	39.2	39.3	39.5	39.6	39.7	39.9
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	48.8	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	66.6	67.0	67.2	67.3	67.4	67.6	67.7	67.8

Prepared by multiplying the BAF 40 Plot Radius Factor $1.333 * \text{DBH}$.

For Example if DBH = 14.3 inches, then $14.3 * 1.333 = 19.1$ feet.

Table J-5: 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	16.8	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	34.6	34.7	34.8	34.9	35.0	35.1	35.2	35.3	35.5	35.6
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 $1.081 * \text{DBH}$.

For Example, if $\text{DBH} = 14.3$ inches, then $14.3 * 1.081 = 15.5$ feet.

Table J-6: Limiting Distance 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 the distance from plot-center to the face of the tree at DBH. To obtain the corrected limiting distance to a tree multiply the trees DBH by the “combined factor” shown under the appropriate BAF heading.

% of Slope	Slope Correction Factor	Combined Factor					
		5 BAF	10 BAF	15 BAF	20 BAF	30 BAF	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	3.849	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	3.856	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	1.343
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

Table J-6: Limiting Distance to Face of Tree and Slope Correction Factors for Various Basal Area Factors (cont.)

% of Slope	Slope Correction Factor	Combined Factor					
		5 BAF	10 BAF	15 BAF	20 BAF	30 BAF	40 BAF
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	2.135	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	1.21499	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

Table J-6: Limiting Distance to Face of Tree and Slope Correction Factors for Various Basal Area Factors (cont.)

% of Slope	Slope Correction Factor	Combined Factor					
		5 BAF	10 BAF	15 BAF	20 BAF	30 BAF	40 BAF
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	1.857
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	2.786	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	4.370	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

Table J-6: Limiting Distance to Face of Tree and Slope Correction Factors for Various Basal Area Factors (cont.)

% of Slope	Slope Correction Factor	Combined Factor					
		5 BAF	10 BAF	15 BAF	20 BAF	30 BAF	40 BAF
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

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APPENDIX K: DAMAGE CATEGORIES, AGENTS, SEVERITY RATINGS, AND TREE PARTS

Damage Categories

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

Category	Agent	Common Name	Scientific Name
10	000	General Insects	
<u>SEVERITY RATING</u>			
1 = minor			
2 = severe			
	001	Thrips	
	002	Tip moth	
	003	Wasp	
	008	Weevil	<i>Curculionidae</i>
	011	Ant	<i>Formicidae</i>
	012	Stick insect	<i>Graeffea crovanii</i>
	023	Wood wasps	<i>Siricidae spp.</i>
11	000	Bark Beetles	
<u>SEVERITY RATING</u>			
1 = Unsuccessful bole attack: pitchout and beetle brood absent			
2 = Strip attacks: galleries and brood present			
3 = Successful current bole attack: galleries and brood present			
4 = Topkill			
5 = Successful attack last year			
6 = Older dead			
	002	Western pine beetle	<i>Dendroctonus brevicomis</i>
	005	Lodgepole pine beetle	<i>Dendroctonus murrayanae</i>
	006	Mountain pine beetle	<i>Dendroctonus ponderosae</i>
	007	Douglas-fir beetle	<i>Dendroctonus pseudotsugae</i>
	009	Spruce beetle	<i>Dendroctonus rufipennis</i>
	012	Red turpentine beetle	<i>Dendroctonus valens</i>
	029	Pine engraver	<i>Ips pini</i>
	030	Ips engraver beetles	<i>Ips spp.</i>
	033	Oregon ash bark beetle	<i>Leperisinus oregonus</i>
	038	Douglas-fir twig beetle	<i>Pityophthorus pseudotsugae</i>
	043	Douglas-fir pole beetle	<i>Pseudohylesinus nebulosus</i>
	044	Silver fir beetle	<i>Pseudohylesinus sericeus</i>
	046	Spruce engraver	<i>Scolytus piceae</i>
	048	True fir bark beetles	<i>Scolytus spp.</i>
	049	Douglas-fir engraver	<i>Scolytus unispinosus</i>
	050	Fir engraver	<i>Scolytus ventralis</i>
	052	Sitka spruce engraver beetle	<i>Ips conncinnus</i>
	055	Spruce ips	<i>Ips pilifrons</i>
	056	Mexican pine beetle	<i>Dendroctonus mexicanus</i>

Damage Agents (cont.)

Category	Agent	Common Name	Scientific Name
12	000	Defoliators	
SEVERITY RATING			
1 = Light defoliation (1-25%), no topkill			
2 = Light defoliation (1-25%), topkill ≤10%			
3 = Light defoliation (1-25%), topkill >10%			
4 = Moderate defoliation (26-75%), no topkill			
5 = Moderate defoliation (26-75%), topkill ≤10%			
6 = Moderate defoliation (26-75%), topkill >10%			
7 = Heavy defoliation (76-100%), no topkill			
8 = Heavy defoliation (76-100%), topkill ≤10%			
9 = Heavy defoliation (76-100%), topkill >10%			
	001	Casebearer	
	002	Leaftier	
	003	Looper	
	004	Needleminer	
	005	Sawfly	
	011	Western blackheaded budworm	<i>Acleris gloverana</i>
	020	Western larch sawfly	<i>Anoplonyx occidens</i>
	035	Spruce webspinning sawfly	<i>Cephalcia fascipennis</i>
	038	Spruce budworm	<i>Choristoneura fumiferana</i>
	039	Sugar pine tortrix	<i>Choristoneura lambertiana</i>
	040	Western spruce budworm	<i>Choristoneura occidentalis</i>
	042	Modoc budworm	<i>Choristoneura retiniana</i>
	047	Larch casebearer	<i>Coleophora laricella</i>
	049	Lodgepole needleminer	<i>Coleotechnites milleri</i>
	050	Ponderosa needleminer	<i>Coleotechnites spp.</i>
	060	Spruce coneworm	<i>Dioryctria reniculelloides</i>
	089	Gypsy moth	<i>Lymantria dispar</i>
	094	Western tent caterpillar	<i>Malacosoma californicum</i>
	095	Pacific tent caterpillar	<i>Malacosoma constrictum</i>
	096	Forest tent caterpillar	<i>Malacosoma disstria</i>
	104	Lodgepole sawfly	<i>Neodiprion burkei</i>
	105	Blackheaded pine sawfly	<i>Neodiprion excitans</i>
	106	Pine infesting sawflies	<i>Neodiprion fulviceps</i>
	109	Ponderosa pine sawfly	<i>Neodiprion mundus</i>
	110	White pine sawfly	<i>Neodiprion pinetum</i>
	111	Jack pine sawfly	<i>Neodiprion pratti banksianae</i>
	115	Hemlock sawfly	<i>Neodiprion tsugae</i>
	123	Douglas-fir tussock moth	<i>Orgyia pseudotsugata</i>
	139	Larch sawfly	<i>Pristiphora erichsonii</i>
	150	Spruce needleminer (west)	<i>Taniva albolineana</i>
	158	Spruce bud moth	<i>Zeiraphera Canadensis</i>
	159	Larch bud moth	<i>Zeiraphera improbana</i>
	160	Pine needle sheathminer	<i>Zelleria haimbachi</i>
	177	Douglas-fir budmoth	<i>Zeiraphera hesperiana</i>
	190	Hickory tussock moth	<i>Halisidota caryae</i>

Damage Agents (cont.)

Category	Agent	Common Name	Scientific Name
12 (cont.)	191	Pin oak sawfly	<i>Caliroa lineata</i>
	192	Palmerworm	<i>Dichomeris ligulella</i>
	193	Pitch pine looper	<i>Lambdina athasaria pellucidaria</i>
	194	Red pine sawfly	<i>Neodiprion nanulus nanulus</i>
	195	Pine tip moth	<i>Argyrotaenia pinatubana</i>
	196	Baldcypress leafroller	<i>Archips goyerana</i>
	197	Winter moth	<i>Operophtera</i>
	198	Basswood thrips	<i>Neohydatothrips</i>
	199	Noctuid moth	<i>Xylomyges simplex (walker)</i>
	200	Pyralid moth	<i>Palpita magniferalis</i>
	201	Pacific silver fir budmoth	<i>Zeiraphera sp. destitutana</i>
13	000	Chewing Insects	
SEVERITY RATING			
1 = Minor: bottlebrush or shortened leaders, 0-2 forks on stem, OR <20% of branches affected			
2 = Severe: 3 or more forks on bole, OR 20% or more branches affected, OR terminal leader dead			
	021	Ponderosa pine tip moth	<i>Rhyacionia zozana</i>
	022	Pine needle weevil	<i>Scythropus spp.</i>
	025	Unknown	<i>Thrips madronii</i>
	030	Adana tip moth	<i>Rhyacionia adana</i>
14	000	Sucking Insects	
SEVERITY RATING			
1 = Minor: bottlebrush or shortened leaders, 0-2 forks on stem, OR <20% of branches affected			
2 = Severe: 3 or more forks on bole, OR 20% or more branches affected, OR terminal leader dead			
	002	Western larch woolly aphid	<i>Adelges oregonensis</i>
	003	Balsam woolly adelgid	<i>Adelges piceae</i>
	004	Hemlock woolly adelgid	<i>Adelges tsugae</i>
	069	Elm scurfy scale	<i>Chionaspis americana</i>
15	000	Boring Insects	
SEVERITY RATING			
1 = Minor: bottlebrush or shortened leaders, 0-2 forks on stem, OR <20% of branches affected			
2 = Severe: 3 or more forks on bole, OR 20% or more branches affected, OR terminal leader dead			
	008	Flatheaded borer	<i>Buprestidae</i>
	013	Roundheaded borer	<i>Cerambycidae</i>
	029	Western pine shoot borer	<i>Eucosma sonomana</i>
	030	Eucosma species	<i>Eucosma spp.</i>
	037	unknown	<i>Magdalis spp.</i>
	050	White pine weevil	<i>Pissodes strobi</i>
	051	Lodgepole terminal weevil	<i>Pissodes terminalis</i>
	064	Western pine tip moth	<i>Rhyacionia bushnelli</i>
	066	Lodgepole pine tip moth	<i>Rhyacionia montana</i>
	086	Sitka spruce weevil	<i>Pissodes sitchensis</i>
	087	Emerald ash borer	<i>Agrilus planipennis</i>

Damage Agents (cont.)

Category	Agent	Common Name	Scientific Name
16	000	Seed/Cone/Flower/Fruit Insects	
<u>SEVERITY RATING</u>			
1 = minor			
2 = severe			
	010	Douglas-fir cone midge	<i>Contarinia oregonensis</i>
	011	Cone scale midge	<i>Contarinia washingtonensis</i>
	049	Prairie tent caterpillar	<i>Malacosoma lutescens</i>
	050	Jack pine tip beetle	<i>Conophthorus banksianae</i>
17	000	Gallmaker Insects	
<u>SEVERITY RATING</u>			
1 = minor			
2 = severe			
18	000	Insect Predators	
<u>SEVERITY RATING</u>			
1 = minor			
2 = severe			
19	000	General Diseases	
<u>SEVERITY RATING</u>			
1 = minor			
2 = severe			
20	000	Biotic Damage	
<u>SEVERITY RATING</u>			
1 = minor			
2 = severe			
	001	Damping off	
	002	Gray mold	<i>Botrytis cinerea</i>
21	000	Root/Butt Diseases	
<u>SEVERITY RATING for trees</u>			
1 = Tree within 30 feet of tree with deteriorating crown, tree with diagnostic symptoms or signs, or tree killed by root disease			
2 = Pathogen (sign) or diagnostic symptom detected - no crown deterioration			
3 = Crown deterioration detected - no diagnostic symptoms or signs			
4 = Both crown deterioration and diagnostic signs symptoms detected			
5 = Bleeding present on bole			
6 = Bleeding present on bole and adjacent mortality present			
7 = Laboratory confirmed Sudden Oak Death			
<u>SEVERITY RATING for Setting Level</u>			
G2 = Minor evidence of RDS on plot			
G3 = RDS present, canopy reduction less than 20%			
G4 = RDS present, canopy reduction 20-30 %			
G5 = RDS present, canopy reduction 30-50%			
G6 = RDS present, canopy reduction 50-57%, most ground area infested			
G7 = RDS present, 76+% canopy reduction			
G8 = Entire area infested with RDS, one or very few susceptible overstory trees			
G9 = Entire area infested with RDS, no susceptible overstory trees present			
	001	Armillaria root disease	<i>Armillaria spp.</i>
	010	Annosus root disease	<i>Heterobasidion annosum</i>

Damage Agents (cont.)

Category	Agent	Common Name	Scientific Name
	014	Black stain root disease	<i>Ophiostoma wageneri</i>
	015	Schweinitzii butt rot	<i>Phaeolus schweinitzii</i>
	017	Laminated root rot	<i>Phellinus weirii</i>
	020	Port-Orford-cedar root disease	<i>Phytophthora lateralis</i>
22	000	Stem Decays/Cankers	
SEVERITY RATING			
0 = 0-4% rotten		4 = 36-45% rotten	
1 = 5-15% rotten		5 = 46-55% rotten	
2 = 16-25% rotten		6 = 56-65% rotten	
3 = 26-35% rotten		7 = 66-75% rotten	
	001	Heart rot	
	002	Stem rot	
	007	Atropellis canker	<i>Atropellis piniphila</i>
	026	Cytospora canker of fir	<i>Cytospora abietis</i>
	028	Rust-red stringy rot	<i>Echinodontium tinctorium</i>
	047	Red ring rot	<i>Phellinus pini</i>
	051	Phomopsis canker	<i>Phomopsis spp.</i>
	074	Cedar brown pocket rot	<i>Poria sericeomollis</i>
	075	Lachnellula canker	<i>Lachnellula flavovirens</i>
	076	Strumella canker	<i>Strumella coryneoidea</i>
	077	Phomopsis blight	<i>Phomopsis juniperovora</i>
	078	Fusarium canker of yellow poplar	<i>Fusarium solani</i>
	079	Sterile conk of maple and beech	<i>Inonotus glomeratus</i>
	080	Canker of spruce	<i>Aleurodiscus spp.</i>
	081	Birch conk	<i>Piptoporus betulinusai</i>
	082	Canker	<i>Discoainia treleasei</i>
23	000	Parasitic/Epiphytic Plants	
SEVERITY RATING			
1 = Hawksworth tree DMR rating = 1; light infection			
2 = Hawksworth tree DMR rating = 2; light infection			
3 = Hawksworth tree DMR rating = 3; medium infection			
4 = Hawksworth tree DMR rating = 4; medium infection			
5 = Hawksworth tree DMR rating = 5; heavy infection			
6 = Hawksworth tree DMR rating = 6; heavy infection			
7 = Vine damage: less than 50% of crown involved			
8 = Vine damage: 50% or more of crown involved			
	001	Mistletoe	
	006	Lodgepole pine dwarf mistletoe	<i>Arceuthobium americanum</i>
	011	Douglas-fir dwarf mistletoe	<i>Arceuthobium douglasii</i>
	013	Larch dwarf mistletoe	<i>Arceuthobium laricis</i>
	014	Western spruce dwarf mistletoe	<i>Arceuthobium microcarpum</i>
	016	Hemlock dwarf mistletoe	<i>Arceuthobium tsugense</i>
	019	White fir mistletoe	<i>Phoradendron bolleanum ssp. pauciflorum</i>
	020	True mistletoe (other)	
	022	Juniper true mistletoe	<i>Phoradendron juniperum</i>

Damage Agents (cont.)

Category	Agent	Common Name	Scientific Name
24	000	Decline Complexes/Dieback/Wilts	
SEVERITY RATING			
1 = Minor: minor crown symptoms			
2 = Severe: severe crown symptoms			
	030	Elm phloem necrosis	<i>Mycoplasma</i>
25	000	Foliage Diseases	
SEVERITY RATING			
1 = Minor: <20% of foliage affected or <20% of crown in brooms			
2 = Severe: >20% of foliage affected or >20% of crown in brooms			
	022	Elytroderma disease	<i>Elytroderma deformans</i>
	043	Swiss needle cast	<i>Phaeocryptopus gaumannii</i>
	050	Douglas-fir needle cast	<i>Rhabdocline spp.</i>
	074	Delphinella shoot blight	<i>Delphinella abietis</i>
	075	Tar spot	<i>Rhytisma acerinum</i>
SEVERITY RATING			
1 = Branch infections located greater than 2 feet from tree bole			
2 = Branch infections located between 6 inches and 2 feet from tree bole			
3 = Bole infections or branch infections located within 6 inches of bole			
4 = Topkill			
	001	White pine blister rust	<i>Cronartium ribicola</i>
	002	Western gall rust	<i>Peridermium harknessii</i>
	003	Stalactiform blister rust	<i>Cronartium coleosporioides</i>
	004	Comandra blister rust	<i>Cronartium comandrae</i>
	013	Southern cone rust	<i>Cronartium strobilinum</i>
27	000	Broom Rusts	
SEVERITY RATING			
1 = Minor: <20% of crown in brooms 2 = Severe >20% of crown in brooms			
	001	Spruce broom rust	<i>Chrysomyxa arctostaphyli</i>
	004	Fir broom rust	<i>Melampsorella caryophyllacearum</i>
30	000	Fire	
SEVERITY RATING			
1 = minor 2 = severe			
	031	Wild-fire	
	032	Human caused fire	
	033	Crown fire damage	
	034	Ground fire damage	
40	000	Animal damage, source unknown	
SEVERITY RATING			
1 = minor 2 = severe			

Damage Agents (cont.)

Category	Agent	Common Name	Scientific Name
41	000	Wild Animals	
<u>SEVERITY RATING</u>			
1 = Minor: <20% of crown affected, bole damage is <50% circumference			
2 = Severe: >20% of crown affected, bole damage is >50% circumference, upper 1/3 of crown is killed			
4 = Earthworms are present			
5 = Earthworms are absent			
	001	Bear	
	002	Beaver	
	003	Big game (deer)	
	004	Mice or voles	
	005	Pocket gophers	
	006	Porcupines	
	007	Rabbits or hares	
	008	Sapsucker	
	009	Squirrels	
	010	Woodpeckers	
	011	Moose	
	012	Elk	
	013	Deer	
	014	Feral pigs	
	015	Mountain beaver	
	016	Deer or elk	
	017	Earthworm	<i>Lumbricidae</i>
42	000	Domestic Animals	
<u>SEVERITY RATING</u>			
1 = Minor <20% of crown affected, bole damage is <50% circumference			
2 = Severe: >20% of crown affected, bole damage is >50% circumference, upper 1/3 of crown is killed			
	001	Cattle	
	002	Goats	
	003	Horses	
	004	Sheep	
50	000	Abiotic Damage	
<u>SEVERITY RATING</u>			
1 = Minor: <20% of crown affected, bole damage is <50% circumference			
2 = Severe: >20% of crown affected, bole damage is >50% circumference, upper 1/3 of crown is killed			
	001	Air pollutants	
	002	Chemical	
	003	Drought	
	004	Flooding/high water	
	005	Frost	
	006	Hail	
	007	Heat	
	008	Lightning	

Damage Agents (cont.)

Category	Agent	Common Name	Scientific Name
90	000	Unknown	
SEVERITY RATING			
0 = 0 - 9% affected			
1 = 10 - 19% affected			
2 = 20 - 29% affected			
3 = 30 - 39% affected			
4 = 40 - 49% affected			
5 = 50 - 59% affected			
6 = 60 - 69% affected			
7 = 70 - 79% affected			
8 = 80 - 89% affected			
9 = 90 - 100% affected			
99		Physical Effects	
	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.
	002	Dead top	% of total tree height that is dead
	003	Limby (large limbs top to bottom)	% of total tree height with many limbs/knots
	004	Forked top	% of total tree height above fork
	005	Forked below merch top	% of the total length of the bole affected
	006	Crook or sweep	% of total tree height, which contains the crook or sweep
	007	Checks, bole cracks	% of total tree height, which contains a crack or check
	008	Foliage discoloration	% of foliage discolored
	009	Mortality (for plantation surveys only)	1 = dead tree
	010	Lack of seed source (for plantation surveys only)	If present, 100%
	011	Poor planting stock source (for plantation surveys only)	If present, 100%
	012	Poor growth/fading/foliage is yellowing and loss of needles is occurring	1 = minor (reduced growth) 2 = severe (affecting survival)
	013	Total board foot volume loss	% of total board foot volume loss
	014	Total cubic foot volume loss	% of total cubic foot volume loss
	015	Bark removal	% of tree circumference missing bark
	016	Foliage loss	1 = minor 2 = severe
	017	Sunscauld	1 = minor 2 = severe
	018	Uproot	1 = uprooted tree

Damage Agents (cont.)

Category	Agent	Common Name	Scientific Name
	019	Scorched foliage	% of foliage scorched
	020	Scorched bark	% of bark scorched
	021	Dieback source (for plantation surveys only)	1 = minor 2 = severe
	022	Poor crown form	1 = minor 2 = severe
	023	Severe forking	% of bole with forks
	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."
	031	Broken or dead branches	% of branches broken or dead
	033	Damaged shoots, buds, or foliage (for plantation surveys only)	1 = minor 2 = severe
	034	Excessively deformed sapling	% of sapling deformed
	036	Fire scar	% of bole covered by fire scar
	037	Leaning tree	% lean from vertical
	038	Charred bark	Not recorded unless cambium is killed from heating

Tree Parts

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

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	

Sample Design Criteria

Field	Tolerance
Form Type	
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

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 Slope	± 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 if 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	

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	Height	Diameter	Trees	
	<u>Range</u>	<u>Range</u>	<u>on Point</u>	<u>Tolerance</u>
	*All	All	0	0 trees
	≤0.5 feet		1-5	± 2 trees
	≤0.5 feet		6+	± 50%
	>0.5 feet	<0.5 in.	1-5	± 1 tree
	>0.5 feet	<0.5 in.	6+	± 20%
	All	.5" - breakpoint d.b.h	1-5	± 1 tree
	All	.5" - breakpoint d.b.h.	6+	± 10%
	All	breakpoint d.b.h. +	1+	0 trees
<p>*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.</p> <p>The recording of a variable plot tree when none are present will result in an unacceptable unit.</p> <p>1/ Grouping 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 incidence of damage.</p>				
Number Stems	No Errors			
DBH/DRC	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		
Height	± 10 %			
Height to Crown	± 10 %			
Radial Growth	± 1/20 inch			
Radial Growth #2	± 1/20 inch			
Height Growth	± 1 foot	trees >6 feet		
	± 0.1 foot	trees ≤6 feet		

Tree Age	± 10% (Based on actual tree ring count at breast height for trees ≥ 3.0" DBH otherwise based on total age recorded.)	
Crown Ratio	± 10 %	
Crown Class	No Errors	
Crown width	No Errors	
Wildlife Use	No Errors	
Log/Snag Decay	No Errors	
Cone Serotiny	No Errors	
Damage Category	No Errors	
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 1/4 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 1/4 of the bole circumference or if an open wound is in contact with the ground.
Damage Agent		
Damage Part		
Damage Severity		
Tree Remarks		

Ground Surface Cover

Field	Tolerance
Plot Number	No Errors
Cover Type	No Errors
Cover Percent	± 10 Percent

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% of Height
Average Height	± 10% of Height
Maximum Height	± 10% of Height
Canopy Cover	± 10 Percent
Average Diameter	No Errors
Maturity	No Errors
Cover Remarks	
User Field	

Down Woody

Field	Tolerance
Plot Number	No Errors
First Duff	± 1/2 inch
Second Duff	± 1/2 inch
Fuel Depth	No Errors
Twigs 0 - .24	± 40%
Twigs .25 - .99	± 30%
Branch 1.0 - 2.99	± 20%
Volume 1	
Weight 1	
Volume 2	
Weight 2	
Volume 3	
Weight 3	
Volume 4	
Weight 4	
Piece Count	No missed pieces
Decay Class	No Errors
Diameter	± 1 inch on measurements
Piece Length	No Errors

APPENDIX M: GLOSSARY OF TERMS

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, for forbs and grasses, measured 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, ocularly 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 is 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 3 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.

Glossary of Terms (cont.)

Term	Definition
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, which refers to points above the earth's surface.
Fuel Bed	The fuel bed is the accumulation of dead, woody residue on the forest floor. It begins at the top of the duff layer and above. It includes litter, dead limbwood and bolewood 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 base 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. IN - The object is "in" if the measured distance is equal to or less than the subplot radius. OUT - 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.

Glossary of Terms (cont.)

Term	Definition
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.

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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.

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		Short grass (1 foot)	Grass and grass-dominated	Original 13	0.74	0	0	1
2		Timber (grass and understory)	Grass and grass-dominated	Original 13	2	1	0.500	1
3		Tall grass (2.5 feet)	Grass and grass-dominated	Original 13	3.01	0	0	2.50
4		Chaparral (6 feet)	Chaparral and shrub fields	Original 13	5.01	4.010	2	6
5		Brush (2 feet)	Chaparral and shrub fields	Original 13	1	0.500	0	2
6		Dormant brush, hardwood slash	Chaparral and shrub fields	Original 13	1.50	2.500	2	2.50
7		Southern rough	Chaparral and shrub fields	Original 13	1.13	1.870	1.500	2.50
8		Closed timber litter	Timber litter	Original 13	1.50	1	2.500	0.20
9		Hardwood litter	Timber litter	Original 13	2.92	0.410	0.150	0.20
10		Timber (litter and understory)	Timber litter	Original 13	3.01	2	5.010	1
11		Light logging slash	Slash	Original 13	1.50	4.51	5.510	1
12		Medium logging slash	Slash	Original 13	4.01	14.03	16.53	2.30
13		Heavy logging slash	Slash	Original 13	7.01	23.04	28.05	3
91	NB1	Urban/Developed	Nonburnable	Scott and Burgan	0	0	0	0
92	NB2	Snow/Ice	Nonburnable	Scott and Burgan	0	0	0	0
93	NB3	Agricultural	Nonburnable	Scott and Burgan	0	0	0	0
98	NB4	Open Water	Nonburnable	Scott and Burgan	0	0	0	0
99	NB5	Bare Ground	Nonburnable	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 Grass (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

Fuel Models (cont.)

Fuel Model	Fuel Model Code	Fuel Model Name	Fuel Type	Model Set	Fuel 1-Hr	Fuel 10-Hr	Fuel 100-Hr	Fuel Bed Depth
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	3.50	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-Shrub	Timber-Understory	Scott and Burgan	0.95	1.800	1.250	1

Fuel Models (cont.)

Fuel Model	Fuel Model Code	Fuel Model Name	Fuel Type	Model Set	Fuel 1-Hr	Fuel 10-Hr	Fuel 100-Hr	Fuel Bed Depth
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	Moderate Load Activity Fuel or Low 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

Detailed Description 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 may include clumps and may include pinyon-juniper.

Detailed Description of the Fuel Models (cont.)

Code	Detailed Description
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 contain 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 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, is 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, overmature 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 50 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 fuels models.
93	Agricultural land maintained in a nonburnable 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 or 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.

Detailed Description of the Fuel Models (cont.)

Code	Detailed Description
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 is 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 compare 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 or mostly cured.
121	The primary carrier of fire is grass and shrubs combined. Shrubs are about 1 foot high, 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 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 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 heavy 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 4-6 feet tall; some herbaceous fuel may be present. Spread rate is high; flame length very high.

Detailed Description of the Fuel Models (cont.)

Code	Detailed Description
161	The primary carrier of fire 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 with grass and shrub components. 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 load, 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 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 down 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.