

## Snag Dynamics in the PN, WC, BM, EC, and SO variants

The snag fall, snag decay, and snag height loss predictions were modified in the Region 6 variants of FFE, based on work by Kim Mellen, regional wildlife ecologist. The following estimates are now used in the BM, EC, PN, WC, and SO (Oregon portion only) variants. (The snag fall and snag decay values for the PN variant are also used in the AK variant.)

### Snag Dynamics

Documentation of Methodology Used .....	2
Snag Height Loss.....	4
Snag Decay Rates.....	6
Snag Fall Rates.....	30

### List of Tables

Table 1 – Snag height loss estimates .....	4
Table 2 – PN temperature and moisture classes by plant association .....	7
Table 3 – WC temperature and moisture classes by plant association .....	9
Table 4 – SO temperature and moisture classes by plant association .....	12
Table 5 – EC temperature and moisture classes by plant association. ....	14
Table 6 – BM temperature and moisture classes by plant association. ....	18
Table 7 – Year until soft values and adjustment factors for snag fall .....	20
Table 8 – PN soil moisture, soil depth, and slope position by plant association.....	30
Table 9 – WC soil moisture, soil depth, and slope position by plant association .....	33
Table 10 – SO soil moisture, soil depth, and slope position by plant association.....	36
Table 11 – EC soil moisture, soil depth, and slope position by plant association.....	39
Table 12 – BM soil moisture, soil depth, and slope position by plant association.....	43
Table 13 – Snag fall rates .....	45

## ***Documentation of Methodology Used***

### **CWDM Documentation (v2.0) – 2007**

Expert Panel: An expert panel was used to fill in gaps in data for many species. The panel included:

Mark Harmon – Forest Ecologist  
Tom Spies – Forest Ecologist  
Martin Raphael – Wildlife Ecologist  
Catherine Parks - Pathologist  
Bruce Hostetler - Entomologist

Grouping of species: Species were grouped based on similarity in decay characteristics. These characteristics included: susceptibility of heart wood to decay, ratio of sapwood to heart wood, bark thickness. "Focal" species was selected for each group. These species were selected primarily due to availability of empirical data. The focal species rates were then applied to other species in the group.

Snag fall and height loss: Rates were based on remeasurement data from snags on Forest Service lands. The data was collected through the Region 6 CVS program. During remeasurement, presence or absence of previously existing snags were noted and changes in height were recorded. Snags that disappeared during the remeasurement period were assumed to have fallen whole. Fall and height loss rates were averaged for size class (10-25, 25-75,  $\geq 75$  cm dbh for most species; 10-20, 20-50,  $> 50$  cm dbh for some species). Snags with evidence of root rot were not included in the fall rates; effect of root rot was considered in a later step.

These base fall rates were adjusted in relation to site characteristics using a Bayesian Belief Network (BBN). Factors in the BBN included: soil moisture, soil depth, slope position, [as determined by plant association in FVS] and presence of insect and/or disease. Conditional probabilities in the BBN, reflecting the effect of each factor, were assigned by expert panel.

Decay rates: Information on decay rates was gleaned from studies of snag and/or log decay (Graham 1981, Graham and Cromack 1982, Harmon 2004, Harmon et al. 1996, Schowalter et al. 1998). If only log decay data were available, the decay rate for snag decay was calculated based on equations developed by the expert panel. Different equations were developed for areas east and west of the Cascades [westside 1.5 times log decay rate, eastside 0.5 time log decay rate].

These base decay rates were adjusted in relation to snag and site characteristics using a BBN. Factors in the BBN included: site temperature, site moisture, snag or log size. Conditional probabilities in the BBN, reflecting the effect of each factor, were assigned by expert panel.

#### Literature cited:

Graham, R.L.L. 1982. Biomass dynamics of dead Douglas-fir and western hemlock boles in Mid-elevation forests of the Cascade Range. Ph.D. Thesis, Oregon State Univ., Corvallis, OR. 152 pp.

Graham, R. L. and K. Cromack, Jr. 1982. Mass, nutrient content, and decay rate of dead boles in rain forests of Olympic National Park. Canadian Journal of Forest Research. 12:511-521.

Harmon, Mark E., Becky Fasth, Jay M. Sexton. 2004. Bole Decomposition Rates of Seventeen Tree Species in Western U.S.A. Draft Report. Dept. Forest Science, Oregon State Univ., Corvallis. 34 pp.

Harmon, Mark E., Jay Sexton, and Becky Fasth. 1996. Decomposition rates of red and white fir in the Klamath Ranger District, Winema National Forest, Oregon. Draft Report. Unpublished report.

Schowalter, T. D., Y. L. Zhang, T. E. Sabin. 1998. Decomposition and nutrient dynamics of oak *Quercus* spp. logs after five years of decomposition. *Ecography* 21(1):3–10.

## Snag Height Loss

Some snags will lose height each year. Table 1 lists the proportion of snags losing height each year. The proportion of the snag's height that is lost is also listed.

**Table 1 – Snag height loss estimates**

Species by group	proportion snags losing ht per yr	prop lost per tree losing ht	Species used
coast redwood			western redcedar
pacific yew			western redcedar
incense-cedar			western redcedar
juniper			western redcedar
<b>western redcedar</b>	0.059	0.141	western redcedar
yellow-cedar			western redcedar
Port Orford cedar			western redcedar
<b>western white pine</b>	0.122	0.202	western white pine
sugar pine			western white pine
whitebark pine			western white pine
subalpine larch			western larch
<b>western larch</b>	0.063	0.092	western larch
<b>Douglas-fir</b>	0.075	0.219	Douglas-fir
<b>ponderosa pine</b>	0.053	0.172	Ponderosa pine
jeffrey pine			Ponderosa pine
<b>lodgepole pine</b>	0.057	0.139	lodgepole pine
knobcone pine			lodgepole pine
<b>engelmann spruce</b>	0.054	0.199	englemann spruce
sitka spruce			englemann spruce
<b>western hemlock</b>	0.122	0.225	western hemlock
<b>mountain hemlock</b>	0.106	0.262	mountain hemlock
white fir			grand fir
<b>grand fir</b>	0.072	0.277	grand fir
red fir			grand fir
<b>pacific silver fir</b>	0.133	0.199	pacific silver fir
<b>subalpine fir</b>	0.042	0.119	subalpine fir
<b>noble fir</b>	0.055	0.193	noble fir
pacific dogwood			hardwoods combined
hawthorn			hardwoods combined
bitter cherry			hardwoods combined

quaking aspen			hardwoods combined
black cottonwood	0.083	0.232	hardwoods combined
paper birch			hardwoods combined
willow			hardwoods combined
OR white oak/CA black oak			hardwoods combined
giant chinkapin/tanoak			hardwoods combined
pacific madrone			hardwoods combined
bigleaf maple			red alder
<b>red alder</b>	0.150	0.287	red alder
white alder			red alder

## ***Snag Decay Rates***

Snags in FFE originate as hard snags and decay to a soft state. Whether a snag is hard or soft depends on the time since death. The predicted number of years it takes for a snag to become soft depends on the variant, species, plant association, and dbh of the snag. The plant association is used to determine the temperature class (warm/hot, moderate, cold) and moisture class (wet, mesic, dry).

The snag decay rate depends on the size of the tree – whether it is small, medium, or large in terms of dbh. For most species, small corresponds to a dbh < 25 cm, medium corresponds to a dbh between 25 and 75 cm, and large corresponds to a dbh above 75 cm. Some species (pacific yew, juniper, whitebark pine, subalpine larch, ponderosa pine, jeffery pine, madrone, lodgepole pine, knobcone pine, subalpine fir, pacific dogwood, hawthorn, bitter cherry, quaking aspen, paper birch, willow, red and white alder), however, use slightly different dbh breakpoints of 20 cm and 50 cm.

Each snag record is categorized into one of 12 snag decay species groups:

- 1 = cedar
- 2 = douglas-fir
- 3 = ponderosa pine
- 4 = oak/madrone
- 5 = lodgepole pine
- 6 = spruce
- 7 = hemlock
- 8 = true firs
- 9 = pacific silver fir (red fir in the east-side variants)
- 10 = misc. hardwoods
- 11 = populus group
- 12 = alders

For each snag record, FFE estimates the number of years it takes a hard snag to decay and become a soft snag. In addition, an adjustment factor is also estimated that is used in the snag fall rate calculations.

Tables 2 - 6 describe the temperature class and moisture class assumed for each plant association for each variant.

**Table 2 – PN temperature and moisture classes by plant association**

Pacific Northwest ecoclasses			temperature	moisture
1	CDS221	PSME/HODI-ROGY	moderate	dry
2	CDS255	PSME/GASH	moderate	dry
3	CDS651	PSME/ARUV	moderate	dry
4	CEF321	ABLA2/LULA	cold	dry
5	CES212	ABLA2/RHAL-OLY	cold	dry
6	CES321	ABLA2/VAME-OLY	cold	dry
7	CES621	ABLA2/JUCO4	cold	dry
8	CFF111	ABAM/OXOR-OLY	cold	wet
9	CFF211	ABAM/ACTR-TIUN	moderate	dry
10	CFF311	ABAM/XETE	cold	mesic
11	CFF611	ABAM/POMU	cold	wet
12	CFF612	ABAM/POMU-OXOR	cold	wet
13	CFF911	ABAM/Dep.	cold	mesic
14	CFS156	ABAM/GASH/OXOR	cold	mesic
15	CFS211	ABAM/VAME/XETE-OLY	cold	mesic
16	CFS212	ABAM/VAAL-OLY	cold	mesic
17	CFS213	ABAM/VAAL/ERMO	cold	mesic
18	CFS214	ABAM/VAAL/XETE	cold	mesic
19	CFS215	ABAM/VAAL/TIUN	cold	mesic
20	CFS217	ABAM/VAAL/OXOR	cold	mesic
21	CFS218	ABAM/VAAL/CLUN	cold	mesic
22	CFS219	ABAM/VAAL/LIBO2	cold	mesic
23	CFS311	ABAM/OPHO-OLY	cold	wet
24	CFS611	ABAM/RHMA-OLY	cold	mesic
25	CFS612	ABAM/RHMA-VAAL	cold	mesic
26	CHF112	TSHE/OXOR-OLY	moderate	wet
27	CHF121	TSHE/OXOR-COAST	moderate	wet
28	CHF122	TSHE/POMU-COAST	moderate	mesic
29	CHF131	TSHE/POMU-OXOR-OLY	moderate	wet
30	CHF132	TSHE/POMU-TITR	moderate	wet
31	CHF211	TSHE/ACTR-OLY	moderate	mesic
32	CHF511	TSHE/XETE-OLY	moderate	dry
33	CHF911	TSHE/Dep.	moderate	mesic
34	CHM111	TSHE/LYAM-OLY	moderate	wet
35	CHS121	TSHE/BENE-COAST	moderate	mesic
36	CHS122	TSHE/BENE-GASH-COAST	moderate	mesic
37	CHS123	TSHE/GASH-COAST	moderate	dry
38	CHS131	TSHE/GASH-OLY	moderate	mesic
39	CHS132	TSHE/GASH/XETE	moderate	dry
40	CHS133	TSHE/GASH-VAOV2	moderate	mesic
41	CHS134	TSHE/GASH-HODI	moderate	dry
42	CHS136	TSHE/GASH/OXOR	moderate	mesic
43	CHS137	TSHE/GASH/POMU	moderate	mesic
44	CHS138	TSHE/BENE-OLY	moderate	mesic
45	CHS139	TSHE/BENE/POMU-OLY	moderate	mesic
46	CHS221	TSHE/ACCI-GASH-COAST	moderate	mesic

47	CHS222	TSHE/ACCI/POMU-COAST	moderate	wet
48	CHS321	TSHE/RHMA-BENE-COAST	moderate	dry
49	CHS322	TSHE/RHMA-GASH-COAST	moderate	dry
50	CHS323	TSHE/RHMA/POMU-COAST	moderate	wet
51	CHS324	TSHE/RHMA/VAOV2-COAST	moderate	dry
52	CHS331	TSHE/RHMA-OLY	moderate	mesic
53	CHS332	TSHE/RHMA/XETE-OLY	moderate	mesic
54	CHS333	TSHE/RHMA-BENE-OLY	moderate	mesic
55	CHS334	TSHE/RHMA-GASH-OLY	moderate	mesic
56	CHS335	TSHE/RHMA/POMU-OLY	moderate	mesic
57	CHS421	TSHE/RUSP-COAST	moderate	mesic
58	CHS422	TSHE/RUSP-ACCI-COAST	moderate	wet
59	CHS423	TSHE/RUSP-GASH-COAST	moderate	mesic
60	CHS512	TSHE/OPHO-OLY	moderate	wet
61	CHS521	TSHE/OPHO-COAST	moderate	wet
62	CHS610	TSHE/VAOV2-COAST	moderate	mesic
63	CHS621	TSHE/VAAL	moderate	mesic
64	CHS622	TSHE/VAAL/XETE	moderate	mesic
65	CHS623	TSHE/VAAL/OXOR-OLY	moderate	mesic
66	CHS624	TSHE/VAAL-GASH-OLY	moderate	mesic
67	CMS242	TSME/VAAL/ERMO	cold	mesic
68	CSF111	PISI/POMU-OXOR	moderate	wet
69	CSF121	PISI/POMU-COAST	moderate	wet
70	CSF321	PISI/OXOR-COAST	moderate	wet
71	CSS221	PISI/MEFE-VAPA-COAST	moderate	wet
72	CSS321	PISI/GASH-COAST	moderate	wet
73	CSS521	PISI/RUSP-COAST	moderate	wet
74	CSS522	PISI/RUSP-GASH-COAST	moderate	wet
75	CSS621	PISI/OPHO-COAST	moderate	wet



**Table 3 – WC temperature and moisture classes by plant association**

west Cascades ecoclasses			temperature	moisture
1	CAF211	TSME-ABLA2/PONE4	cold	dry
2	CAF311	TSME-ABLA2/ASLE2	cold	mesic
3	CAG211	TSME-ABLA2/FEVI	cold	mesic
4	CAG311	TSME/LUHI	cold	mesic
5	CAG312	TSME-PIAL/LUHI	cold	mesic
6	CAS211	TSME/PHEM-VADE	cold	mesic
7	CAS411	TSME-ABLA2/JUOC4	cold	dry
8	CDC711	PSME-TSHE/BENE	warm	dry
9	CDC712	PSME-TSHE/RHMA	moderate	mesic
10	CDC713	PSME-TSHE/GASH	warm	dry
11	CDS211	PSME/HODI-BENE	warm	dry
12	CDS212	PSME/HODI/GRASS	warm	dry
13	CDS213	PSME/HODI-WHMO	warm	dry
14	CDS641	PSME/SYMO-WIL	warm	dry
15	CFC251	ABAM-TSHE/RHMA-GASH	warm	dry
16	CFC311	ABAM-ABGR/SMST	warm	dry
17	CFF152	ABAM/TIUN	moderate	wet
18	CFF153	ABAM/OXOR	moderate	wet
19	CFF154	ABAM/TIUN-STRO	cold	mesic
20	CFF250	ABAM/ACTR-MBS	cold	mesic
21	CFF253	ABAM/ACTR-CLUN	moderate	mesic
22	CFF312	ABAM/XETE-MBS	cold	mesic
23	CFF450	ABAM/RUPE-BLSP	cold	mesic
24	CFM111	ABAM/LYAM	cold	wet
25	CFS110	ABAM/BENE-MBS	cold	mesic
26	CFS151	ABAM/BENE	moderate	mesic
27	CFS152	ABAM/GASH-GP	moderate	mesic
28	CFS154	ABAM/GASH-BENE	cold	mesic
29	CFS216	ABAM/VAAL-BENE	cold	mesic
30	CFS221	ABAM/VAME-VASI	cold	mesic
31	CFS222	ABAM/VAME-STRO	cold	mesic
32	CFS223	ABAM/VAME-VAAL	cold	mesic
33	CFS224	ABAM/VAME	cold	mesic
34	CFS225	ABAM/VAAL-MADI2	cold	mesic
35	CFS226	ABAM/VAAL-TIUN-MBS	cold	mesic
36	CFS229	ABAM/VAME-PYSE	cold	mesic
37	CFS230	ABAM/VAAL-GASH-MBS	cold	mesic
38	CFS231	ABAM/VAAL-POMU	cold	mesic
39	CFS251	ABAM/VAME/XETE	cold	dry
40	CFS252	ABAM/VAME-XETE-MBS	cold	mesic
41	CFS253	ABAM/VAAL/COCA	moderate	wet
42	CFS254	ABAM/MEFE	moderate	mesic
43	CFS255	ABAM/VAAL-GASH	moderate	mesic
44	CFS256	ABAM/VAME/CLUN	moderate	mesic
45	CFS257	ABAM/VAAL	moderate	mesic
46	CFS258	ABAM/VAAL-MBS	cold	mesic

47	CFS259	ABAM/VAAL-XETE-MBS	cold	mesic
48	CFS260	ABAM/VAAL-CLUN-MBS	cold	mesic
49	CFS351	ABAM/OPHO	moderate	wet
50	CFS352	ABAM/OPHO-VAAL	cold	wet
51	CFS550	ABAM/RHAL-GP	cold	wet
52	CFS551	ABAM/RHAL/XETE	cold	wet
53	CFS552	ABAM/RHAL/CLUN	cold	wet
54	CFS554	ABAM/RHAL-VAME	cold	dry
55	CFS555	ABAM/RHAL-VAAL	cold	mesic
56	CFS651	ABAM/ACCI/TIUN	moderate	wet
57	CFS652	ABAM/RHMA-BENE	cold	mesic
58	CFS653	ABAM/RHMA/XETE	cold	dry
59	CFS654	ABAM/RHMA-VAAL/COCA	cold	mesic
60	CHC212	TSHE-PSME/HODI	warm	dry
61	CHC213	TSHE-PSME-ARME	warm	dry
62	CHF111	TSHE/OXOR-WILL	moderate	wet
63	CHF123	TSHE/POMU-MTH	moderate	wet
64	CHF124	TSHE/POMU-OXOR	moderate	wet
65	CHF125	TSHE/POMU-GP	moderate	wet
66	CHF133	TSHE/POMU-GASH	moderate	mesic
67	CHF134	TSHE/POMU-BENE	moderate	mesic
68	CHF135	TSHE/POMU-TITR-MBS	moderate	wet
69	CHF151	TSHE/POMU-WILL	moderate	wet
70	CHF221	TSHE/ACTR	moderate	dry
71	CHF222	TSHE/TITR	moderate	wet
72	CHF250	TSHE/TITR-GYDR	moderate	mesic
73	CHF321	TSHE/LIBO2	moderate	mesic
74	CHF421	TSHE/ATFI	moderate	wet
75	CHM121	TSHE/LYAM	moderate	wet
76	CHS111	TSHE/GASH-WILL	warm	dry
77	CHS113	TSHE/BENE/OXOR	moderate	wet
78	CHS114	TSHE/BENE/ACTR	moderate	mesic
79	CHS124	TSHE/BENE-GASH	moderate	mesic
80	CHS125	TSHE/BENE	moderate	mesic
81	CHS126	TSHE/BENE/POMU	moderate	mesic
82	CHS127	TSHE/BENE-GASH-GP	moderate	mesic
83	CHS128	TSHE/GASH-GP	moderate	mesic
84	CHS129	TSHE/GASH-MBS	moderate	mesic
85	CHS130	TSHE/BENE-MBS	moderate	mesic
86	CHS135	TSHE/GASH-BENE	moderate	mesic
87	CHS140	TSHE/GASH-VAME	moderate	dry
88	CHS141	TSHE/BENE-CHME	moderate	mesic
89	CHS223	TSHE/ACCI/ACTR	moderate	dry
90	CHS224	TSHE/CONU/ACTR	moderate	dry
91	CHS251	TSHE/ACCI-BENE	moderate	mesic
92	CHS325	TSHE/RHMA/XETE-MTH	cold	dry
93	CHS326	TSHE/RHMA-VAAL/COCA	moderate	mesic
94	CHS327	TSHE/RHMA-GASH-MTH	moderate	dry
95	CHS328	TSHE/RHMA-BENE-MTH	moderate	dry
96	CHS351	TSHE/RHMA-GASH-WILL	warm	dry

97	CHS352	TSHE/RHMA-BENE-WILL	moderate	dry
98	CHS353	TSHE/RHMA/XETE-WILL	cold	dry
99	CHS354	TSHE/RHMA/OXOR	moderate	wet
100	CHS355	TSHE/RHMA/LIBO2	moderate	mesic
101	CHS511	TSHE/OPHO-ATFI	moderate	wet
102	CHS513	TSHE/OPHO-ATFI	moderate	wet
103	CHS522	TSHE/OPHO/OXOR	moderate	wet
104	CHS523	TSHE/OPHO/SMST	moderate	wet
105	CHS524	TSHE/OPHO/POMU	moderate	wet
106	CHS611	TSHE/VAAL-OPHO	moderate	wet
107	CHS612	TSHE/VAME/XETE	cold	dry
108	CHS613	TSHE/VAAL/OXOR	moderate	wet
109	CHS614	TSHE/VAAL-GASH	moderate	mesic
110	CHS615	TSHE/VAAL/COCA	moderate	mesic
111	CHS625	TSHE/VAAL-POMU	moderate	mesic
112	CHS626	TSHE/VAAL-BENE	moderate	mesic
113	CMF250	TSME/TIUN-STRO	cold	mesic
114	CMF251	TSME/CABI	cold	wet
115	CMS114	TSME/VASC	cold	dry
116	CMS210	TSME/VAME-GP	cold	mesic
117	CMS216	TSME/VAME/XETE	cold	dry
118	CMS218	TSME/VAME/CLUN	cold	mesic
119	CMS221	TSME/MEFE	cold	wet
120	CMS223	TSME/RHAL	cold	wet
121	CMS241	TSME/VAAL	cold	mesic
122	CMS244	TSME/VAME-VAAL	cold	mesic
123	CMS245	TSME/VAME/XETE-WASH	cold	mesic
124	CMS246	TSME/VAME-MBS	cold	mesic
125	CMS250	TSME/VAME-STRO	cold	mesic
126	CMS251	TSME/VAME-VASI	cold	mesic
127	CMS252	TSME/VAAL-STRO	cold	mesic
128	CMS253	TSME/VAAL-CLUN	cold	mesic
129	CMS254	TSME/VAME-RULA	cold	mesic
130	CMS255	TSME/VAAL-MADI2	cold	mesic
131	CMS350	TSME/PHEM-VADE	cold	mesic
132	CMS351	TSME/RHAL-VAAL	cold	mesic
133	CMS352	TSME/RHAL-VAME	cold	mesic
134	CMS353	TSME/CLPY-RUPE	cold	mesic
135	CMS450	TSME/OPHO-VAAL	cold	wet
136	CMS612	TSME/RHMA	cold	mesic
137	CWF211	ABGR/CHUM	warm	dry
138	CWS521	ABGR/ARUV	warm	dry
139	CWS522	ABGR/BENE	warm	dry

**Table 4 – SO temperature and moisture classes by plant association**

Southern Oregon ecoclasses	temperature	moisture
1 = CDS612 = PSME-ABCO/SYAL/LIBO	moderate	mesic
2 = CDS613 = PSME-ABCO/SYAL/FORB	moderate	mesic
3 = CDS614 = PSME-ABCO/SYAL/CARU	moderate	mesic
4 = CEM111 = PIEN/CAEU	cold	wet
5 = CEM221 = PIEN/EQAR-STRO	cold	wet
6 = CEM222 = PIEN/CLUN	cold	mesic
7 = CEM311 = PIEN/VAOC2-FORB	cold	wet
8 = CEM312 = PIEN/VAOC2/CAEU	cold	wet
9 = CLC111 = PICO-PIAL/PELA	cold	dry
10 = CLC112 = PICO-PIAL/ARCO2	cold	dry
11 = CLF111 = PICO/FORB	moderate	dry
12 = CLG311 = PICO/STOC-BASIN	moderate	dry
13 = CLG313 = PICO/STOC-LUCA-LINU	moderate	dry
14 = CLG314 = PICO/STOC-LUCA	moderate	dry
15 = CLG315 = PICO/FRVI-FEID	moderate	dry
16 = CLG411 = PICO/CAPE-LUCA	moderate	dry
17 = CLG412 = PICO/CAPE-LUCA-PEEU	moderate	dry
18 = CLG413 = PICO/CAPE-STOC-BASIN	moderate	dry
19 = CLG415 = PICO/SIHY-CAPE	moderate	dry
20 = CLH111 = PICO/POTR/FRVI	moderate	mesic
21 = CLM111 = PICO/CANE-ELGL-WET	moderate	wet
22 = CLM112 = PICO/POPR	moderate	mesic
23 = CLM113 = PICO/CAEU	moderate	wet
24 = CLM114 = PICO/CAAQ	moderate	wet
25 = CLM211 = PICO/ARUV	moderate	mesic
26 = CLM311 = PICO/VAOC2/FORB	moderate	wet
27 = CLM312 = PICO/VAOC2/CAEU	moderate	wet
28 = CLM313 = PICO/SPDO/FORB	moderate	mesic
29 = CLM314 = PICO/SPDO/CAEU	moderate	wet
30 = CLM411 = PICO/XETE	cold	dry
31 = CLM911 = PICO/PIEN/ELPA2	cold	wet
32 = CLS112 = PICO/ARTR-RHYO	hot	dry
33 = CLS211 = PICO/PUTR/STOC	moderate	dry
34 = CLS212 = PICO/PUTR/CAPE	moderate	dry
35 = CLS213 = PICO/PUTR/FORB	moderate	dry
36 = CLS214 = PICO/PUTR/FEID	moderate	dry
37 = CLS215 = PICO/RICE-PUTR/STOC	moderate	dry
38 = CLS216 = PICO/PUTR-RHYO	moderate	dry
39 = CLS311 = PICO/ARNE	moderate	dry
40 = CLS412 = PICO/VASC	cold	dry
41 = CLS413 = PICO/VASC-FORB	cold	dry
42 = CLS414 = PICO/VASC/CAPE	cold	dry
43 = CLS911 = PICO/CEVE-ARPA	hot	dry
44 = CMS111 = TSME/VASC-DES	cold	dry
45 = CPC211 = PIPO-JUOC/CELE/FEID	hot	dry
46 = CPF111 = PIPO/WYMO	moderate	dry

47 = CPG212 = PIPO/CAPE-FEID-LALA2	moderate	dry
48 = CPH311 = PIPO-POTR/PONE	moderate	mesic
49 = CPS111 = PIPO/PUTR-ARTR/FEID	hot	dry
50 = CPS112 = PIPO/PUTR-ARTR/SIHY	hot	dry
51 = CPS121 = PIPO/ARTR/PONE	hot	dry
52 = CPS211 = PIPO/PUTR/FEID	hot	dry
53 = CPS212 = PIPO/PUTR/STOC	hot	dry
54 = CPS213 = PIPO/PUTR-ARPA/STOC	hot	dry
55 = CPS214 = PIPO/PUTR-ARPA/CAPE	moderate	dry
56 = CPS215 = PIPO/PUTR/CAPE	moderate	dry
57 = CPS216 = PIPO/PUTR/FEID-AGSP	hot	dry
58 = CPS217 = PIPO/PUTR-ARPA/FEID	moderate	dry
59 = CPS218 = PIPO/PUTR/SIHY-RHYO	moderate	dry
60 = CPS311 = PIPO/PUTR-CEVE/STOC	moderate	dry
61 = CPS312 = PIPO/PUTR-CEVE/CAPE	moderate	dry
62 = CPS314 = PIPO/PUTR-CEVE/FEID	moderate	dry
63 = CPS511 = PIPO/SYAL-FLOOD	moderate	mesic
64 = CRG111 = ABMAS/CAPE	moderate	dry
65 = CRS111 = ABMAS/ARNE	moderate	dry
66 = CRS112 = ABMAS-TSME/ARNE/CAPE	moderate	dry
67 = CRS311 = ABMAS-ABCO/CACH-CHUM/CAPE	moderate	mesic
68 = CWC111 = ABCO-PIPO-CADE/AMAL	moderate	dry
69 = CWC211 = ABCO/CEVE-CACH/PTAQ	moderate	mesic
70 = CWC212 = ABCO/CEVE-CACH/CARU	moderate	mesic
71 = CWC213 = ABCO/CEVE/CAPE-PTAQ	moderate	mesic
72 = CWC215 = ABCO-PSME/CEVE-ARUV	moderate	mesic
73 = CWC311 = ABCO-PICO/CAPE5-STOC	moderate	dry
74 = CWC411 = ABCO-PIPO-PILA/RIVI	moderate	mesic
75 = CWC412 = ABCO-PIPO-PILA/ARPA	hot	dry
76 = CWC911 = PIEN-BOTTOMS	cold	wet
77 = CWF431 = ABCO/CLUN	moderate	mesic
78 = CWH111 = ABCO/CEVE-CACH	moderate	mesic
79 = CWH112 = ABCO/CACH-PAMY-CHUM	moderate	mesic
80 = CWH211 = ABCO-PIPO-POTR/CAPE	hot	dry
81 = CWM111 = ABCO/ALTE	moderate	wet
82 = CWS112 = ABCO/CEVE-ARPA	moderate	dry
83 = CWS113 = ABCO/CEVE-ARPA/CAPE-PEEU	moderate	dry
84 = CWS114 = ABCO/CEVE	moderate	dry
85 = CWS115 = ABCO/CEVE/CAPE	moderate	dry
86 = CWS116 = ABCO/CEVE-CEPR/FRVI	moderate	mesic
87 = CWS117 = ABCO-PIPO/ARPA-BERE	moderate	dry
88 = CWS312 = ABCO/SYAL/FRVI	moderate	mesic
89 = CWS313 = ABCO-PIPO/SYAL/STJA	moderate	mesic
90 = HQM121 = POTR/ELGL	moderate	mesic
91 = HQM411 = POTR-PICO/SPDO/CAEU	moderate	wet
92 = HQS221 = POTR/SYAL/ELGL	moderate	mesic

**Table 5 – EC temperature and moisture classes by plant association.**

East Cascades Ecoclasses			
ecoclass code	ecoclass	temperature	moisture
1:{CAG112	1 = PIAL/CARU	cold	dry
2:{CAS311	2 = PIAL/VASC/LUHI	cold	dry
3:{CCF211	3 = THPL-ABGR/ACTR	moderate	mesic
4:{CCF212	4 = THPL/ACTR	moderate	mesic
5:{CCF221	5 = THPL/CLUN	moderate	mesic
6:{CCF222	6 = THPL/ARNU3	moderate	mesic
7:{CCS211	7 = THPL/OPHO	moderate	wet
8:{CCS311	8 = THPL/VAME	moderate	mesic
9:{CDF411	9 = PSME/PEFR3	moderate	mesic
10:{CDG123	10 = PSME/ARUV-OKAN	moderate	mesic
11:{CDG131	11 = PSME/CARU-O&C	moderate	dry
12:{CDG132	12 = PSME/CAGE-WEN	moderate	dry
13:{CDG134	13 = PSME/CARU-AGSP	moderate	dry
14:{CDG141	14 = PSME/CAGE	moderate	dry
15:{CDG311	15 = PIPO-PSME/AGSP	hot	dry
16:{CDG321	16 = PSME/FOEC	moderate	mesic
17:{CDG322	17 = PSME/AGSP-WEN	moderate	dry
18:{CDG323	18 = PSME/AGSP-ASDE	moderate	dry
19:{CDS231	19 = PSME/HODI/CAGE	moderate	dry
20:{CDS241	20 = PSME/ACCI/FOEC	moderate	dry
21:{CDS411	21 = PSME/PAMY-OKAN	moderate	mesic
22:{CDS412	22 = PSME/PAMY/CARU	moderate	mesic
23:{CDS631	23 = PSME/ARUV-PUTR	moderate	dry
24:{CDS632	24 = PSME/SYOR-O&C	moderate	dry
25:{CDS633	25 = PSME/SYAL	moderate	mesic
26:{CDS636	26 = PSME/SYAL-WEN	moderate	mesic
27:{CDS637	27 = PSME/SYAL/AGSP	moderate	dry
28:{CDS638	28 = PSME/SYAL/CARU	moderate	mesic
29:{CDS639	29 = PSME/SPBEL/CARU	moderate	mesic
30:{CDS640	30 = PSME/SPBEL	moderate	mesic
31:{CDS653	31 = PSME/ARUV-WEN	moderate	mesic
32:{CDS654	32 = PSME/ARUV-PUTR	moderate	dry
33:{CDS655	33 = PSME/ARUV/CARU	moderate	mesic
34:{CDS661	34 = PSME/SYAL-MTH	moderate	mesic
35:{CDS662	35 = PSME/ARNE	moderate	mesic
36:{CDS673	36 = PSME/PUTR	moderate	dry
37:{CDS674	37 = PSME/PUTR/AGSP	moderate	dry
38:{CDS675	38 = PSME/PUTR/CARU	moderate	dry
39:{CDS715	39 = PSME/PHMA-O&C	moderate	dry
40:{CDS716	40 = PSME/PHMA-LIBOL	moderate	dry
41:{CDS811	41 = PSME/VACCI	moderate	mesic
42:{CDS813	42 = PSME/VACA-COL	moderate	mesic
43:{CDS814	43 = PSME/VAME-COLV	moderate	mesic
44:{CDS831	44 = PSME/VACA	moderate	mesic
45:{CDS832	45 = PSME/VAME-WEN	moderate	mesic

46:{CDS833	46 = PSME/VAMY/CARU	moderate	mesic
47:{CEF111	47 = ABLA2/XETE	cold	dry
48:{CEF211	48 = ABLA2/LIBOL-O&C	cold	mesic
49:{CEF222	49 = ABLA2/LIBOL-WEN	cold	mesic
50:{CEF421	50 = ABLA2/CLUN	cold	mesic
51:{CEF422	51 = ABLA2/TRCA3	cold	wet
52:{CEF423	52 = ABLA2/COCA	cold	mesic
53:{CEF424	53 = ABLA2/ARLA-POPU	cold	mesic
54:{CEG121	54 = ABLA2/LUHI-WEN	cold	mesic
55:{CEG310	55 = ABLA2/CARU-WEN	cold	dry
56:{CEG311	56 = ABLA2/CARU-O&C	cold	dry
57:{CEM211	57 = PIEN/EQAR	cold	wet
58:{CES111	58 = ABLA2/PAMY-OKAN	cold	mesic
59:{CES113	59 = ABLA2/PAMY-WEN	cold	mesic
60:{CES210	60 = ABLA2/RHAL-XETE	cold	dry
61:{CES211	61 = ABLA2/RHAL	cold	wet
62:{CES213	62 = ABLA2/RHAL/LUHI	cold	mesic
63:{CES312	63 = ABLA2/VACCI	cold	mesic
64:{CES313	64 = ABLA2/VAME-COLV	cold	mesic
65:{CES342	65 = ABLA2/VAME-WEN	cold	mesic
66:{CES412	66 = ABLA2/VASC-O&C	cold	dry
67:{CES413	67 = ABLA2/VASC/CARU-OKAN	cold	dry
68:{CES422	68 = ABLA2/VACA	cold	mesic
69:{CES423	69 = ABLA2/RULA	cold	mesic
70:{CES424	70 = ABLA2/VASC/ARLA	cold	dry
71:{CES425	71 = ABLA2/VASC/LUHI	cold	dry
72:{CES426	72 = ABLA2/VASC-WEN	cold	dry
73:{CFF162	73 = ABAM/TITRU	moderate	mesic
74:{CFF254	74 = ABAM/ACTR-WEN	moderate	mesic
75:{CFS232	75 = ABAM/VAAL-WEN	moderate	mesic
76:{CFS233	76 = ABAM/VAME/CLUN-WEN	cold	mesic
77:{CFS234	77 = ABAM/VAME-PYSE	cold	mesic
78:{CFS542	78 = ABAM/MEFE-WEN	moderate	wet
79:{CFS553	79 = ABAM/RHAL-OKAN	moderate	wet
80:{CFS556	80 = ABAM/RHAL-VAME-WEN	cold	wet
81:{CFS558	81 = ABAM/PAMY	moderate	mesic
82:{CFS621	82 = ABAM/ACCI	moderate	mesic
83:{CHC311	83 = TSHE-ABGR/CLUN	moderate	mesic
84:{CHF223	84 = TSHE/ACTR-WEN	moderate	mesic
85:{CHF311	85 = TSHE/CLUN	moderate	mesic
86:{CHF312	86 = TSHE/ARNU3	moderate	mesic
87:{CHF313	87 = TSHE/ASCA3	moderate	mesic
88:{CHF422	88 = TSHE/GYDR	moderate	mesic
89:{CHF521	89 = TSHE/XETE-COLV	moderate	dry
90:{CHS142	90 = TSHE/BENE-WEN	moderate	mesic
91:{CHS143	91 = TSHE/PAMY/CLUN	moderate	mesic
92:{CHS144	92 = TSHE/ARNE	moderate	mesic
93:{CHS225	93 = TSHE/ACCI/ACTR-WEN	moderate	mesic
94:{CHS226	94 = TSHE/ACCI/ASCA3	moderate	mesic
95:{CHS227	95 = TSHE/ACCI/CLUN	moderate	mesic

96:{CHS411	96 = TSHE/RUPE	moderate	mesic
97:{CHS711	97 = TSHE/MEFE	moderate	wet
98:{CLS521	98 = PICO/SHCA	moderate	mesic
99:{CMF131	99 = TSME/XETE-VAMY	cold	dry
100:{CMG221	100 = TSME/LUHI	cold	mesic
101:{CMS121	101 = TSME/VASC/LUHI	cold	dry
102:{CMS122	102 = TSME/RULA	cold	mesic
103:{CMS256	103 = TSME/MEFE-VAAL	cold	wet
104:{CMS257	104 = TSME/MEFE-VAME	cold	wet
105:{CMS258	105 = TSME/VAAL-WEN	cold	mesic
106:{CMS259	106 = TSME/VAME-WEN	cold	mesic
107:{CMS354	107 = TSME/PHEM-VADE	cold	mesic
108:{CMS355	108 = TSME/RHAL-VAAL	cold	wet
109:{CMS356	109 = TSME/RHAL-VAME	cold	mesic
110:{CPG141	110 = PIPO/AGSP-WEN	hot	dry
111:{CPG231	111 = PIPO/CARU-AGSP	hot	dry
112:{CPH211	112 = PIPO-QUGA/BASA	hot	dry
113:{CPH212	113 = PIPO-QUGA/PUTR	moderate	dry
114:{CPS241	114 = PIPO/PUTR/AGSP	hot	dry
115:{CWC511	115 = ABGR-PIEN/SMST	moderate	mesic
116:{CWF321	116 = ABGR/LIBO2	moderate	mesic
117:{CWF444	117 = ABGR/ARCO	moderate	mesic
118:{CWF521	118 = ABGR/TRLA2	moderate	mesic
119:{CWF522	119 = ABGR/ACTR	moderate	mesic
120:{CWF523	120 = ABGR/POPU	moderate	mesic
121:{CWF524	121 = ABGR/ACTR-WEN	moderate	mesic
122:{CWG121	122 = ABGR/CAGE	moderate	dry
123:{CWG122	123 = ABGR/CAGE-GP	moderate	dry
124:{CWG123	124 = ABGR/CARU	moderate	dry
125:{CWG124	125 = ABGR/CARU-WEN	moderate	dry
126:{CWG125	126 = ABGR/CARU-LUPIN	moderate	dry
127:{CWS214	127 = ABGR/VAME/CLUN-COL	moderate	mesic
128:{CWS221	128 = ABGR/VAME/LIBO2	moderate	mesic
129:{CWS222	129 = ABGR/VAME/CLUN	moderate	mesic
130:{CWS223	130 = ABGR/RUPA/DIHO	moderate	mesic
131:{CWS224	131 = ABGR/BENE/ACTR	moderate	mesic
132:{CWS225	132 = ABGR/BENE	moderate	mesic
133:{CWS226	133 = ABGR/BENE/CARU-WEN	moderate	mesic
134:{CWS331	134 = ABGR/SYMPH	moderate	mesic
135:{CWS332	135 = ABGR/SYMO/ACTR	moderate	mesic
136:{CWS335	136 = ABGR/SPEBL/PTAQ	moderate	mesic
137:{CWS336	137 = ABGR/SYAL/CARU	moderate	mesic
138:{CWS337	138 = ABGR/SYOR	moderate	dry
139:{CWS338	139 = ABGR/ARNE	moderate	mesic
140:{CWS421	140 = ABGR/PHMA	moderate	dry
141:{CWS422	141 = ABGR/ACGLD/CLUN	moderate	mesic
142:{CWS531	142 = ABGR/HODI	moderate	dry
143:{CWS532	143 = ABGR/ACCI/ACTR	moderate	mesic
144:{CWS533	144 = ABGR/CACH	moderate	dry
145:{CWS534	145 = ABGR/HODI-GP	moderate	dry



146:{CWS535	146 = ABGR/ACCI-BEAQ/TRLA2	moderate	mesic
147:{CWS536	147 = ABGR/COCO2/ACTR	moderate	mesic
148:{CWS537	148 = ABGR/CONU/ACTR	moderate	mesic
149:{CWS551	149 = ABGR/ACCI-WEN	moderate	mesic
150:{CWS552	150 = ABGR/ACCI-CHUM	moderate	mesic
151:{CWS553	151 = ABGR/ACCI/CLUN	moderate	mesic
152:{CWS554	152 = ABGR/HODI/CARU	moderate	dry
153:{CWS821	153 = ABGR/VACA	moderate	mesic
154:{HQG111	154 = POTR/CARU	moderate	dry
155:{HQS211	155 = POTR/SYAL	moderate	mesic

**Table 6 – BM temperature and moisture classes by plant association.**

Blue Mountains ecoclasses		
ecoclass code	temperature	moisture
{CAG111 ABLA2/CAGE}	cold	dry
{CAG4 ABLA2/STOC}	cold	dry
{CDG111 PSME/CAGE}	moderate	dry
{CDG112 PSME/CARU-BLUE}	moderate	dry
{CDG121 PSME/CARU-WALLO}	moderate	dry
{CDS611 PSME/HODI}	moderate	mesic
{CDS622 PSME/SYAL-WALLO}	moderate	dry
{CDS623}	moderate	dry
{CDS624 PSME/SYAL-BLUE}	moderate	dry
{CDS634 PSME/SPBE}	moderate	dry
{CDS711 PSME/PHMA}	moderate	dry
{CDS722 PSME/ACGL-PHMA}	moderate	mesic
{CDS821 PSME/VAME-BLUE}	moderate	dry
{CEF221 ABLA2/LIBO2-WALLO}	cold	mesic
{CEF311}	cold	wet
{CEF331 ABLA2/TRCA3}	cold	mesic
{CEF411 ALBA2/POPU}	cold	dry
{CEM111}	cold	wet
{CEM221}	cold	wet
{CEM222}	cold	mesic
{CEM311}	cold	wet
{CEM312}	cold	wet
{CES131 ABLA2/CLUN-WALLO}	cold	mesic
{CES221 ABLA2/MEFE}	cold	mesic
{CES311 ABLA2/VAME-BLUE}	cold	mesic
{CES314 ABLA2/CLUN-BLUE}	cold	mesic
{CES315 ABLA2/VAME-WALLO}	cold	mesic
{CES411 ABLA2/VASC-BLUE}	cold	dry
{CES414 ABLA2/LIBO2-BLUE}	cold	mesic
{CES415 ABLA2/VASC/POPU}	cold	dry
{CLF211}	moderate	mesic
{CLG211}	cold	dry
{CLM112}	cold	dry
{CLM113}	moderate	wet
{CLM114}	cold	wet
{CLM312}	moderate	wet
{CLM313}	moderate	mesic
{CLM314}	moderate	wet
{CLM911}	cold	mesic
{CLS411}	cold	dry
{CLS415}	cold	dry
{CLS416 PICO/CARU}	moderate	dry
{CLS5 PICO(ABGR)VAME-LIBO2}	moderate	mesic
{CLS511}	moderate	mesic
{CLS515}	moderate	mesic

{CLS6 PICO(ABGR)/ALSI}	moderate	mesic
{CMS131 TSME/VASC-WALLO}	cold	dry
{CMS231 TSME/VAME-WALLO}	cold	dry
{CPG111 PIPO/AGSP-BLUE}	hot	dry
{CPG112 PIPO/FEID-BLUE}	hot	dry
{CPG131 PIPO/FEID-WALLO}	hot	dry
{CPG132 PIPO/AGSP-WALLO}	hot	dry
{CPG221 PIPO/CARU}	moderate	dry
{CPG222 PIPO/CAGE}	moderate	dry
{CPM111}	moderate	dry
{CPS131 PIPO/ARTRV/FEID-AGSP}	hot	dry
{CPS221 PIPO/PUTR/CARO}	moderate	dry
{CPS222 PIPO/PUTR/CAGE}	moderate	dry
{CPS226 PIPO/PUTR/FEID-AGSP}	hot	dry
{CPS232 PIPO/CELE/CAGE}	moderate	dry
{CPS233 PIPO/CELE/PONE}	hot	dry
{CPS234 PIPO/CELE/FEID-AGSP}	hot	dry
{CPS511}	hot	dry
{CPS522 PIPO/SYAL-WALLO}	moderate	dry
{CPS523}	moderate	dry
{CPS524 PIPO/SYAL-BLUE}	moderate	dry
{CPS525 PIPO/SYOR}	moderate	dry
{CWC811 ABGR/TABR/CLUN-BLUE}	moderate	wet
{CWC812 ABGR/TABR/LIBO2}	moderate	wet
{CWF311 ABGR/LIBO2-WALLO}	moderate	mesic
{CWF312 ABGR/LIBO2-BLUE}	moderate	mesic
{CWF421 ABGR/CLUN}	moderate	mesic
{CWF431}	moderate	mesic
{CWF512 ABGR/TRCA3}	moderate	wet
{CWF611 ABGR/GYDR}	moderate	wet
{CWF612 ABGR/POMU-ASCA3}	moderate	wet
{CWG111 ABGR/CAGE}	moderate	dry
{CWG112}	moderate	dry
{CWG113 ABGR/CARU-BLUE}	moderate	dry
{CWG211 ABGR/BRVU}	moderate	mesic
{CWS211 ABGR/VAME-WALLO}	moderate	mesic
{CWS212 ABGR/VAME-BLUE}	moderate	mesic
{CWS321}	moderate	dry
{CWS322 ABGR/SPBE-BLUE}	moderate	dry
{CWS412}	moderate	mesic
{CWS541 ABGR/ACGL-BLUE}	moderate	wet
{CWS811 ABGR/VASC}	cold	dry
{CWS812 ABGR/VASC-LIBO2}	moderate	mesic
{CWS912 ABGR/ACGL-WALLO}	moderate	wet
{HQM121}	moderate	mesic
{HQM411}	moderate	mesic
{HQS221}	hot	mesic

Table 7 lists the snag decay rates for the different variants.

**Table 7 – Year until soft values and adjustment factors for snag fall**

Species group	Temp. group	Moist. group	Snag dbh	EC / BM/ SO		PN		WC	
				Years to decay from hard to soft w/ lag	Decay Rate Adjustment for snag fall	Years to decay from hard to soft w/ lag	Decay Rate Adjustment for snag fall	Years to decay from hard to soft w/ lag	Decay Rate Adjustment for snag fall
cedar	Warm / Hot	Wet	Small	184	decrease	36	increase	36	increase
cedar	Warm / Hot	Wet	Medium	185	decrease	42	increase	42	increase
cedar	Warm / Hot	Wet	Large	246	decrease	46	increase	46	increase
cedar	Warm / Hot	Mesic	Small	184	decrease	36	increase	36	increase
cedar	Warm / Hot	Mesic	Medium	185	decrease	42	increase	42	increase
cedar	Warm / Hot	Mesic	Large	246	decrease	46	increase	46	increase
cedar	Warm / Hot	Dry	Small	184	decrease	36	increase	36	increase
cedar	Warm / Hot	Dry	Medium	185	decrease	42	increase	49	increase
cedar	Warm / Hot	Dry	Large	246	decrease	46	increase	73	increase
cedar	Moderate	Wet	Small	93	increase	36	increase	36	increase
cedar	Moderate	Wet	Medium	125	increase	70	none	70	none
cedar	Moderate	Wet	Large	185	none	94	decrease	94	decrease
cedar	Moderate	Mesic	Small	124	increase	36	increase	36	increase
cedar	Moderate	Mesic	Medium	185	none	70	none	70	none
cedar	Moderate	Mesic	Large	246	decrease	94	decrease	94	decrease
cedar	Moderate	Dry	Small	184	none	36	increase	41	increase
cedar	Moderate	Dry	Medium	185	decrease	70	none	70	decrease
cedar	Moderate	Dry	Large	246	decrease	94	decrease	94	decrease
cedar	Cold	Wet	Small	105	increase	69	none	69	none
cedar	Cold	Wet	Medium	125	increase	76	decrease	76	decrease
cedar	Cold	Wet	Large	125	increase	94	decrease	94	decrease
cedar	Cold	Mesic	Small	124	increase	69	none	69	none
cedar	Cold	Mesic	Medium	125	increase	76	decrease	76	decrease
cedar	Cold	Mesic	Large	185	none	94	decrease	94	decrease
cedar	Cold	Dry	Small	184	decrease	69	none	69	none
cedar	Cold	Dry	Medium	185	decrease	76	decrease	76	decrease
cedar	Cold	Dry	Large	246	decrease	94	decrease	94	decrease
Douglas-fir	Warm / Hot	Wet	Small	86	decrease	21	increase	21	increase
Douglas-fir	Warm / Hot	Wet	Medium	96	decrease	25	increase	25	increase
Douglas-fir	Warm / Hot	Wet	Large	107	decrease	27	increase	27	increase
Douglas-fir	Warm / Hot	Mesic	Small	95	decrease	21	increase	21	increase
Douglas-fir	Warm / Hot	Mesic	Medium	96	decrease	25	increase	25	increase
Douglas-fir	Warm / Hot	Mesic	Large	107	decrease	27	increase	27	increase
Douglas-fir	Warm / Hot	Dry	Small	95	decrease	21	increase	21	increase
Douglas-fir	Warm / Hot	Dry	Medium	96	decrease	25	increase	28	increase
Douglas-fir	Warm / Hot	Dry	Large	107	decrease	27	increase	38	increase
Douglas-fir	Moderate	Wet	Small	46	increase	21	increase	21	increase
Douglas-fir	Moderate	Wet	Medium	63	increase	40	none	40	none

Douglas-fir	Moderate	Wet	Large	87	none	52	decrease	52	decrease
Douglas-fir	Moderate	Mesic	Small	58	increase	21	increase	21	increase
Douglas-fir	Moderate	Mesic	Medium	87	none	40	none	40	none
Douglas-fir	Moderate	Mesic	Large	107	decrease	52	decrease	52	decrease
Douglas-fir	Moderate	Dry	Small	86	none	21	increase	24	increase
Douglas-fir	Moderate	Dry	Medium	87	decrease	40	none	41	decrease
Douglas-fir	Moderate	Dry	Large	107	decrease	52	decrease	52	decrease
Douglas-fir	Cold	Wet	Small	54	increase	39	none	39	none
Douglas-fir	Cold	Wet	Medium	55	increase	45	decrease	45	decrease
Douglas-fir	Cold	Wet	Large	63	increase	52	decrease	52	decrease
Douglas-fir	Cold	Mesic	Small	54	increase	39	none	39	none
Douglas-fir	Cold	Mesic	Medium	63	increase	45	decrease	45	decrease
Douglas-fir	Cold	Mesic	Large	87	none	52	decrease	52	decrease
Douglas-fir	Cold	Dry	Small	95	decrease	39	none	39	none
Douglas-fir	Cold	Dry	Medium	96	decrease	45	decrease	45	decrease
Douglas-fir	Cold	Dry	Large	107	decrease	52	decrease	52	decrease
ponderosa pine	Warm / Hot	Wet	Small	54	decrease	12	increase	12	increase
ponderosa pine	Warm / Hot	Wet	Medium	53	decrease	13	increase	13	increase
ponderosa pine	Warm / Hot	Wet	Large	147	decrease	28	increase	28	increase
ponderosa pine	Warm / Hot	Mesic	Small	54	decrease	12	increase	12	increase
ponderosa pine	Warm / Hot	Mesic	Medium	53	decrease	13	increase	13	increase
ponderosa pine	Warm / Hot	Mesic	Large	147	decrease	28	increase	28	increase
ponderosa pine	Warm / Hot	Dry	Small	58	decrease	12	increase	12	increase
ponderosa pine	Warm / Hot	Dry	Medium	53	decrease	14	increase	14	increase
ponderosa pine	Warm / Hot	Dry	Large	147	decrease	40	increase	40	increase
ponderosa pine	Moderate	Wet	Small	33	increase	12	increase	12	increase
ponderosa pine	Moderate	Wet	Medium	36	increase	20	none	20	none
ponderosa pine	Moderate	Wet	Large	123	none	53	decrease	53	decrease
ponderosa pine	Moderate	Mesic	Small	34	increase	12	increase	12	increase
ponderosa pine	Moderate	Mesic	Medium	50	none	20	none	20	none
ponderosa pine	Moderate	Mesic	Large	147	decrease	53	decrease	53	decrease
ponderosa pine	Moderate	Dry	Small	51	none	14	increase	14	increase
ponderosa pine	Moderate	Dry	Medium	53	decrease	21	decrease	21	decrease
ponderosa pine	Moderate	Dry	Large	147	decrease	53	decrease	53	decrease
ponderosa pine	Cold	Wet	Small	32	increase	21	none	21	none

ponderosa pine	Cold	Wet	Medium	33	increase	23	decrease	23	decrease
ponderosa pine	Cold	Wet	Large	92	increase	53	decrease	53	decrease
ponderosa pine	Cold	Mesic	Small	33	increase	21	none	21	none
ponderosa pine	Cold	Mesic	Medium	36	increase	23	decrease	23	decrease
ponderosa pine	Cold	Mesic	Large	123	none	53	decrease	53	decrease
ponderosa pine	Cold	Dry	Small	54	decrease	21	none	21	none
ponderosa pine	Cold	Dry	Medium	53	decrease	23	decrease	23	decrease
ponderosa pine	Cold	Dry	Large	147	decrease	53	decrease	53	decrease
oak/madrone	Warm / Hot	Wet	Small	43	decrease	5	increase	5	increase
oak/madrone	Warm / Hot	Wet	Medium	44	decrease	7	increase	7	increase
oak/madrone	Warm / Hot	Wet	Large	53	decrease	7	increase	7	increase
oak/madrone	Warm / Hot	Mesic	Small	46	decrease	5	increase	5	increase
oak/madrone	Warm / Hot	Mesic	Medium	47	decrease	7	increase	7	increase
oak/madrone	Warm / Hot	Mesic	Large	53	decrease	7	increase	7	increase
oak/madrone	Warm / Hot	Dry	Small	46	decrease	5	increase	5	increase
oak/madrone	Warm / Hot	Dry	Medium	47	decrease	7	increase	7	increase
oak/madrone	Warm / Hot	Dry	Large	53	decrease	7	increase	10	increase
oak/madrone	Moderate	Wet	Small	22	increase	5	increase	5	increase
oak/madrone	Moderate	Wet	Medium	31	increase	10	none	10	none
oak/madrone	Moderate	Wet	Large	42	none	13	decrease	13	decrease
oak/madrone	Moderate	Mesic	Small	27	increase	5	increase	5	increase
oak/madrone	Moderate	Mesic	Medium	42	none	10	none	10	none
oak/madrone	Moderate	Mesic	Large	53	decrease	13	decrease	13	decrease
oak/madrone	Moderate	Dry	Small	41	none	5	increase	6	increase
oak/madrone	Moderate	Dry	Medium	44	decrease	10	none	11	decrease
oak/madrone	Moderate	Dry	Large	53	decrease	13	decrease	13	decrease
oak/madrone	Cold	Wet	Small	25	increase	9	none	9	none
oak/madrone	Cold	Wet	Medium	27	increase	11	decrease	11	decrease

oak/ madrone	Cold	Wet	Large	31	increase	13	decrease	13	decrease
oak/ madrone	Cold	Mesic	Small	26	increase	9	none	9	none
oak/ madrone	Cold	Mesic	Medium	31	increase	11	decrease	11	decrease
oak/ madrone	Cold	Mesic	Large	42	none	13	decrease	13	decrease
oak/ madrone	Cold	Dry	Small	43	decrease	9	none	9	none
oak/ madrone	Cold	Dry	Medium	44	decrease	11	decrease	11	decrease
oak/ madrone	Cold	Dry	Large	53	decrease	13	decrease	13	decrease
lodgepole pine	Warm / Hot	Wet	Small	39	decrease	11	increase	11	increase
lodgepole pine	Warm / Hot	Wet	Medium	40	decrease	13	increase	13	increase
lodgepole pine	Warm / Hot	Wet	Large	49	decrease	14	increase	14	increase
lodgepole pine	Warm / Hot	Mesic	Small	41	decrease	11	increase	11	increase
lodgepole pine	Warm / Hot	Mesic	Medium	42	decrease	13	increase	13	increase
lodgepole pine	Warm / Hot	Mesic	Large	49	decrease	14	increase	14	increase
lodgepole pine	Warm / Hot	Dry	Small	43	decrease	11	increase	11	increase
lodgepole pine	Warm / Hot	Dry	Medium	42	decrease	13	increase	14	increase
lodgepole pine	Warm / Hot	Dry	Large	49	decrease	14	increase	19	increase
lodgepole pine	Moderate	Wet	Small	21	increase	11	increase	11	increase
lodgepole pine	Moderate	Wet	Medium	29	increase	20	none	20	none
lodgepole pine	Moderate	Wet	Large	38	none	25	decrease	25	decrease
lodgepole pine	Moderate	Mesic	Small	25	increase	11	increase	11	increase
lodgepole pine	Moderate	Mesic	Medium	38	none	20	none	20	none
lodgepole pine	Moderate	Mesic	Large	49	decrease	25	decrease	25	decrease
lodgepole pine	Moderate	Dry	Small	37	none	11	increase	12	increase
lodgepole pine	Moderate	Dry	Medium	40	decrease	20	none	19	decrease
lodgepole pine	Moderate	Dry	Large	49	decrease	25	decrease	25	decrease
lodgepole pine	Cold	Wet	Small	24	increase	19	none	19	none
lodgepole pine	Cold	Wet	Medium	26	increase	22	decrease	22	decrease
lodgepole pine	Cold	Wet	Large	29	increase	25	decrease	25	decrease

lodgepole pine	Cold	Mesic	Small	24	increase	19	none	19	none
lodgepole pine	Cold	Mesic	Medium	29	increase	22	decrease	22	decrease
lodgepole pine	Cold	Mesic	Large	38	none	25	decrease	25	decrease
lodgepole pine	Cold	Dry	Small	41	decrease	19	none	19	none
lodgepole pine	Cold	Dry	Medium	42	decrease	22	decrease	22	decrease
lodgepole pine	Cold	Dry	Large	49	decrease	25	decrease	25	decrease
spruce	Warm / Hot	Wet	Small	58	decrease	16	increase	32	increase
spruce	Warm / Hot	Wet	Medium	59	decrease	19	increase	34	increase
spruce	Warm / Hot	Wet	Large	68	decrease	21	increase	38	increase
spruce	Warm / Hot	Mesic	Small	58	decrease	16	increase	32	increase
spruce	Warm / Hot	Mesic	Medium	59	decrease	19	increase	34	increase
spruce	Warm / Hot	Mesic	Large	68	decrease	21	increase	38	increase
spruce	Warm / Hot	Dry	Small	63	decrease	16	increase	32	increase
spruce	Warm / Hot	Dry	Medium	59	decrease	19	increase	38	increase
spruce	Warm / Hot	Dry	Large	68	decrease	21	increase	52	increase
spruce	Moderate	Wet	Small	29	increase	16	increase	32	increase
spruce	Moderate	Wet	Medium	40	increase	30	none	55	none
spruce	Moderate	Wet	Large	55	none	40	decrease	68	decrease
spruce	Moderate	Mesic	Small	37	increase	16	increase	32	increase
spruce	Moderate	Mesic	Medium	55	none	30	none	55	none
spruce	Moderate	Mesic	Large	68	decrease	40	decrease	68	decrease
spruce	Moderate	Dry	Small	54	none	16	increase	33	increase
spruce	Moderate	Dry	Medium	59	decrease	30	none	59	decrease
spruce	Moderate	Dry	Large	68	decrease	40	decrease	68	decrease
spruce	Cold	Wet	Small	34	increase	29	none	54	none
spruce	Cold	Wet	Medium	38	increase	34	decrease	64	decrease
spruce	Cold	Wet	Large	40	increase	40	decrease	68	decrease
spruce	Cold	Mesic	Small	37	increase	29	none	54	none
spruce	Cold	Mesic	Medium	40	increase	34	decrease	64	decrease
spruce	Cold	Mesic	Large	55	none	40	decrease	68	decrease
spruce	Cold	Dry	Small	58	decrease	29	none	54	none
spruce	Cold	Dry	Medium	59	decrease	34	decrease	64	decrease
spruce	Cold	Dry	Large	68	decrease	40	decrease	68	decrease
hemlock	Warm / Hot	Wet	Small	55	decrease	11	increase	11	increase
hemlock	Warm / Hot	Wet	Medium	56	decrease	13	increase	13	increase
hemlock	Warm / Hot	Wet	Large	67	decrease	14	increase	14	increase
hemlock	Warm / Hot	Mesic	Small	55	decrease	11	increase	11	increase
hemlock	Warm / Hot	Mesic	Medium	56	decrease	13	increase	13	increase
hemlock	Warm / Hot	Mesic	Large	67	decrease	14	increase	14	increase
hemlock	Warm / Hot	Dry	Small	61	decrease	11	increase	11	increase
hemlock	Warm / Hot	Dry	Medium	56	decrease	13	increase	14	increase
hemlock	Warm / Hot	Dry	Large	67	decrease	14	increase	19	increase
hemlock	Moderate	Wet	Small	28	increase	11	increase	11	increase
hemlock	Moderate	Wet	Medium	40	increase	20	none	20	none
hemlock	Moderate	Wet	Large	54	none	25	decrease	25	decrease
hemlock	Moderate	Mesic	Small	35	increase	11	increase	11	increase



hemlock	Moderate	Mesic	Medium	54	none	20	none	20	none
hemlock	Moderate	Mesic	Large	67	decrease	25	decrease	25	decrease
hemlock	Moderate	Dry	Small	53	none	11	increase	12	increase
hemlock	Moderate	Dry	Medium	56	decrease	20	none	20	decrease
hemlock	Moderate	Dry	Large	67	decrease	25	decrease	25	decrease
hemlock	Cold	Wet	Small	32	increase	19	none	19	none
hemlock	Cold	Wet	Medium	36	increase	22	decrease	17	decrease
hemlock	Cold	Wet	Large	40	increase	25	decrease	25	decrease
hemlock	Cold	Mesic	Small	32	increase	19	none	19	none
hemlock	Cold	Mesic	Medium	40	increase	22	decrease	17	decrease
hemlock	Cold	Mesic	Large	54	none	25	decrease	25	decrease
hemlock	Cold	Dry	Small	55	decrease	19	none	19	none
hemlock	Cold	Dry	Medium	56	decrease	22	decrease	17	decrease
hemlock	Cold	Dry	Large	67	decrease	25	decrease	25	decrease
true firs	Warm / Hot	Wet	Small	45	decrease	7	increase	7	increase
true firs	Warm / Hot	Wet	Medium	46	decrease	9	increase	9	increase
true firs	Warm / Hot	Wet	Large	55	decrease	9	increase	9	increase
true firs	Warm / Hot	Mesic	Small	48	decrease	7	increase	7	increase
true firs	Warm / Hot	Mesic	Medium	49	decrease	9	increase	9	increase
true firs	Warm / Hot	Mesic	Large	55	decrease	9	increase	9	increase
true firs	Warm / Hot	Dry	Small	48	decrease	7	increase	7	increase
true firs	Warm / Hot	Dry	Medium	49	decrease	9	increase	10	increase
true firs	Warm / Hot	Dry	Large	55	decrease	9	increase	12	increase
true firs	Moderate	Wet	Small	24	increase	7	increase	7	increase
true firs	Moderate	Wet	Medium	33	increase	12	none	12	none
true firs	Moderate	Wet	Large	44	none	15	decrease	15	decrease
true firs	Moderate	Mesic	Small	29	increase	7	increase	7	increase
true firs	Moderate	Mesic	Medium	44	none	12	none	12	none
true firs	Moderate	Mesic	Large	55	decrease	15	decrease	15	decrease
true firs	Moderate	Dry	Small	43	none	7	increase	8	increase
true firs	Moderate	Dry	Medium	46	decrease	12	none	13	decrease
true firs	Moderate	Dry	Large	55	decrease	15	decrease	15	decrease
true firs	Cold	Wet	Small	27	increase	11	none	11	none
true firs	Cold	Wet	Medium	29	increase	14	decrease	14	decrease
true firs	Cold	Wet	Large	33	increase	15	decrease	15	decrease
true firs	Cold	Mesic	Small	28	increase	11	none	11	none
true firs	Cold	Mesic	Medium	33	increase	14	decrease	14	decrease
true firs	Cold	Mesic	Large	44	none	15	decrease	15	decrease
true firs	Cold	Dry	Small	45	decrease	11	none	11	none
true firs	Cold	Dry	Medium	46	decrease	14	decrease	14	decrease
true firs	Cold	Dry	Large	55	decrease	15	decrease	15	decrease
pacific silver fir / red fir	Warm / Hot	Wet	Small	36	decrease	7	increase	4	increase
pacific silver fir / red fir	Warm / Hot	Wet	Medium	40	decrease	9	increase	4.4	increase
pacific silver fir / red fir	Warm / Hot	Wet	Large	46	decrease	10	increase	4	increase

pacific silver fir / red fir	Warm / Hot	Mesic	Small	39	decrease	7	increase	4	increase
pacific silver fir / red fir	Warm / Hot	Mesic	Medium	40	decrease	9	increase	4.4	increase
pacific silver fir / red fir	Warm / Hot	Mesic	Large	46	decrease	10	increase	4	increase
pacific silver fir / red fir	Warm / Hot	Dry	Small	41	decrease	7	increase	4	increase
pacific silver fir / red fir	Warm / Hot	Dry	Medium	40	decrease	9	increase	3.98	increase
pacific silver fir / red fir	Warm / Hot	Dry	Large	46	decrease	10	increase	3.1	increase
pacific silver fir / red fir	Moderate	Wet	Small	20	increase	7	increase	4	increase
pacific silver fir / red fir	Moderate	Wet	Medium	27	increase	13	none	3	increase
pacific silver fir / red fir	Moderate	Wet	Large	37	none	16	decrease	1	increase
pacific silver fir / red fir	Moderate	Mesic	Small	25	increase	7	increase	4	increase
pacific silver fir / red fir	Moderate	Mesic	Medium	37	none	13	none	3	increase
pacific silver fir / red fir	Moderate	Mesic	Large	46	decrease	16	decrease	1	increase
pacific silver fir / red fir	Moderate	Dry	Small	36	none	7	increase	3.4	increase
pacific silver fir / red fir	Moderate	Dry	Medium	37	decrease	13	none	2.7	increase
pacific silver fir / red fir	Moderate	Dry	Large	46	decrease	16	decrease	1	increase
pacific silver fir / red fir	Cold	Wet	Small	23	increase	12	none	2	increase
pacific silver fir / red fir	Cold	Wet	Medium	25	increase	14	decrease	2	increase
pacific silver fir / red fir	Cold	Wet	Large	27	increase	16	decrease	1	increase
pacific silver fir / red fir	Cold	Mesic	Small	23	increase	12	none	2	increase

red fir									
pacific silver fir / red fir	Cold	Mesic	Medium	27	increase	14	decrease	2	increase
pacific silver fir / red fir	Cold	Mesic	Large	37	none	16	decrease	1	increase
pacific silver fir / red fir	Cold	Dry	Small	39	decrease	12	none	2	increase
pacific silver fir / red fir	Cold	Dry	Medium	40	decrease	14	decrease	2	increase
pacific silver fir / red fir misc.	Cold	Dry	Large	46	decrease	16	decrease	1	increase
hardwoods misc.	Warm / Hot	Wet	Small	25	decrease	4	increase	4	increase
hardwoods misc.	Warm / Hot	Wet	Medium	26	decrease	6	increase	6	increase
hardwoods misc.	Warm / Hot	Wet	Large	33	decrease	7	increase	7	increase
hardwoods misc.	Warm / Hot	Mesic	Small	27	decrease	4	increase	4	increase
hardwoods misc.	Warm / Hot	Mesic	Medium	28	decrease	6	increase	6	increase
hardwoods misc.	Warm / Hot	Mesic	Large	33	decrease	7	increase	7	increase
hardwoods misc.	Warm / Hot	Dry	Small	28	decrease	4	increase	4	increase
hardwoods misc.	Warm / Hot	Dry	Medium	28	decrease	6	increase	7	increase
hardwoods misc.	Warm / Hot	Dry	Large	33	decrease	7	increase	9	increase
hardwoods misc.	Moderate	Wet	Small	13	increase	4	increase	4	increase
hardwoods misc.	Moderate	Wet	Medium	19	increase	10	none	10	none
hardwoods misc.	Moderate	Wet	Large	26	none	12	decrease	12	decrease
hardwoods misc.	Moderate	Mesic	Small	16	increase	4	increase	4	increase
hardwoods misc.	Moderate	Mesic	Medium	26	none	10	none	10	none
hardwoods misc.	Moderate	Mesic	Large	33	decrease	12	decrease	12	decrease
hardwoods misc.	Moderate	Dry	Small	25	none	4	increase	5	increase
hardwoods misc.	Moderate	Dry	Medium	26	decrease	10	none	10	decrease
hardwoods misc.	Moderate	Dry	Large	33	decrease	12	decrease	12	decrease
hardwoods misc.	Cold	Wet	Small	15	increase	9	none	9	none
hardwoods misc.	Cold	Wet	Medium	17	increase	11	decrease	11	decrease

hardwoods									
misc.									
hardwoods	Cold	Wet	Large	19	increase	12	decrease	12	decrease
misc.									
hardwoods	Cold	Mesic	Small	16	increase	9	none	9	none
misc.									
hardwoods	Cold	Mesic	Medium	19	increase	11	decrease	11	decrease
misc.									
hardwoods	Cold	Mesic	Large	26	none	12	decrease	12	decrease
misc.									
hardwoods	Cold	Dry	Small	25	decrease	9	none	9	none
misc.									
hardwoods	Cold	Dry	Medium	26	decrease	11	decrease	11	decrease
misc.									
hardwoods	Cold	Dry	Large	33	decrease	12	decrease	12	decrease
populus	Warm / Hot	Wet	Small	24	decrease	4	increase	4	increase
populus	Warm / Hot	Wet	Medium	26	decrease	6	increase	6	increase
populus	Warm / Hot	Wet	Large	36	decrease	7	increase	7	increase
populus	Warm / Hot	Mesic	Small	26	decrease	4	increase	4	increase
populus	Warm / Hot	Mesic	Medium	27	decrease	6	increase	6	increase
populus	Warm / Hot	Mesic	Large	36	decrease	7	increase	7	increase
populus	Warm / Hot	Dry	Small	27	decrease	4	increase	4	increase
populus	Warm / Hot	Dry	Medium	27	decrease	6	increase	7	increase
populus	Warm / Hot	Dry	Large	36	decrease	7	increase	9	increase
populus	Moderate	Wet	Small	13	increase	4	increase	4	increase
populus	Moderate	Wet	Medium	18	increase	9	none	10	none
populus	Moderate	Wet	Large	25	none	12	decrease	12	decrease
populus	Moderate	Mesic	Small	16	increase	4	increase	4	increase
populus	Moderate	Mesic	Medium	25	none	9	none	10	none
populus	Moderate	Mesic	Large	36	decrease	12	decrease	12	decrease
populus	Moderate	Dry	Small	24	none	4	increase	5	increase
populus	Moderate	Dry	Medium	25	decrease	9	none	10	decrease
populus	Moderate	Dry	Large	36	decrease	12	decrease	12	decrease
populus	Cold	Wet	Small	15	increase	9	none	9	none
populus	Cold	Wet	Medium	16	increase	10	decrease	10	decrease
populus	Cold	Wet	Large	18	increase	12	decrease	12	decrease
populus	Cold	Mesic	Small	15	increase	9	none	9	none
populus	Cold	Mesic	Medium	18	increase	10	decrease	10	decrease
populus	Cold	Mesic	Large	25	none	12	decrease	12	decrease
populus	Cold	Dry	Small	25	decrease	9	none	9	none
populus	Cold	Dry	Medium	26	decrease	10	decrease	10	decrease
populus	Cold	Dry	Large	36	decrease	12	decrease	12	decrease
alder	Warm / Hot	Wet	Small	17	decrease	3	increase	3	increase
alder	Warm / Hot	Wet	Medium	18	decrease	5	increase	5	increase
alder	Warm / Hot	Wet	Large	23	decrease	5	increase	5	increase
alder	Warm / Hot	Mesic	Small	18	decrease	3	increase	3	increase
alder	Warm / Hot	Mesic	Medium	19	decrease	5	increase	5	increase
alder	Warm / Hot	Mesic	Large	23	decrease	5	increase	5	increase
alder	Warm / Hot	Dry	Small	18	decrease	3	increase	3	increase
alder	Warm / Hot	Dry	Medium	19	decrease	5	increase	5	increase
alder	Warm / Hot	Dry	Large	23	decrease	5	increase	6	increase
alder	Moderate	Wet	Small	9	increase	3	increase	3	increase

alder	Moderate	Wet	Medium	13	increase	7	none	7	none
alder	Moderate	Wet	Large	17	none	9	decrease	9	decrease
alder	Moderate	Mesic	Small	11	increase	3	increase	3	increase
alder	Moderate	Mesic	Medium	17	none	7	none	7	none
alder	Moderate	Mesic	Large	23	decrease	9	decrease	9	decrease
alder	Moderate	Dry	Small	16	none	3	increase	4	increase
alder	Moderate	Dry	Medium	18	decrease	7	none	7	decrease
alder	Moderate	Dry	Large	23	decrease	9	decrease	9	decrease
alder	Cold	Wet	Small	10	increase	6	none	6	none
alder	Cold	Wet	Medium	12	increase	7	decrease	7	decrease
alder	Cold	Wet	Large	13	increase	9	decrease	9	decrease
alder	Cold	Mesic	Small	10	increase	6	none	6	none
alder	Cold	Mesic	Medium	13	increase	7	decrease	7	decrease
alder	Cold	Mesic	Large	17	none	9	decrease	9	decrease
alder	Cold	Dry	Small	17	decrease	6	none	6	none
alder	Cold	Dry	Medium	19	decrease	7	decrease	7	decrease
alder	Cold	Dry	Large	23	decrease	9	decrease	9	decrease

## Snag Fall Rates

The predicted snag fall rate (the proportion of snags of a certain type that fall each year) is a function of the variant, species, plant association, size, and an adjustment factor based on snag decay. The snag fall rate depends on the size of the tree – whether it is small, medium, or large in terms of dbh. This classification matches the one used for snag decay. The plant association is used to determine three characteristics – the soil moisture (wet, mesic, dry), the soil depth (other or shallow), and the slope position (other or ridgetop).

Each snag is classified into one of 20 snag fall species groups:

- 1 = douglas-fir (west OR)
- 2 = douglas-fir (west WA)
- 3 = douglas-fir (east OR)
- 4 = douglas-fir (east WA)
- 5 = western white pine
- 6 = western larch
- 7 = redcedar
- 8 = madrone
- 9 = lodgepole pine
- 10 = spruce
- 11 = western hemlock
- 12 = mountain hemlock
- 13 = ponderosa pine (OR)
- 14 = ponderosa pine (WA)
- 15 = pacific silver fir (OR)
- 16 = pacific silver fir (WA)
- 17 = grand / white fir
- 18 = misc. hardwoods
- 19 = populus
- 20 = alders

Tables 8 - 12 show the soil moisture class, soil depth, and slope position assumed for each plant association for each variant.

**Table 8 – PN soil moisture, soil depth, and slope position by plant association**

Pacific Northwest FVS variant					
			wet, mesic, dry	shallow or other	ridgetop or other
	ecoclass code	ecoclass	soil moisture	soil depth	slope positions
1	CDS221	PSME/HODI-ROGY	dry	other	other
2	CDS255	PSME/GASH	dry	other	other
3	CDS651	PSME/ARUV	dry	shallow	ridgetop
4	CEF321	ABLA2/LULA	dry	other	other
5	CES212	ABLA2/RHAL-OLY	dry	other	other
6	CES321	ABLA2/VAME-OLY	dry	other	other

7	CES621	ABLA2/JUCO4	dry	shallow	ridgetop
8	CFF111	ABAM/OXOR-OLY	wet	other	other
9	CFF211	ABAM/ACTR-TIUN	mesic	other	other
10	CFF311	ABAM/XETE	mesic	other	other
11	CFF611	ABAM/POMU	wet	other	other
12	CFF612	ABAM/POMU-OXOR	wet	other	other
13	CFF911	ABAM/Dep.	mesic	other	other
14	CFS156	ABAM/GASH/OXOR	mesic	other	other
15	CFS211	ABAM/VAME/XETE-OLY	mesic	other	other
16	CFS212	ABAM/VAAL-OLY	mesic	other	other
17	CFS213	ABAM/VAAL/ERMO	mesic	other	other
18	CFS214	ABAM/VAAL/XETE	mesic	other	other
19	CFS215	ABAM/VAAL/TIUN	mesic	other	other
20	CFS217	ABAM/VAAL/OXOR	mesic	other	other
21	CFS218	ABAM/VAAL/CLUN	mesic	other	other
22	CFS219	ABAM/VAAL/LIBO2	mesic	other	other
23	CFS311	ABAM/OPHO-OLY	wet	other	other
24	CFS611	ABAM/RHMA-OLY	mesic	other	other
25	CFS612	ABAM/RHMA-VAAL	mesic	other	other
26	CHF112	TSHE/OXOR-OLY	wet	other	other
27	CHF121	TSHE/OXOR-COAST	mesic	other	other
28	CHF122	TSHE/POMU-COAST	mesic	other	other
29	CHF131	TSHE/POMU-OXOR-OLY	wet	other	other
30	CHF132	TSHE/POMU-TITR	wet	other	other
31	CHF211	TSHE/ACTR-OLY	mesic	other	other
32	CHF511	TSHE/XETE-OLY	dry	other	other
33	CHF911	TSHE/Dep.	mesic	other	other
34	CHM111	TSHE/LYAM-OLY	wet	other	other
35	CHS121	TSHE/BENE-COAST	mesic	shallow	other
36	CHS122	TSHE/BENE-GASH-COAST	mesic	shallow	other
37	CHS123	TSHE/GASH-COAST	mesic	other	other
38	CHS131	TSHE/GASH-OLY	mesic	other	other
39	CHS132	TSHE/GASH/XETE	dry	other	other
40	CHS133	TSHE/GASH-VAOV2	mesic	other	other
41	CHS134	TSHE/GASH-HODI	dry	other	other
42	CHS136	TSHE/GASH/OXOR	mesic	other	other
43	CHS137	TSHE/GASH/POMU	mesic	other	other
44	CHS138	TSHE/BENE-OLY	mesic	other	other
45	CHS139	TSHE/BENE/POMU-OLY	mesic	other	other
46	CHS221	TSHE/ACCI-GASH-COAST	mesic	other	other
47	CHS222	TSHE/ACCI/POMU-COAST	mesic	other	other
48	CHS321	TSHE/RHMA-BENE-COAST	dry	shallow	ridgetop
49	CHS322	TSHE/RHMA-GASH-COAST	mesic	other	ridgetop
50	CHS323	TSHE/RHMA/POMU-COAST	mesic	other	other
51	CHS324	TSHE/RHMA/VAOV2-COAST	dry	other	ridgetop
52	CHS331	TSHE/RHMA-OLY	mesic	other	other
53	CHS332	TSHE/RHMA/XETE-OLY	mesic	other	other
54	CHS333	TSHE/RHMA-BENE-OLY	mesic	other	other
55	CHS334	TSHE/RHMA-GASH-OLY	mesic	other	other
56	CHS335	TSHE/RHMA/POMU-OLY	mesic	other	other

57	CHS421	TSHE/RUSP-COAST	mesic	other	other
58	CHS422	TSHE/RUSP-ACCI-COAST	mesic	other	other
59	CHS423	TSHE/RUSP-GASH-COAST	mesic	shallow	other
60	CHS512	TSHE/OPHO-OLY	wet	other	other
61	CHS521	TSHE/OPHO-COAST	wet	other	other
62	CHS610	TSHE/VAOV2-COAST	mesic	other	ridgetop
63	CHS621	TSHE/VAAL	mesic	other	other
64	CHS622	TSHE/VAAL/XETE	mesic	other	other
65	CHS623	TSHE/VAAL/OXOR-OLY	mesic	other	other
66	CHS624	TSHE/VAAL-GASH-OLY	mesic	other	other
67	CMS242	TSME/VAAL/ERMO	mesic	other	other
68	CSF111	PISI/POMU-OXOR	wet	other	other
69	CSF121	PISI/POMU-COAST	mesic	other	other
70	CSF321	PISI/OXOR-COAST	mesic	other	other
71	CSS221	PISI/MEFE-VAPA-COAST	mesic	other	other
72	CSS321	PISI/GASH-COAST	dry	other	other
73	CSS521	PISI/RUSP-COAST	mesic	other	other
74	CSS522	PISI/RUSP-GASH-COAST	dry	shallow	other
75	CSS621	PISI/OPHO-COAST	wet	other	other



**Table 9 – WC soil moisture, soil depth, and slope position by plant association**

western Cascades FVS variant			wet, mesic, dry	shallow or other	ridgetop or other
ecoclass code	ecoclass		soil moisture	soil depth	slope positions
1	CAF211	TSME-ABLA2/PONE4	dry	shallow	other
2	CAF311	TSME-ABLA2/ASLE2	mesic	other	ridgetop
3	CAG211	TSME-ABLA2/FEVI	mesic	other	other
4	CAG311	TSME/LUHI	wet	other	other
5	CAG312	TSME-PIAL/LUHI	mesic	other	ridgetop
6	CAS211	TSME/PHEM-VADE	mesic	other	other
7	CAS411	TSME-ABLA2/JUOC4	mesic	other	other
8	CDC711	PSME-TSHE/BENE	dry	other	other
9	CDC712	PSME-TSHE/RHMA	dry	other	other
10	CDC713	PSME-TSHE/GASH	dry	shallow	other
11	CDS211	PSME/HODI-BENE	dry	shallow	other
12	CDS212	PSME/HODI/GRASS	dry	shallow	ridgetop
13	CDS213	PSME/HODI-WHMO	dry	shallow	other
14	CDS641	PSME/SYMO-WIL	dry	shallow	other
15	CFC251	ABAM-TSHE/RHMA-GASH	mesic	other	other
16	CFC311	ABAM-ABGR/SMST	mesic	other	other
17	CFF152	ABAM/TIUN	mesic	other	other
18	CFF153	ABAM/OXOR	mesic	other	other
19	CFF154	ABAM/TIUN-STRO	mesic	other	other
20	CFF250	ABAM/ACTR-MBS	mesic	other	other
21	CFF253	ABAM/ACTR-CLUN	mesic	other	other
22	CFF312	ABAM/XETE-MBS	mesic	other	other
23	CFF450	ABAM/RUPE-BLSP	mesic	other	other
24	CFM111	ABAM/LYAM	wet	other	other
25	CFS110	ABAM/BENE-MBS	mesic	other	other
26	CFS151	ABAM/BENE	mesic	other	other
27	CFS152	ABAM/GASH-GP	mesic	other	other
28	CFS154	ABAM/GASH-BENE	dry	other	other
29	CFS216	ABAM/VAAL-BENE	mesic	other	other
30	CFS221	ABAM/VAME-VASI	mesic	other	other
31	CFS222	ABAM/VAME-STRO	mesic	other	other
32	CFS223	ABAM/VAME-VAAL	mesic	other	other
33	CFS224	ABAM/VAME	mesic	other	other
34	CFS225	ABAM/VAAL-MADI2	mesic	other	other
35	CFS226	ABAM/VAAL-TIUN-MBS	mesic	other	other
36	CFS229	ABAM/VAME-PYSE	mesic	other	other
37	CFS230	ABAM/VAAL-GASH-MBS	mesic	other	other
38	CFS231	ABAM/VAAL-POMU	mesic	other	other
39	CFS251	ABAM/VAME/XETE	dry	other	ridgetop
40	CFS252	ABAM/VAME-XETE-MBS	mesic	other	other
41	CFS253	ABAM/VAAL/COCA	mesic	other	other
42	CFS254	ABAM/MEFE	mesic	shallow	other

43	CFS255	ABAM/VAAL-GASH	dry	other	other
44	CFS256	ABAM/VAME/CLUN	mesic	other	other
45	CFS257	ABAM/VAAL	mesic	other	other
46	CFS258	ABAM/VAAL-MBS	mesic	other	other
47	CFS259	ABAM/VAAL-XETE-MBS	mesic	other	other
48	CFS260	ABAM/VAAL-CLUN-MBS	mesic	other	other
49	CFS351	ABAM/OPHO	wet	other	other
50	CFS352	ABAM/OPHO-VAAL	wet	other	other
51	CFS550	ABAM/RHAL-GP	mesic	other	ridgetop
52	CFS551	ABAM/RHAL/XETE	wet	shallow	other
53	CFS552	ABAM/RHAL/CLUN	wet	other	ridgetop
54	CFS554	ABAM/RHAL-VAME	mesic	other	other
55	CFS555	ABAM/RHAL-VAAL	mesic	other	other
56	CFS651	ABAM/ACCI/TIUN	mesic	other	other
57	CFS652	ABAM/RHMA-BENE	dry	other	other
58	CFS653	ABAM/RHMA/XETE	dry	other	ridgetop
59	CFS654	ABAM/RHMA-VAAL/COCA	mesic	other	other
60	CHC212	TSHE-PSME/HODI	dry	shallow	ridgetop
61	CHC213	TSHE-PSME-ARME	dry	shallow	ridgetop
62	CHF111	TSHE/OXOR-WILL	mesic	other	other
63	CHF123	TSHE/POMU-MTH	mesic	other	other
64	CHF124	TSHE/POMU-OXOR	mesic	other	other
65	CHF125	TSHE/POMU-GP	mesic	other	other
66	CHF133	TSHE/POMU-GASH	mesic	other	other
67	CHF134	TSHE/POMU-BENE	mesic	other	other
68	CHF135	TSHE/POMU-TITR-MBS	wet	other	other
69	CHF151	TSHE/POMU-WILL	mesic	other	other
70	CHF221	TSHE/ACTR	mesic	other	other
71	CHF222	TSHE/TITR	mesic	other	other
72	CHF250	TSHE/TITR-GYDR	mesic	other	other
73	CHF321	TSHE/LIBO2	mesic	shallow	other
74	CHF421	TSHE/ATFI	wet	other	other
75	CHM121	TSHE/LYAM	wet	other	other
76	CHS111	TSHE/GASH-WILL	dry	shallow	other
77	CHS113	TSHE/BENE/OXOR	mesic	other	other
78	CHS114	TSHE/BENE/ACTR	mesic	other	other
79	CHS124	TSHE/BENE-GASH	mesic	other	other
80	CHS125	TSHE/BENE	mesic	other	other
81	CHS126	TSHE/BENE/POMU	mesic	other	other
82	CHS127	TSHE/BENE-GASH-GP	mesic	other	ridgetop
83	CHS128	TSHE/GASH-GP	dry	shallow	other
84	CHS129	TSHE/GASH-MBS	mesic	other	other
85	CHS130	TSHE/BENE-MBS	mesic	other	other
86	CHS135	TSHE/GASH-BENE	mesic	other	other
87	CHS140	TSHE/GASH-VAME	dry	other	other
88	CHS141	TSHE/BENE-CHME	mesic	other	other
89	CHS223	TSHE/ACCI/ACTR	mesic	shallow	other
90	CHS224	TSHE/CONU/ACTR	dry	other	other
91	CHS251	TSHE/ACCI-BENE	mesic	other	other
92	CHS325	TSHE/RHMA/XETE-MTH	mesic	other	other

93	CHS326	TSHE/RHMA-VAAL/COCA	mesic	other	other
94	CHS327	TSHE/RHMA-GASH-MTH	dry	shallow	other
95	CHS328	TSHE/RHMA-BENE-MTH	dry	shallow	other
96	CHS351	TSHE/RHMA-GASH-WILL	dry	shallow	other
97	CHS352	TSHE/RHMA-BENE-WILL	dry	shallow	other
98	CHS353	TSHE/RHMA/XETE-WILL	mesic	other	other
99	CHS354	TSHE/RHMA/OXOR	mesic	other	other
100	CHS355	TSHE/RHMA/LIBO2	mesic	other	other
101	CHS511	TSHE/OPHO-ATFI	wet	shallow	other
102	CHS513	TSHE/OPHO-ATFI	wet	other	other
103	CHS522	TSHE/OPHO/OXOR	wet	other	other
104	CHS523	TSHE/OPHO/SMST	Wet	other	other
105	CHS524	TSHE/OPHO/POMU	wet	other	other
106	CHS611	TSHE/VAAL-OPHO	wet	other	other
107	CHS612	TSHE/VAME/XETE	dry	shallow	other
108	CHS613	TSHE/VAAL/OXOR	mesic	other	other
109	CHS614	TSHE/VAAL-GASH	mesic	other	other
110	CHS615	TSHE/VAAL/COCA	mesic	other	other
111	CHS625	TSHE/VAAL-POMU	mesic	other	other
112	CHS626	TSHE/VAAL-BENE	mesic	other	other
113	CMF250	TSME/TIUN-STRO	mesic	other	other
114	CMF251	TSME/CABI	wet	other	other
115	CMS114	TSME/VASC	dry	other	other
116	CMS210	TSME/VAME-GP	mesic	other	other
117	CMS216	TSME/VAME/XETE	dry	other	other
118	CMS218	TSME/VAME/CLUN	mesic	other	other
119	CMS221	TSME/MEFE	mesic	other	other
120	CMS223	TSME/RHAL	wet	other	other
121	CMS241	TSME/VAAL	mesic	other	other
122	CMS244	TSME/VAME-VAAL	mesic	other	other
123	CMS245	TSME/VAME/XETE-WASH	dry	shallow	ridgetop
124	CMS246	TSME/VAME-MBS	mesic	other	other
125	CMS250	TSME/VAME-STRO	mesic	shallow	other
126	CMS251	TSME/VAME-VASI	mesic	other	other
127	CMS252	TSME/VAAL-STRO	mesic	other	other
128	CMS253	TSME/VAAL-CLUN	mesic	other	other
129	CMS254	TSME/VAME-RULA	dry	shallow	other
130	CMS255	TSME/VAAL-MADI2	mesic	other	other
131	CMS350	TSME/PHEM-VADE	mesic	other	other
132	CMS351	TSME/RHAL-VAAL	mesic	other	other
133	CMS352	TSME/RHAL-VAME	mesic	other	other
134	CMS353	TSME/CLPY-RUPE	mesic	other	other
135	CMS450	TSME/OPHO-VAAL	wet	other	other
136	CMS612	TSME/RHMA	dry	shallow	other
137	CWF211	ABGR/CHUM	mesic	other	other
138	CWS521	ABGR/ARUV	dry	shallow	ridgetop
139	CWS522	ABGR/BENE	dry	other	other

**Table 10 – SO soil moisture, soil depth, and slope position by plant association**

Southern Oregon FVS variant ecoclass	wet, mesic, dry	shallow or other	ridgetop or other slope positions
	soil moisture	soil depth	
1 = CDS612 = PSME-ABCO/SYAL/LIBO	mesic	other	other
2 = CDS613 = PSME-ABCO/SYAL/FORB	mesic	other	other
3 = CDS614 = PSME-ABCO/SYAL/CARU	mesic	other	ridgetop
4 = CEM111 = PIEN/CAEU	wet	other	other
5 = CEM221 = PIEN/EQAR-STRO	wet	other	other
6 = CEM222 = PIEN/CLUN	mesic	other	other
7 = CEM311 = PIEN/VAOC2-FORB	wet	other	other
8 = CEM312 = PIEN/VAOC2/CAEU	wet	other	other
9 = CLC111 = PICO-PIAL/PELA	dry	other	ridgetop
10 = CLC112 = PICO-PIAL/ARCO2	dry	other	ridgetop
11 = CLF111 = PICO/FORB	dry	other	other
12 = CLG311 = PICO/STOC-BASIN	dry	other	other
13 = CLG313 = PICO/STOC-LUCA-LINU	dry	other	ridgetop
14 = CLG314 = PICO/STOC-LUCA	dry	other	ridgetop
15 = CLG315 = PICO/FRVI-FEID	dry	other	other
16 = CLG411 = PICO/CAPE-LUCA	dry	other	other
17 = CLG412 = PICO/CAPE-LUCA-PEEU	dry	other	other
18 = CLG413 = PICO/CAPE-STOC-BASIN	dry	other	other
19 = CLG415 = PICO/SIHY-CAPE	dry	other	other
20 = CLH111 = PICO/POTR/FRVI	mesic	other	other
21 = CLM111 = PICO/CANE-ELGL-WET	wet	other	other
22 = CLM112 = PICO/POPR	mesic	other	other
23 = CLM113 = PICO/CAEU	wet	other	other
24 = CLM114 = PICO/CAAQ	wet	other	other
25 = CLM211 = PICO/ARUV	mesic	other	other
26 = CLM311 = PICO/VAOC2/FORB	wet	other	other
27 = CLM312 = PICO/VAOC2/CAEU	wet	other	other
28 = CLM313 = PICO/SPDO/FORB	mesic	other	other
29 = CLM314 = PICO/SPDO/CAEU	wet	other	other
30 = CLM411 = PICO/XETE	dry	other	other
31 = CLM911 = PICO/PIEN/ELPA2	wet	other	other
32 = CLS112 = PICO/ARTR-RHYO	dry	other	other
33 = CLS211 = PICO/PUTR/STOC	dry	other	other
34 = CLS212 = PICO/PUTR/CAPE	dry	other	other
35 = CLS213 = PICO/PUTR/FORB	dry	other	other
36 = CLS214 = PICO/PUTR/FEID	dry	other	other
37 = CLS215 = PICO/RICE-PUTR/STOC	dry	other	other
38 = CLS216 = PICO/PUTR-RHYO	dry	other	other
39 = CLS311 = PICO/ARNE	dry	other	other
40 = CLS412 = PICO/VASC	dry	other	other
41 = CLS413 = PICO/VASC-FORB	dry	other	other
42 = CLS414 = PICO/VASC/CAPE	dry	other	other

43 = CLS911 = PICO/CEVE-ARPA	dry	other	other
44 = CMS111 = TSME/VASC-DES	dry	other	ridgetop
45 = CPC211 = PIPO-JUOC/CELE/FEID	dry	shallow	other
46 = CPF111 = PIPO/WYMO	dry	other	other
47 = CPG212 = PIPO/CAPE-FEID-LALA2	dry	other	other
48 = CPH311 = PIPO-POTR/PONE	mesic	other	other
49 = CPS111 = PIPO/PUTR-ARTR/FEID	dry	shallow	other
50 = CPS112 = PIPO/PUTR-ARTR/SIHY	dry	other	other
51 = CPS121 = PIPO/ARTR/PONE	dry	other	other
52 = CPS211 = PIPO/PUTR/FEID	dry	other	other
53 = CPS212 = PIPO/PUTR/STOC	dry	other	other
54 = CPS213 = PIPO/PUTR-ARPA/STOC	dry	other	other
55 = CPS214 = PIPO/PUTR-ARPA/CAPE	dry	other	other
56 = CPS215 = PIPO/PUTR/CAPE	dry	other	other
57 = CPS216 = PIPO/PUTR/FEID-AGSP	dry	other	other
58 = CPS217 = PIPO/PUTR-ARPA/FEID	dry	other	other
59 = CPS218 = PIPO/PUTR/SIHY-RHYO	dry	other	other
60 = CPS311 = PIPO/PUTR-CEVE/STOC	dry	other	other
61 = CPS312 = PIPO/PUTR-CEVE/CAPE	dry	other	other
62 = CPS314 = PIPO/PUTR-CEVE/FEID	dry	other	other
63 = CPS511 = PIPO/SYAL-FLOOD	mesic	other	other
64 = CRG111 = ABMAS/CAPE	dry	shallow	ridgetop
65 = CRS111 = ABMAS/ARNE	dry	other	other
66 = CRS112 = ABMAS-TSME/ARNE/CAPE	dry	other	ridgetop
67 = CRS311 = ABMAS-ABCO/CACH- CHUM/CAPE	mesic	other	other
68 = CWC111 = ABCO-PIPO-CADE/AMAL	dry	other	other
69 = CWC211 = ABCO/CEVE-CACH/PTAQ	mesic	other	other
70 = CWC212 = ABCO/CEVE-CACH/CARU	mesic	other	other
71 = CWC213 = ABCO/CEVE/CAPE-PTAQ	mesic	other	other
72 = CWC215 = ABCO-PSME/CEVE-ARUV	mesic	other	other
73 = CWC311 = ABCO-PICO/CAPE5-STOC	dry	other	other
74 = CWC411 = ABCO-PIPO-PILA/RIVI	mesic	other	other
75 = CWC412 = ABCO-PIPO-PILA/ARPA	dry	other	other
76 = CWC911 = PIEN-BOTTOMS	wet	other	other
77 = CWF431 = ABCO/CLUN	mesic	other	other
78 = CWH111 = ABCO/CEVE-CACH	mesic	other	other
79 = CWH112 = ABCO/CACH-PAMY-CHUM	mesic	other	other
80 = CWH211 = ABCO-PIPO-POTR/CAPE	dry	other	other
81 = CWM111 = ABCO/ALTE	wet	other	other
82 = CWS112 = ABCO/CEVE-ARPA	dry	other	ridgetop
83 = CWS113 = ABCO/CEVE-ARPA/CAPE-PEEU	dry	other	other
84 = CWS114 = ABCO/CEVE	dry	other	ridgetop
85 = CWS115 = ABCO/CEVE/CAPE	dry	other	other
86 = CWS116 = ABCO/CEVE-CEPR/FRVI	mesic	other	ridgetop
87 = CWS117 = ABCO-PIPO/ARPA-BERE	dry	other	other
88 = CWS312 = ABCO/SYAL/FRVI	mesic	other	other
89 = CWS313 = ABCO-PIPO/SYAL/STJA	mesic	other	other
90 = HQM121 = POTR/ELGL	mesic	other	other
91 = HQM411 = POTR-PICO/SPDO/CAEU	wet	other	other

92 = HQS221 = POTR/SYAL/ELGL	mesic	other	other
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**Table 11 – EC soil moisture, soil depth, and slope position by plant association**

East Cascades FVS variant				
ecoclass code	ecoclass	wet, mesic, dry	shallow or other	ridgetop or other
		soil moisture	soil depth	slope position
1:{CAG112	1 = PIAL/CARU	dry	other	ridgetop
2:{CAS311	2 = PIAL/VASC/LUHI	mesic	shallow	other
3:{CCF211	3 = THPL-ABGR/ACTR	mesic	other	other
4:{CCF212	4 = THPL/ACTR	mesic	other	other
5:{CCF221	5 = THPL/CLUN	mesic	other	other
6:{CCF222	6 = THPL/ARNU3	mesic	other	other
7:{CCS211	7 = THPL/OPHO	wet	other	other
8:{CCS311	8 = THPL/VAME	mesic	other	other
9:{CDF411	9 = PSME/PEFR3	dry	other	other
10:{CDG123	10 = PSME/ARUV-OKAN	dry	shallow	ridgetop
11:{CDG131	11 = PSME/CARU-O&C	dry	other	other
12:{CDG132	12 = PSME/CAGE-WEN	dry	other	other
13:{CDG134	13 = PSME/CARU-AGSP	dry	other	other
14:{CDG141	14 = PSME/CAGE	dry	other	other
15:{CDG311	15 = PIPO-PSME/AGSP	dry	other	other
16:{CDG321	16 = PSME/FEOC	mesic	other	other
17:{CDG322	17 = PSME/AGSP-WEN	dry	other	other
18:{CDG323	18 = PSME/AGSP-ASDE	dry	other	other
19:{CDS231	19 = PSME/HODI/CAGE	dry	other	other
20:{CDS241	20 = PSME/ACCI/FEOC	dry	shallow	ridgetop
21:{CDS411	21 = PSME/PAMY-OKAN	mesic	other	other
22:{CDS412	22 = PSME/PAMY/CARU	mesic	other	other
23:{CDS631	23 = PSME/ARUV-PUTR	dry	other	other
24:{CDS632	24 = PSME/SYOR-O&C	dry	other	other
25:{CDS633	25 = PSME/SYAL	dry	other	other
26:{CDS636	26 = PSME/SYAL-WEN	dry	other	other
27:{CDS637	27 = PSME/SYAL/AGSP	dry	other	other
28:{CDS638	28 = PSME/SYAL/CARU	dry	other	other
29:{CDS639	29 = PSME/SPBEL/CARU	mesic	other	other
30:{CDS640	30 = PSME/SPBEL	dry	other	other
31:{CDS653	31 = PSME/ARUV-WEN	dry	other	other
32:{CDS654	32 = PSME/ARUV-PUTR	mesic	other	other
33:{CDS655	33 = PSME/ARUV/CARU	dry	other	other
34:{CDS661	34 = PSME/SYAL-MTH	dry	other	other
35:{CDS662	35 = PSME/ARNE	dry	shallow	ridgetop
36:{CDS673	36 = PSME/PUTR	dry	other	ridgetop
37:{CDS674	37 = PSME/PUTR/AGSP	dry	shallow	other
38:{CDS675	38 = PSME/PUTR/CARU	dry	other	other
39:{CDS715	39 = PSME/PHMA-O&C	dry	other	other
40:{CDS716	40 = PSME/PHMA-LIBOL	mesic	other	other
41:{CDS811	41 = PSME/VACCI	mesic	other	other
42:{CDS813	42 = PSME/VACA-COL	mesic	other	other
43:{CDS814	43 = PSME/VAME-COLV	dry	other	other

44:{CDS831	44 = PSME/VACA	mesic	other	other
45:{CDS832	45 = PSME/VAME-WEN	dry	other	other
46:{CDS833	46 = PSME/VAMY/CARU	dry	other	other
47:{CEF111	47 = ABLA2/XETE	dry	other	ridgetop
48:{CEF211	48 = ABLA2/LIBOL-O&C	mesic	other	other
49:{CEF222	49 = ABLA2/LIBOL-WEN	mesic	other	other
50:{CEF421	50 = ABLA2/CLUN	mesic	other	other
51:{CEF422	51 = ABLA2/TRCA3	wet	other	other
52:{CEF423	52 = ABLA2/COCA	mesic	other	other
53:{CEF424	53 = ABLA2/ARLA-POPU	mesic	other	other
54:{CEG121	54 = ABLA2/LUHI-WEN	mesic	other	other
55:{CEG310	55 = ABLA2/CARU-WEN	dry	other	other
56:{CEG311	56 = ABLA2/CARU-O&C	dry	other	other
57:{CEM211	57 = PIEN/EQAR	wet	other	other
58:{CES111	58 = ABLA2/PAMY-OKAN	mesic	other	other
59:{CES113	59 = ABLA2/PAMY-WEN	mesic	other	other
60:{CES210	60 = ABLA2/RHAL-XETE	mesic	other	ridgetop
61:{CES211	61 = ABLA2/RHAL	wet	other	other
62:{CES213	62 = ABLA2/RHAL/LUHI	mesic	other	other
63:{CES312	63 = ABLA2/VACCI	wet	other	other
64:{CES313	64 = ABLA2/VAME-COLV	mesic	other	other
65:{CES342	65 = ABLA2/VAME-WEN	mesic	other	other
66:{CES412	66 = ABLA2/VASC-O&C	dry	other	other
67:{CES413	67 = ABLA2/VASC/CARU-OKAN	dry	other	other
68:{CES422	68 = ABLA2/VACA	mesic	other	other
69:{CES423	69 = ABLA2/RULA	mesic	other	other
70:{CES424	70 = ABLA2/VASC/ARLA	mesic	shallow	other
71:{CES425	71 = ABLA2/VASC/LUHI	dry	shallow	other
72:{CES426	72 = ABLA2/VASC-WEN	dry	other	other
73:{CFF162	73 = ABAM/TITRU	mesic	other	other
74:{CFF254	74 = ABAM/ACTR-WEN	mesic	other	other
75:{CFS232	75 = ABAM/VAAL-WEN	mesic	other	other
76:{CFS233	76 = ABAM/VAME/CLUN-WEN	dry	other	other
77:{CFS234	77 = ABAM/VAME-PYSE	dry	other	other
78:{CFS542	78 = ABAM/MEFE-WEN	mesic	shallow	other
79:{CFS553	79 = ABAM/RHAL-OKAN	mesic	other	other
80:{CFS556	80 = ABAM/RHAL-VAME-WEN	mesic	other	other
81:{CFS558	81 = ABAM/PAMY	mesic	other	other
82:{CFS621	82 = ABAM/ACCI	mesic	other	other
83:{CHC311	83 = TSHE-ABGR/CLUN	mesic	other	other
84:{CHF223	84 = TSHE/ACTR-WEN	mesic	other	other
85:{CHF311	85 = TSHE/CLUN	mesic	other	other
86:{CHF312	86 = TSHE/ARNU3	mesic	other	other
87:{CHF313	87 = TSHE/ASCA3	mesic	other	other
88:{CHF422	88 = TSHE/GYDR	wet	other	other
89:{CHF521	89 = TSHE/XETE-COLV	mesic	other	other
90:{CHS142	90 = TSHE/BENE-WEN	mesic	other	other
91:{CHS143	91 = TSHE/PAMY/CLUN	other	other	other



92:{CHS144	92 = TSHE/ARNE	dry	shallow	other
93:{CHS225	93 = TSHE/ACCI/ACTR-WEN	mesic	other	other
94:{CHS226	94 = TSHE/ACCI/ASCA3	mesic	other	other
95:{CHS227	95 = TSHE/ACCI/CLUN	mesic	other	other
96:{CHS411	96 = TSHE/RUPE	mesic	other	other
97:{CHS711	97 = TSHE/MEFE	wet	other	other
98:{CLS521	98 = PICO/SHCA	mesic	shallow	other
99:{CMF131	99 = TSME/XETE-VAMY	dry	shallow	ridgetop
100:{CMG221	100 = TSME/LUHI	mesic	other	other
101:{CMS121	101 = TSME/VASC/LUHI	mesic	other	ridgetop
102:{CMS122	102 = TSME/RULA	mesic	other	ridgetop
103:{CMS256	103 = TSME/MEFE-VAAL	mesic	other	other
104:{CMS257	104 = TSME/MEFE-VAME	mesic	other	other
105:{CMS258	105 = TSME/VAAL-WEN	mesic	other	other
106:{CMS259	106 = TSME/VAME-WEN	dry	other	other
107:{CMS354	107 = TSME/PHEM-VADE	mesic	other	other
108:{CMS355	108 = TSME/RHAL-VAAL	mesic	other	other
109:{CMS356	109 = TSME/RHAL-VAME	mesic	other	other
110:{CPG141	110 = PIPO/AGSP-WEN	dry	shallow	other
111:{CPG231	111 = PIPO/CARU-AGSP	dry	shallow	other
112:{CPH211	112 = PIPO-QUGA/BASA	mesic	shallow	other
113:{CPH212	113 = PIPO-QUGA/PUTR	mesic	other	other
114:{CPS241	114 = PIPO/PUTR/AGSP	dry	other	other
115:{CWC511	115 = ABGR-PIEN/SMST	mesic	other	other
116:{CWF321	116 = ABGR/LIBO2	mesic	other	other
117:{CWF444	117 = ABGR/ARCO	mesic	other	other
118:{CWF521	118 = ABGR/TRLA2	mesic	other	other
119:{CWF522	119 = ABGR/ACTR	mesic	other	other
120:{CWF523	120 = ABGR/POPU	mesic	other	ridgetop
121:{CWF524	121 = ABGR/ACTR-WEN	mesic	other	other
122:{CWG121	122 = ABGR/CAGE	dry	other	ridgetop
123:{CWG122	123 = ABGR/CAGE-GP	dry	other	other
124:{CWG123	124 = ABGR/CARU	dry	other	other
125:{CWG124	125 = ABGR/CARU-WEN	dry	other	other
126:{CWG125	126 = ABGR/CARU-LUPIN	dry	other	other
127:{CWS214	127 = ABGR/VAME/CLUN-COL	mesic	other	other
128:{CWS221	128 = ABGR/VAME/LIBO2	mesic	other	other
129:{CWS222	129 = ABGR/VAME/CLUN	mesic	other	other
130:{CWS223	130 = ABGR/RUPA/DIHO	mesic	other	other
131:{CWS224	131 = ABGR/BENE/ACTR	mesic	other	other
132:{CWS225	132 = ABGR/BENE	dry	other	other
133:{CWS226	133 = ABGR/BENE/CARU-WEN	mesic	other	other
134:{CWS331	134 = ABGR/SYMPH	mesic	other	other
135:{CWS332	135 = ABGR/SYMO/ACTR	mesic	other	other
136:{CWS335	136 = ABGR/SPEBL/PTAQ	dry	other	other
137:{CWS336	137 = ABGR/SYAL/CARU	mesic	other	other
138:{CWS337	138 = ABGR/SYOR	dry	other	other
139:{CWS338	139 = ABGR/ARNE	dry	other	other
140:{CWS421	140 = ABGR/PHMA	dry	other	other
141:{CWS422	141 = ABGR/ACGLD/CLUN	mesic	other	other

142:{CWS531	142 = ABGR/HODI	mesic	other	other
143:{CWS532	143 = ABGR/ACCI/ACTR	mesic	other	other
144:{CWS533	144 = ABGR/CACH	mesic	other	other
145:{CWS534	145 = ABGR/HODI-GP	mesic	other	other
146:{CWS535	146 = ABGR/ACCI- BEAQ/TRLA2	dry	other	ridgetop
147:{CWS536	147 = ABGR/COCO2/ACTR	dry	other	ridgetop
148:{CWS537	148 = ABGR/CONU/ACTR	mesic	other	other
149:{CWS551	149 = ABGR/ACCI-WEN	mesic	other	other
150:{CWS552	150 = ABGR/ACCI-CHUM	mesic	other	other
151:{CWS553	151 = ABGR/ACCI/CLUN	mesic	other	other
152:{CWS554	152 = ABGR/HODI/CARU	dry	other	other
153:{CWS821	153 = ABGR/VACA	mesic	other	other
154:{HQG111	154 = POTR/CARU	mesic	other	other
155:{HQS211	155 = POTR/SYAL	wet	other	other

**Table 12 – BM soil moisture, soil depth, and slope position by plant association**

Blue Mountains FVS variant			
	wet, mesic, dry	shallow or other	ridgetop or other
ecoclass code	soil moisture	soil depth	slope positions
{CAG111 ABLA2/CAGE}	dry	other	ridgetop
{CAG4 ABLA2/STOC}	dry	other	ridgetop
{CDG111 PSME/CAGE}	dry	other	other
{CDG112 PSME/CARU-BLUE}	dry	other	other
{CDG121 PSME/CARU-WALLO}	dry	other	other
{CDS611 PSME/HODI}	mesic	other	other
{CDS622 PSME/SYAL-WALLO}	dry	other	other
{CDS623}	dry	other	other
{CDS624 PSME/SYAL-BLUE}	dry	other	other
{CDS634 PSME/SPBE}	dry	other	other
{CDS711 PSME/PHMA}	dry	other	other
{CDS722 PSME/ACGL-PHMA}	mesic	other	other
{CDS821 PSME/VAME-BLUE}	dry	other	other
{CEF221 ABLA2/LIBO2-WALLO}	mesic	other	other
{CEF311}	wet	other	other
{CEF331 ABLA2/TRCA3}	mesic	other	other
{CEF411 ALBA2/POPU}	dry	other	ridgetop
{CEM111}	wet	other	other
{CEM221}	wet	other	other
{CEM222}	mesic	other	other
{CEM311}	wet	other	other
{CEM312}	wet	other	other
{CES131 ABLA2/CLUN-WALLO}	mesic	other	other
{CES221 ABLA2/MEFE}	mesic	other	other
{CES311 ABLA2/VAME-BLUE}	mesic	other	other
{CES314 ABLA2/CLUN-BLUE}	mesic	other	other
{CES315 ABLA2/VAME-WALLO}	mesic	other	other
{CES411 ABLA2/VASC-BLUE}	dry	other	other
{CES414 ABLA2/LIBO2-BLUE}	mesic	other	other
{CES415 ABLA2/VASC/POPU}	dry	other	ridgetop
{CLF211}	mesic	other	other
{CLG211}	dry	other	ridgetop
{CLM112}	dry	other	other
{CLM113}	wet	other	other
{CLM114}	wet	other	other
{CLM312}	wet	other	other
{CLM313}	mesic	other	other
{CLM314}	wet	other	other
{CLM911}	wet	other	other
{CLS411}	dry	other	ridgetop
{CLS415}	dry	other	other
{CLS416 PICO/CARU}	dry	other	other
{CLS5 PICO(ABGR)VAME-LIBO2}	mesic	other	other

{CLS511}	mesic	other	ridgetop
{CLS515}	mesic	other	ridgetop
{CLS6 PICO(ABGR)/ALSI}	mesic	other	other
{CMS131 TSME/VASC-WALLO}	dry	other	ridgetop
{CMS231 TSME/VAME-WALLO}	dry	other	other
{CPG111 PIPO/AGSP-BLUE}	dry	shallow	other
{CPG112 PIPO/FEID-BLUE}	dry	shallow	other
{CPG131 PIPO/FEID-WALLO}	dry	shallow	other
{CPG132 PIPO/AGSP-WALLO}	dry	shallow	other
{CPG221 PIPO/CARU}	dry	other	other
{CPG222 PIPO/CAGE}	dry	other	other
{CPM111}	dry	other	other
{CPS131 PIPO/ARTRV/FEID-AGSP}	dry	other	other
{CPS221 PIPO/PUTR/CARO}	dry	other	ridgetop
{CPS222 PIPO/PUTR/CAGE}	dry	other	ridgetop
{CPS226 PIPO/PUTR/FEID-AGSP}	dry	other	other
{CPS232 PIPO/CELE/CAGE}	dry	other	other
{CPS233 PIPO/CELE/PONE}	dry	other	ridgetop
{CPS234 PIPO/CELE/FEID-AGSP}	dry	shallow	other
{CPS511}	dry	other	other
{CPS522 PIPO/SYAL-WALLO}	dry	other	other
{CPS523}	dry	other	other
{CPS524 PIPO/SYAL-BLUE}	dry	other	other
{CPS525 PIPO/SYOR}	dry	other	other
{CWC811 ABGR/TABR/CLUN-BLUE}	wet	other	other
{CWC812 ABGR/TABR/LIBO2}	wet	other	other
{CWF311 ABGR/LIBO2-WALLO}	mesic	other	other
{CWF312 ABGR/LIBO2-BLUE}	mesic	other	other
{CWF421 ABGR/CLUN}	mesic	other	other
{CWF431}	mesic	other	other
{CWF512 ABGR/TRCA3}	wet	other	other
{CWF611 ABGR/GYDR}	wet	other	other
{CWF612 ABGR/POMU-ASCA3}	wet	other	other
{CWG111 ABGR/CAGE}	dry	other	ridgetop
{CWG112}	dry	other	other
{CWG113 ABGR/CARU-BLUE}	dry	other	other
{CWG211 ABGR/BRVU}	mesic	other	other
{CWS211 ABGR/VAME-WALLO}	mesic	other	other
{CWS212 ABGR/VAME-BLUE}	mesic	other	other
{CWS321}	dry	other	other
{CWS322 ABGR/SPBE-BLUE}	dry	other	other
{CWS412}	mesic	other	other
{CWS541 ABGR/ACGL-BLUE}	wet	other	other
{CWS811 ABGR/VASC}	dry	other	other
{CWS812 ABGR/VASC-LIBO2}	mesic	other	other
{CWS912 ABGR/ACGL-WALLO}	wet	other	other
{HQM121}	mesic	other	other
{HQM411}	wet	other	other
{HQS221}	mesic	other	other

Table 13 listed the snag fall rates – the proportion of snags that fall each year – for each possible category.

**Table 13 – Snag fall rates**

Species group	Soil moisture	Soil depth	Slope Position	Decay rate adjustment	Snag dbh	Snag fall rate
Douglas-fir (west OR)	Wet	Other	Other	Decrease	Small	0.041
Douglas-fir (west OR)	Wet	Other	Other	Decrease	Medium	0.018
Douglas-fir (west OR)	Wet	Other	Other	Decrease	Large	0.006
Douglas-fir (west OR)	Wet	Other	Other	None	Small	0.046
Douglas-fir (west OR)	Wet	Other	Other	None	Medium	0.020
Douglas-fir (west OR)	Wet	Other	Other	None	Large	0.007
Douglas-fir (west OR)	Wet	Other	Other	Increase	Small	0.056
Douglas-fir (west OR)	Wet	Other	Other	Increase	Medium	0.025
Douglas-fir (west OR)	Wet	Other	Other	Increase	Large	0.008
Douglas-fir (west OR)	Wet	Other	Ridgetop	Decrease	Small	0.073
Douglas-fir (west OR)	Wet	Other	Ridgetop	Decrease	Medium	0.033
Douglas-fir (west OR)	Wet	Other	Ridgetop	Decrease	Large	0.011
Douglas-fir (west OR)	Wet	Other	Ridgetop	None	Small	0.075
Douglas-fir (west OR)	Wet	Other	Ridgetop	None	Medium	0.034
Douglas-fir (west OR)	Wet	Other	Ridgetop	None	Large	0.011
Douglas-fir (west OR)	Wet	Other	Ridgetop	Increase	Small	0.080
Douglas-fir (west OR)	Wet	Other	Ridgetop	Increase	Medium	0.036
Douglas-fir (west OR)	Wet	Other	Ridgetop	Increase	Large	0.012
Douglas-fir (west OR)	Wet	Shallow	Other	Decrease	Small	0.052
Douglas-fir (west OR)	Wet	Shallow	Other	Decrease	Medium	0.023
Douglas-fir (west OR)	Wet	Shallow	Other	Decrease	Large	0.008
Douglas-fir (west OR)	Wet	Shallow	Other	None	Small	0.056
Douglas-fir (west OR)	Wet	Shallow	Other	None	Medium	0.025
Douglas-fir (west OR)	Wet	Shallow	Other	None	Large	0.008
Douglas-fir (west OR)	Wet	Shallow	Other	Increase	Small	0.056
Douglas-fir (west OR)	Wet	Shallow	Other	Increase	Medium	0.025
Douglas-fir (west OR)	Wet	Shallow	Other	Increase	Large	0.008
Douglas-fir (west OR)	Wet	Shallow	Ridgetop	Decrease	Small	0.094
Douglas-fir (west OR)	Wet	Shallow	Ridgetop	Decrease	Medium	0.042
Douglas-fir (west OR)	Wet	Shallow	Ridgetop	Decrease	Large	0.014
Douglas-fir (west OR)	Wet	Shallow	Ridgetop	None	Small	0.094
Douglas-fir (west OR)	Wet	Shallow	Ridgetop	None	Medium	0.042
Douglas-fir (west OR)	Wet	Shallow	Ridgetop	None	Large	0.014
Douglas-fir (west OR)	Wet	Shallow	Ridgetop	Increase	Small	0.094
Douglas-fir (west OR)	Wet	Shallow	Ridgetop	Increase	Medium	0.042
Douglas-fir (west OR)	Wet	Shallow	Ridgetop	Increase	Large	0.014
Douglas-fir (west OR)	Mesic	Other	Other	Decrease	Small	0.042

Species group	Soil moisture	Soil depth	Slope Position	Decay rate adjustment	Snag dbh	Snag fall rate
Douglas-fir (west OR)	Mesic	Other	Other	Decrease	Medium	0.019
Douglas-fir (west OR)	Mesic	Other	Other	Decrease	Large	0.006
Douglas-fir (west OR)	Mesic	Other	Other	None	Small	0.047
Douglas-fir (west OR)	Mesic	Other	Other	None	Medium	0.021
Douglas-fir (west OR)	Mesic	Other	Other	None	Large	0.007
Douglas-fir (west OR)	Mesic	Other	Other	Increase	Small	0.056
Douglas-fir (west OR)	Mesic	Other	Other	Increase	Medium	0.025
Douglas-fir (west OR)	Mesic	Other	Other	Increase	Large	0.008
Douglas-fir (west OR)	Mesic	Other	Ridgetop	Decrease	Small	0.080
Douglas-fir (west OR)	Mesic	Other	Ridgetop	Decrease	Medium	0.036
Douglas-fir (west OR)	Mesic	Other	Ridgetop	Decrease	Large	0.012
Douglas-fir (west OR)	Mesic	Other	Ridgetop	None	Small	0.080
Douglas-fir (west OR)	Mesic	Other	Ridgetop	None	Medium	0.036
Douglas-fir (west OR)	Mesic	Other	Ridgetop	None	Large	0.012
Douglas-fir (west OR)	Mesic	Other	Ridgetop	Increase	Small	0.085
Douglas-fir (west OR)	Mesic	Other	Ridgetop	Increase	Medium	0.038
Douglas-fir (west OR)	Mesic	Other	Ridgetop	Increase	Large	0.013
Douglas-fir (west OR)	Mesic	Shallow	Other	Decrease	Small	0.052
Douglas-fir (west OR)	Mesic	Shallow	Other	Decrease	Medium	0.023
Douglas-fir (west OR)	Mesic	Shallow	Other	Decrease	Large	0.008
Douglas-fir (west OR)	Mesic	Shallow	Other	None	Small	0.056
Douglas-fir (west OR)	Mesic	Shallow	Other	None	Medium	0.025
Douglas-fir (west OR)	Mesic	Shallow	Other	None	Large	0.008
Douglas-fir (west OR)	Mesic	Shallow	Other	Increase	Small	0.056
Douglas-fir (west OR)	Mesic	Shallow	Other	Increase	Medium	0.025
Douglas-fir (west OR)	Mesic	Shallow	Other	Increase	Large	0.008
Douglas-fir (west OR)	Mesic	Shallow	Ridgetop	Decrease	Small	0.094
Douglas-fir (west OR)	Mesic	Shallow	Ridgetop	Decrease	Medium	0.042
Douglas-fir (west OR)	Mesic	Shallow	Ridgetop	Decrease	Large	0.014
Douglas-fir (west OR)	Mesic	Shallow	Ridgetop	None	Small	0.094
Douglas-fir (west OR)	Mesic	Shallow	Ridgetop	None	Medium	0.042
Douglas-fir (west OR)	Mesic	Shallow	Ridgetop	None	Large	0.014
Douglas-fir (west OR)	Mesic	Shallow	Ridgetop	Increase	Small	0.094
Douglas-fir (west OR)	Mesic	Shallow	Ridgetop	Increase	Medium	0.042
Douglas-fir (west OR)	Mesic	Shallow	Ridgetop	Increase	Large	0.014
Douglas-fir (west OR)	Dry	Other	Other	Decrease	Small	0.046
Douglas-fir (west OR)	Dry	Other	Other	Decrease	Medium	0.020
Douglas-fir (west OR)	Dry	Other	Other	Decrease	Large	0.007
Douglas-fir (west OR)	Dry	Other	Other	None	Small	0.052
Douglas-fir (west OR)	Dry	Other	Other	None	Medium	0.023
Douglas-fir (west OR)	Dry	Other	Other	None	Large	0.008

Species group	Soil moisture	Soil depth	Slope Position	Decay rate adjustment	Snag dbh	Snag fall rate
Douglas-fir (west OR)	Dry	Other	Other	Increase	Small	0.056
Douglas-fir (west OR)	Dry	Other	Other	Increase	Medium	0.025
Douglas-fir (west OR)	Dry	Other	Other	Increase	Large	0.008
Douglas-fir (west OR)	Dry	Other	Ridgetop	Decrease	Small	0.087
Douglas-fir (west OR)	Dry	Other	Ridgetop	Decrease	Medium	0.039
Douglas-fir (west OR)	Dry	Other	Ridgetop	Decrease	Large	0.013
Douglas-fir (west OR)	Dry	Other	Ridgetop	None	Small	0.087
Douglas-fir (west OR)	Dry	Other	Ridgetop	None	Medium	0.039
Douglas-fir (west OR)	Dry	Other	Ridgetop	None	Large	0.013
Douglas-fir (west OR)	Dry	Other	Ridgetop	Increase	Small	0.089
Douglas-fir (west OR)	Dry	Other	Ridgetop	Increase	Medium	0.040
Douglas-fir (west OR)	Dry	Other	Ridgetop	Increase	Large	0.013
Douglas-fir (west OR)	Dry	Shallow	Other	Decrease	Small	0.052
Douglas-fir (west OR)	Dry	Shallow	Other	Decrease	Medium	0.023
Douglas-fir (west OR)	Dry	Shallow	Other	Decrease	Large	0.008
Douglas-fir (west OR)	Dry	Shallow	Other	None	Small	0.056
Douglas-fir (west OR)	Dry	Shallow	Other	None	Medium	0.025
Douglas-fir (west OR)	Dry	Shallow	Other	None	Large	0.008
Douglas-fir (west OR)	Dry	Shallow	Other	Increase	Small	0.056
Douglas-fir (west OR)	Dry	Shallow	Other	Increase	Medium	0.025
Douglas-fir (west OR)	Dry	Shallow	Other	Increase	Large	0.008
Douglas-fir (west OR)	Dry	Shallow	Ridgetop	Decrease	Small	0.094
Douglas-fir (west OR)	Dry	Shallow	Ridgetop	Decrease	Medium	0.042
Douglas-fir (west OR)	Dry	Shallow	Ridgetop	Decrease	Large	0.014
Douglas-fir (west OR)	Dry	Shallow	Ridgetop	None	Small	0.094
Douglas-fir (west OR)	Dry	Shallow	Ridgetop	None	Medium	0.042
Douglas-fir (west OR)	Dry	Shallow	Ridgetop	None	Large	0.014
Douglas-fir (west OR)	Dry	Shallow	Ridgetop	Increase	Small	0.094
Douglas-fir (west OR)	Dry	Shallow	Ridgetop	Increase	Medium	0.042
Douglas-fir (west OR)	Dry	Shallow	Ridgetop	Increase	Large	0.014
Douglas-fir (west WA)	Wet	Other	Other	Decrease	Small	0.032
Douglas-fir (west WA)	Wet	Other	Other	Decrease	Medium	0.016
Douglas-fir (west WA)	Wet	Other	Other	Decrease	Large	0.009
Douglas-fir (west WA)	Wet	Other	Other	None	Small	0.035
Douglas-fir (west WA)	Wet	Other	Other	None	Medium	0.018
Douglas-fir (west WA)	Wet	Other	Other	None	Large	0.010
Douglas-fir (west WA)	Wet	Other	Other	Increase	Small	0.043
Douglas-fir (west WA)	Wet	Other	Other	Increase	Medium	0.022
Douglas-fir (west WA)	Wet	Other	Other	Increase	Large	0.012
Douglas-fir (west WA)	Wet	Other	Ridgetop	Decrease	Small	0.056
Douglas-fir (west WA)	Wet	Other	Ridgetop	Decrease	Medium	0.028

Species group	Soil moisture	Soil depth	Slope Position	Decay rate adjustment	Snag dbh	Snag fall rate
Douglas-fir (west WA)	Wet	Other	Ridgetop	Decrease	Large	0.016
Douglas-fir (west WA)	Wet	Other	Ridgetop	None	Small	0.058
Douglas-fir (west WA)	Wet	Other	Ridgetop	None	Medium	0.029
Douglas-fir (west WA)	Wet	Other	Ridgetop	None	Large	0.016
Douglas-fir (west WA)	Wet	Other	Ridgetop	Increase	Small	0.061
Douglas-fir (west WA)	Wet	Other	Ridgetop	Increase	Medium	0.031
Douglas-fir (west WA)	Wet	Other	Ridgetop	Increase	Large	0.017
Douglas-fir (west WA)	Wet	Shallow	Other	Decrease	Small	0.040
Douglas-fir (west WA)	Wet	Shallow	Other	Decrease	Medium	0.020
Douglas-fir (west WA)	Wet	Shallow	Other	Decrease	Large	0.011
Douglas-fir (west WA)	Wet	Shallow	Other	None	Small	0.043
Douglas-fir (west WA)	Wet	Shallow	Other	None	Medium	0.022
Douglas-fir (west WA)	Wet	Shallow	Other	None	Large	0.012
Douglas-fir (west WA)	Wet	Shallow	Other	Increase	Small	0.043
Douglas-fir (west WA)	Wet	Shallow	Other	Increase	Medium	0.022
Douglas-fir (west WA)	Wet	Shallow	Other	Increase	Large	0.012
Douglas-fir (west WA)	Wet	Shallow	Ridgetop	Decrease	Small	0.072
Douglas-fir (west WA)	Wet	Shallow	Ridgetop	Decrease	Medium	0.036
Douglas-fir (west WA)	Wet	Shallow	Ridgetop	Decrease	Large	0.020
Douglas-fir (west WA)	Wet	Shallow	Ridgetop	None	Small	0.072
Douglas-fir (west WA)	Wet	Shallow	Ridgetop	None	Medium	0.036
Douglas-fir (west WA)	Wet	Shallow	Ridgetop	None	Large	0.020
Douglas-fir (west WA)	Wet	Shallow	Ridgetop	Increase	Small	0.072
Douglas-fir (west WA)	Wet	Shallow	Ridgetop	Increase	Medium	0.036
Douglas-fir (west WA)	Wet	Shallow	Ridgetop	Increase	Large	0.020
Douglas-fir (west WA)	Mesic	Other	Other	Decrease	Small	0.032
Douglas-fir (west WA)	Mesic	Other	Other	Decrease	Medium	0.016
Douglas-fir (west WA)	Mesic	Other	Other	Decrease	Large	0.009
Douglas-fir (west WA)	Mesic	Other	Other	None	Small	0.036
Douglas-fir (west WA)	Mesic	Other	Other	None	Medium	0.018
Douglas-fir (west WA)	Mesic	Other	Other	None	Large	0.010
Douglas-fir (west WA)	Mesic	Other	Other	Increase	Small	0.043
Douglas-fir (west WA)	Mesic	Other	Other	Increase	Medium	0.022
Douglas-fir (west WA)	Mesic	Other	Other	Increase	Large	0.012
Douglas-fir (west WA)	Mesic	Other	Ridgetop	Decrease	Small	0.061
Douglas-fir (west WA)	Mesic	Other	Ridgetop	Decrease	Medium	0.031
Douglas-fir (west WA)	Mesic	Other	Ridgetop	Decrease	Large	0.017
Douglas-fir (west WA)	Mesic	Other	Ridgetop	None	Small	0.061
Douglas-fir (west WA)	Mesic	Other	Ridgetop	None	Medium	0.031
Douglas-fir (west WA)	Mesic	Other	Ridgetop	None	Large	0.017
Douglas-fir (west WA)	Mesic	Other	Ridgetop	Increase	Small	0.065



Species group	Soil moisture	Soil depth	Slope Position	Decay rate adjustment	Snag dbh	Snag fall rate
Douglas-fir (west WA)	Mesic	Other	Ridgetop	Increase	Medium	0.032
Douglas-fir (west WA)	Mesic	Other	Ridgetop	Increase	Large	0.018
Douglas-fir (west WA)	Mesic	Shallow	Other	Decrease	Small	0.040
Douglas-fir (west WA)	Mesic	Shallow	Other	Decrease	Medium	0.020
Douglas-fir (west WA)	Mesic	Shallow	Other	Decrease	Large	0.011
Douglas-fir (west WA)	Mesic	Shallow	Other	None	Small	0.043
Douglas-fir (west WA)	Mesic	Shallow	Other	None	Medium	0.022
Douglas-fir (west WA)	Mesic	Shallow	Other	None	Large	0.012
Douglas-fir (west WA)	Mesic	Shallow	Other	Increase	Small	0.043
Douglas-fir (west WA)	Mesic	Shallow	Other	Increase	Medium	0.022
Douglas-fir (west WA)	Mesic	Shallow	Other	Increase	Large	0.012
Douglas-fir (west WA)	Mesic	Shallow	Ridgetop	Decrease	Small	0.072
Douglas-fir (west WA)	Mesic	Shallow	Ridgetop	Decrease	Medium	0.036
Douglas-fir (west WA)	Mesic	Shallow	Ridgetop	Decrease	Large	0.020
Douglas-fir (west WA)	Mesic	Shallow	Ridgetop	None	Small	0.072
Douglas-fir (west WA)	Mesic	Shallow	Ridgetop	None	Medium	0.036
Douglas-fir (west WA)	Mesic	Shallow	Ridgetop	None	Large	0.020
Douglas-fir (west WA)	Mesic	Shallow	Ridgetop	Increase	Small	0.072
Douglas-fir (west WA)	Mesic	Shallow	Ridgetop	Increase	Medium	0.036
Douglas-fir (west WA)	Mesic	Shallow	Ridgetop	Increase	Large	0.020
Douglas-fir (west WA)	Dry	Other	Other	Decrease	Small	0.035
Douglas-fir (west WA)	Dry	Other	Other	Decrease	Medium	0.018
Douglas-fir (west WA)	Dry	Other	Other	Decrease	Large	0.010
Douglas-fir (west WA)	Dry	Other	Other	None	Small	0.040
Douglas-fir (west WA)	Dry	Other	Other	None	Medium	0.020
Douglas-fir (west WA)	Dry	Other	Other	None	Large	0.011
Douglas-fir (west WA)	Dry	Other	Other	Increase	Small	0.043
Douglas-fir (west WA)	Dry	Other	Other	Increase	Medium	0.022
Douglas-fir (west WA)	Dry	Other	Other	Increase	Large	0.012
Douglas-fir (west WA)	Dry	Other	Ridgetop	Decrease	Small	0.067
Douglas-fir (west WA)	Dry	Other	Ridgetop	Decrease	Medium	0.033
Douglas-fir (west WA)	Dry	Other	Ridgetop	Decrease	Large	0.019
Douglas-fir (west WA)	Dry	Other	Ridgetop	None	Small	0.067
Douglas-fir (west WA)	Dry	Other	Ridgetop	None	Medium	0.033
Douglas-fir (west WA)	Dry	Other	Ridgetop	None	Large	0.019
Douglas-fir (west WA)	Dry	Other	Ridgetop	Increase	Small	0.068
Douglas-fir (west WA)	Dry	Other	Ridgetop	Increase	Medium	0.034
Douglas-fir (west WA)	Dry	Other	Ridgetop	Increase	Large	0.019
Douglas-fir (west WA)	Dry	Shallow	Other	Decrease	Small	0.040
Douglas-fir (west WA)	Dry	Shallow	Other	Decrease	Medium	0.020
Douglas-fir (west WA)	Dry	Shallow	Other	Decrease	Large	0.011

Species group	Soil moisture	Soil depth	Slope Position	Decay rate adjustment	Snag dbh	Snag fall rate
Douglas-fir (west WA)	Dry	Shallow	Other	None	Small	0.043
Douglas-fir (west WA)	Dry	Shallow	Other	None	Medium	0.022
Douglas-fir (west WA)	Dry	Shallow	Other	None	Large	0.012
Douglas-fir (west WA)	Dry	Shallow	Other	Increase	Small	0.043
Douglas-fir (west WA)	Dry	Shallow	Other	Increase	Medium	0.022
Douglas-fir (west WA)	Dry	Shallow	Other	Increase	Large	0.012
Douglas-fir (west WA)	Dry	Shallow	Ridgetop	Decrease	Small	0.072
Douglas-fir (west WA)	Dry	Shallow	Ridgetop	Decrease	Medium	0.036
Douglas-fir (west WA)	Dry	Shallow	Ridgetop	Decrease	Large	0.020
Douglas-fir (west WA)	Dry	Shallow	Ridgetop	None	Small	0.072
Douglas-fir (west WA)	Dry	Shallow	Ridgetop	None	Medium	0.036
Douglas-fir (west WA)	Dry	Shallow	Ridgetop	None	Large	0.020
Douglas-fir (west WA)	Dry	Shallow	Ridgetop	Increase	Small	0.072
Douglas-fir (west WA)	Dry	Shallow	Ridgetop	Increase	Medium	0.036
Douglas-fir (west WA)	Dry	Shallow	Ridgetop	Increase	Large	0.020
Douglas-fir (east OR)	Wet	Other	Other	Decrease	Small	0.067
Douglas-fir (east OR)	Wet	Other	Other	Decrease	Medium	0.028
Douglas-fir (east OR)	Wet	Other	Other	Decrease	Large	0.016
Douglas-fir (east OR)	Wet	Other	Other	None	Small	0.074
Douglas-fir (east OR)	Wet	Other	Other	None	Medium	0.031
Douglas-fir (east OR)	Wet	Other	Other	None	Large	0.018
Douglas-fir (east OR)	Wet	Other	Other	Increase	Small	0.091
Douglas-fir (east OR)	Wet	Other	Other	Increase	Medium	0.038
Douglas-fir (east OR)	Wet	Other	Other	Increase	Large	0.022
Douglas-fir (east OR)	Wet	Other	Ridgetop	Decrease	Small	0.118
Douglas-fir (east OR)	Wet	Other	Ridgetop	Decrease	Medium	0.050
Douglas-fir (east OR)	Wet	Other	Ridgetop	Decrease	Large	0.028
Douglas-fir (east OR)	Wet	Other	Ridgetop	None	Small	0.122
Douglas-fir (east OR)	Wet	Other	Ridgetop	None	Medium	0.051
Douglas-fir (east OR)	Wet	Other	Ridgetop	None	Large	0.029
Douglas-fir (east OR)	Wet	Other	Ridgetop	Increase	Small	0.129
Douglas-fir (east OR)	Wet	Other	Ridgetop	Increase	Medium	0.054
Douglas-fir (east OR)	Wet	Other	Ridgetop	Increase	Large	0.031
Douglas-fir (east OR)	Wet	Shallow	Other	Decrease	Small	0.084
Douglas-fir (east OR)	Wet	Shallow	Other	Decrease	Medium	0.035
Douglas-fir (east OR)	Wet	Shallow	Other	Decrease	Large	0.020
Douglas-fir (east OR)	Wet	Shallow	Other	None	Small	0.091
Douglas-fir (east OR)	Wet	Shallow	Other	None	Medium	0.038
Douglas-fir (east OR)	Wet	Shallow	Other	None	Large	0.022
Douglas-fir (east OR)	Wet	Shallow	Other	Increase	Small	0.091
Douglas-fir (east OR)	Wet	Shallow	Other	Increase	Medium	0.038

Species group	Soil moisture	Soil depth	Slope Position	Decay rate adjustment	Snag dbh	Snag fall rate
Douglas-fir (east OR)	Wet	Shallow	Other	Increase	Large	0.022
Douglas-fir (east OR)	Wet	Shallow	Ridgetop	Decrease	Small	0.152
Douglas-fir (east OR)	Wet	Shallow	Ridgetop	Decrease	Medium	0.064
Douglas-fir (east OR)	Wet	Shallow	Ridgetop	Decrease	Large	0.036
Douglas-fir (east OR)	Wet	Shallow	Ridgetop	None	Small	0.152
Douglas-fir (east OR)	Wet	Shallow	Ridgetop	None	Medium	0.064
Douglas-fir (east OR)	Wet	Shallow	Ridgetop	None	Large	0.036
Douglas-fir (east OR)	Wet	Shallow	Ridgetop	Increase	Small	0.152
Douglas-fir (east OR)	Wet	Shallow	Ridgetop	Increase	Medium	0.064
Douglas-fir (east OR)	Wet	Shallow	Ridgetop	Increase	Large	0.036
Douglas-fir (east OR)	Mesic	Other	Other	Decrease	Small	0.068
Douglas-fir (east OR)	Mesic	Other	Other	Decrease	Medium	0.029
Douglas-fir (east OR)	Mesic	Other	Other	Decrease	Large	0.016
Douglas-fir (east OR)	Mesic	Other	Other	None	Small	0.076
Douglas-fir (east OR)	Mesic	Other	Other	None	Medium	0.032
Douglas-fir (east OR)	Mesic	Other	Other	None	Large	0.018
Douglas-fir (east OR)	Mesic	Other	Other	Increase	Small	0.091
Douglas-fir (east OR)	Mesic	Other	Other	Increase	Medium	0.038
Douglas-fir (east OR)	Mesic	Other	Other	Increase	Large	0.022
Douglas-fir (east OR)	Mesic	Other	Ridgetop	Decrease	Small	0.129
Douglas-fir (east OR)	Mesic	Other	Ridgetop	Decrease	Medium	0.054
Douglas-fir (east OR)	Mesic	Other	Ridgetop	Decrease	Large	0.031
Douglas-fir (east OR)	Mesic	Other	Ridgetop	None	Small	0.129
Douglas-fir (east OR)	Mesic	Other	Ridgetop	None	Medium	0.054
Douglas-fir (east OR)	Mesic	Other	Ridgetop	None	Large	0.031
Douglas-fir (east OR)	Mesic	Other	Ridgetop	Increase	Small	0.137
Douglas-fir (east OR)	Mesic	Other	Ridgetop	Increase	Medium	0.058
Douglas-fir (east OR)	Mesic	Other	Ridgetop	Increase	Large	0.032
Douglas-fir (east OR)	Mesic	Shallow	Other	Decrease	Small	0.084
Douglas-fir (east OR)	Mesic	Shallow	Other	Decrease	Medium	0.035
Douglas-fir (east OR)	Mesic	Shallow	Other	Decrease	Large	0.020
Douglas-fir (east OR)	Mesic	Shallow	Other	None	Small	0.091
Douglas-fir (east OR)	Mesic	Shallow	Other	None	Medium	0.038
Douglas-fir (east OR)	Mesic	Shallow	Other	None	Large	0.022
Douglas-fir (east OR)	Mesic	Shallow	Other	Increase	Small	0.091
Douglas-fir (east OR)	Mesic	Shallow	Other	Increase	Medium	0.038
Douglas-fir (east OR)	Mesic	Shallow	Other	Increase	Large	0.022
Douglas-fir (east OR)	Mesic	Shallow	Ridgetop	Decrease	Small	0.152
Douglas-fir (east OR)	Mesic	Shallow	Ridgetop	Decrease	Medium	0.064
Douglas-fir (east OR)	Mesic	Shallow	Ridgetop	Decrease	Large	0.036
Douglas-fir (east OR)	Mesic	Shallow	Ridgetop	None	Small	0.152

<b>Species group</b>	<b>Soil moisture</b>	<b>Soil depth</b>	<b>Slope Position</b>	<b>Decay rate adjustment</b>	<b>Snag dbh</b>	<b>Snag fall rate</b>
Douglas-fir (east OR)	Mesic	Shallow	Ridgetop	None	Medium	0.064
Douglas-fir (east OR)	Mesic	Shallow	Ridgetop	None	Large	0.036
Douglas-fir (east OR)	Mesic	Shallow	Ridgetop	Increase	Small	0.152
Douglas-fir (east OR)	Mesic	Shallow	Ridgetop	Increase	Medium	0.064
Douglas-fir (east OR)	Mesic	Shallow	Ridgetop	Increase	Large	0.036
Douglas-fir (east OR)	Dry	Other	Other	Decrease	Small	0.074
Douglas-fir (east OR)	Dry	Other	Other	Decrease	Medium	0.031
Douglas-fir (east OR)	Dry	Other	Other	Decrease	Large	0.018
Douglas-fir (east OR)	Dry	Other	Other	None	Small	0.084
Douglas-fir (east OR)	Dry	Other	Other	None	Medium	0.035
Douglas-fir (east OR)	Dry	Other	Other	None	Large	0.020
Douglas-fir (east OR)	Dry	Other	Other	Increase	Small	0.091
Douglas-fir (east OR)	Dry	Other	Other	Increase	Medium	0.038
Douglas-fir (east OR)	Dry	Other	Other	Increase	Large	0.022
Douglas-fir (east OR)	Dry	Other	Ridgetop	Decrease	Small	0.141
Douglas-fir (east OR)	Dry	Other	Ridgetop	Decrease	Medium	0.059
Douglas-fir (east OR)	Dry	Other	Ridgetop	Decrease	Large	0.033
Douglas-fir (east OR)	Dry	Other	Ridgetop	None	Small	0.141
Douglas-fir (east OR)	Dry	Other	Ridgetop	None	Medium	0.059
Douglas-fir (east OR)	Dry	Other	Ridgetop	None	Large	0.033
Douglas-fir (east OR)	Dry	Other	Ridgetop	Increase	Small	0.144
Douglas-fir (east OR)	Dry	Other	Ridgetop	Increase	Medium	0.061
Douglas-fir (east OR)	Dry	Other	Ridgetop	Increase	Large	0.034
Douglas-fir (east OR)	Dry	Shallow	Other	Decrease	Small	0.084
Douglas-fir (east OR)	Dry	Shallow	Other	Decrease	Medium	0.035
Douglas-fir (east OR)	Dry	Shallow	Other	Decrease	Large	0.020
Douglas-fir (east OR)	Dry	Shallow	Other	None	Small	0.091
Douglas-fir (east OR)	Dry	Shallow	Other	None	Medium	0.038
Douglas-fir (east OR)	Dry	Shallow	Other	None	Large	0.022
Douglas-fir (east OR)	Dry	Shallow	Other	Increase	Small	0.091
Douglas-fir (east OR)	Dry	Shallow	Other	Increase	Medium	0.038
Douglas-fir (east OR)	Dry	Shallow	Other	Increase	Large	0.022
Douglas-fir (east OR)	Dry	Shallow	Ridgetop	Decrease	Small	0.152
Douglas-fir (east OR)	Dry	Shallow	Ridgetop	Decrease	Medium	0.064
Douglas-fir (east OR)	Dry	Shallow	Ridgetop	Decrease	Large	0.036
Douglas-fir (east OR)	Dry	Shallow	Ridgetop	None	Small	0.152
Douglas-fir (east OR)	Dry	Shallow	Ridgetop	None	Medium	0.064
Douglas-fir (east OR)	Dry	Shallow	Ridgetop	None	Large	0.036
Douglas-fir (east OR)	Dry	Shallow	Ridgetop	Increase	Small	0.152
Douglas-fir (east OR)	Dry	Shallow	Ridgetop	Increase	Medium	0.064
Douglas-fir (east OR)	Dry	Shallow	Ridgetop	Increase	Large	0.036

Species group	Soil moisture	Soil depth	Slope Position	Decay rate adjustment	Snag dbh	Snag fall rate
Douglas-fir (east WA)	Wet	Other	Other	Decrease	Small	0.051
Douglas-fir (east WA)	Wet	Other	Other	Decrease	Medium	0.022
Douglas-fir (east WA)	Wet	Other	Other	Decrease	Large	0.016
Douglas-fir (east WA)	Wet	Other	Other	None	Small	0.057
Douglas-fir (east WA)	Wet	Other	Other	None	Medium	0.024
Douglas-fir (east WA)	Wet	Other	Other	None	Large	0.018
Douglas-fir (east WA)	Wet	Other	Other	Increase	Small	0.070
Douglas-fir (east WA)	Wet	Other	Other	Increase	Medium	0.030
Douglas-fir (east WA)	Wet	Other	Other	Increase	Large	0.022
Douglas-fir (east WA)	Wet	Other	Ridgetop	Decrease	Small	0.090
Douglas-fir (east WA)	Wet	Other	Ridgetop	Decrease	Medium	0.039
Douglas-fir (east WA)	Wet	Other	Ridgetop	Decrease	Large	0.028
Douglas-fir (east WA)	Wet	Other	Ridgetop	None	Small	0.093
Douglas-fir (east WA)	Wet	Other	Ridgetop	None	Medium	0.040
Douglas-fir (east WA)	Wet	Other	Ridgetop	None	Large	0.029
Douglas-fir (east WA)	Wet	Other	Ridgetop	Increase	Small	0.099
Douglas-fir (east WA)	Wet	Other	Ridgetop	Increase	Medium	0.043
Douglas-fir (east WA)	Wet	Other	Ridgetop	Increase	Large	0.031
Douglas-fir (east WA)	Wet	Shallow	Other	Decrease	Small	0.064
Douglas-fir (east WA)	Wet	Shallow	Other	Decrease	Medium	0.028
Douglas-fir (east WA)	Wet	Shallow	Other	Decrease	Large	0.020
Douglas-fir (east WA)	Wet	Shallow	Other	None	Small	0.070
Douglas-fir (east WA)	Wet	Shallow	Other	None	Medium	0.030
Douglas-fir (east WA)	Wet	Shallow	Other	None	Large	0.022
Douglas-fir (east WA)	Wet	Shallow	Other	Increase	Small	0.070
Douglas-fir (east WA)	Wet	Shallow	Other	Increase	Medium	0.030
Douglas-fir (east WA)	Wet	Shallow	Other	Increase	Large	0.022
Douglas-fir (east WA)	Wet	Shallow	Ridgetop	Decrease	Small	0.116
Douglas-fir (east WA)	Wet	Shallow	Ridgetop	Decrease	Medium	0.050
Douglas-fir (east WA)	Wet	Shallow	Ridgetop	Decrease	Large	0.036
Douglas-fir (east WA)	Wet	Shallow	Ridgetop	None	Small	0.116
Douglas-fir (east WA)	Wet	Shallow	Ridgetop	None	Medium	0.050
Douglas-fir (east WA)	Wet	Shallow	Ridgetop	None	Large	0.036
Douglas-fir (east WA)	Wet	Shallow	Ridgetop	Increase	Small	0.116
Douglas-fir (east WA)	Wet	Shallow	Ridgetop	Increase	Medium	0.050
Douglas-fir (east WA)	Wet	Shallow	Ridgetop	Increase	Large	0.036
Douglas-fir (east WA)	Mesic	Other	Other	Decrease	Small	0.052
Douglas-fir (east WA)	Mesic	Other	Other	Decrease	Medium	0.023
Douglas-fir (east WA)	Mesic	Other	Other	Decrease	Large	0.016
Douglas-fir (east WA)	Mesic	Other	Other	None	Small	0.058
Douglas-fir (east WA)	Mesic	Other	Other	None	Medium	0.025

Species group	Soil moisture	Soil depth	Slope Position	Decay rate adjustment	Snag dbh	Snag fall rate
Douglas-fir (east WA)	Mesic	Other	Other	None	Large	0.018
Douglas-fir (east WA)	Mesic	Other	Other	Increase	Small	0.070
Douglas-fir (east WA)	Mesic	Other	Other	Increase	Medium	0.030
Douglas-fir (east WA)	Mesic	Other	Other	Increase	Large	0.022
Douglas-fir (east WA)	Mesic	Other	Ridgetop	Decrease	Small	0.099
Douglas-fir (east WA)	Mesic	Other	Ridgetop	Decrease	Medium	0.043
Douglas-fir (east WA)	Mesic	Other	Ridgetop	Decrease	Large	0.031
Douglas-fir (east WA)	Mesic	Other	Ridgetop	None	Small	0.099
Douglas-fir (east WA)	Mesic	Other	Ridgetop	None	Medium	0.043
Douglas-fir (east WA)	Mesic	Other	Ridgetop	None	Large	0.031
Douglas-fir (east WA)	Mesic	Other	Ridgetop	Increase	Small	0.104
Douglas-fir (east WA)	Mesic	Other	Ridgetop	Increase	Medium	0.045
Douglas-fir (east WA)	Mesic	Other	Ridgetop	Increase	Large	0.032
Douglas-fir (east WA)	Mesic	Shallow	Other	Decrease	Small	0.064
Douglas-fir (east WA)	Mesic	Shallow	Other	Decrease	Medium	0.028
Douglas-fir (east WA)	Mesic	Shallow	Other	Decrease	Large	0.020
Douglas-fir (east WA)	Mesic	Shallow	Other	None	Small	0.070
Douglas-fir (east WA)	Mesic	Shallow	Other	None	Medium	0.030
Douglas-fir (east WA)	Mesic	Shallow	Other	None	Large	0.022
Douglas-fir (east WA)	Mesic	Shallow	Other	Increase	Small	0.070
Douglas-fir (east WA)	Mesic	Shallow	Other	Increase	Medium	0.030
Douglas-fir (east WA)	Mesic	Shallow	Other	Increase	Large	0.022
Douglas-fir (east WA)	Mesic	Shallow	Ridgetop	Decrease	Small	0.116
Douglas-fir (east WA)	Mesic	Shallow	Ridgetop	Decrease	Medium	0.050
Douglas-fir (east WA)	Mesic	Shallow	Ridgetop	Decrease	Large	0.036
Douglas-fir (east WA)	Mesic	Shallow	Ridgetop	None	Small	0.116
Douglas-fir (east WA)	Mesic	Shallow	Ridgetop	None	Medium	0.050
Douglas-fir (east WA)	Mesic	Shallow	Ridgetop	None	Large	0.036
Douglas-fir (east WA)	Mesic	Shallow	Ridgetop	Increase	Small	0.116
Douglas-fir (east WA)	Mesic	Shallow	Ridgetop	Increase	Medium	0.050
Douglas-fir (east WA)	Mesic	Shallow	Ridgetop	Increase	Large	0.036
Douglas-fir (east WA)	Dry	Other	Other	Decrease	Small	0.057
Douglas-fir (east WA)	Dry	Other	Other	Decrease	Medium	0.024
Douglas-fir (east WA)	Dry	Other	Other	Decrease	Large	0.018
Douglas-fir (east WA)	Dry	Other	Other	None	Small	0.064
Douglas-fir (east WA)	Dry	Other	Other	None	Medium	0.028
Douglas-fir (east WA)	Dry	Other	Other	None	Large	0.020
Douglas-fir (east WA)	Dry	Other	Other	Increase	Small	0.070
Douglas-fir (east WA)	Dry	Other	Other	Increase	Medium	0.030
Douglas-fir (east WA)	Dry	Other	Other	Increase	Large	0.022
Douglas-fir (east WA)	Dry	Other	Ridgetop	Decrease	Small	0.107



Species group	Soil moisture	Soil depth	Slope Position	Decay rate adjustment	Snag dbh	Snag fall rate
Douglas-fir (east WA)	Dry	Other	Ridgetop	Decrease	Medium	0.046
Douglas-fir (east WA)	Dry	Other	Ridgetop	Decrease	Large	0.033
Douglas-fir (east WA)	Dry	Other	Ridgetop	None	Small	0.107
Douglas-fir (east WA)	Dry	Other	Ridgetop	None	Medium	0.046
Douglas-fir (east WA)	Dry	Other	Ridgetop	None	Large	0.033
Douglas-fir (east WA)	Dry	Other	Ridgetop	Increase	Small	0.110
Douglas-fir (east WA)	Dry	Other	Ridgetop	Increase	Medium	0.048
Douglas-fir (east WA)	Dry	Other	Ridgetop	Increase	Large	0.034
Douglas-fir (east WA)	Dry	Shallow	Other	Decrease	Small	0.064
Douglas-fir (east WA)	Dry	Shallow	Other	Decrease	Medium	0.028
Douglas-fir (east WA)	Dry	Shallow	Other	Decrease	Large	0.020
Douglas-fir (east WA)	Dry	Shallow	Other	None	Small	0.070
Douglas-fir (east WA)	Dry	Shallow	Other	None	Medium	0.030
Douglas-fir (east WA)	Dry	Shallow	Other	None	Large	0.022
Douglas-fir (east WA)	Dry	Shallow	Other	Increase	Small	0.070
Douglas-fir (east WA)	Dry	Shallow	Other	Increase	Medium	0.030
Douglas-fir (east WA)	Dry	Shallow	Other	Increase	Large	0.022
Douglas-fir (east WA)	Dry	Shallow	Ridgetop	Decrease	Small	0.116
Douglas-fir (east WA)	Dry	Shallow	Ridgetop	Decrease	Medium	0.050
Douglas-fir (east WA)	Dry	Shallow	Ridgetop	Decrease	Large	0.036
Douglas-fir (east WA)	Dry	Shallow	Ridgetop	None	Small	0.116
Douglas-fir (east WA)	Dry	Shallow	Ridgetop	None	Medium	0.050
Douglas-fir (east WA)	Dry	Shallow	Ridgetop	None	Large	0.036
Douglas-fir (east WA)	Dry	Shallow	Ridgetop	Increase	Small	0.116
Douglas-fir (east WA)	Dry	Shallow	Ridgetop	Increase	Medium	0.050
Douglas-fir (east WA)	Dry	Shallow	Ridgetop	Increase	Large	0.036
Western white pine	Wet	Other	Other	Decrease	Small	0.030
Western white pine	Wet	Other	Other	Decrease	Medium	0.012
Western white pine	Wet	Other	Other	Decrease	Large	0.011
Western white pine	Wet	Other	Other	None	Small	0.033
Western white pine	Wet	Other	Other	None	Medium	0.014
Western white pine	Wet	Other	Other	None	Large	0.012
Western white pine	Wet	Other	Other	Increase	Small	0.041
Western white pine	Wet	Other	Other	Increase	Medium	0.017
Western white pine	Wet	Other	Other	Increase	Large	0.014
Western white pine	Wet	Other	Ridgetop	Decrease	Small	0.053
Western white pine	Wet	Other	Ridgetop	Decrease	Medium	0.022
Western white pine	Wet	Other	Ridgetop	Decrease	Large	0.019
Western white pine	Wet	Other	Ridgetop	None	Small	0.054
Western white pine	Wet	Other	Ridgetop	None	Medium	0.022
Western white pine	Wet	Other	Ridgetop	None	Large	0.019

Species group	Soil moisture	Soil depth	Slope Position	Decay rate adjustment	Snag dbh	Snag fall rate
Western white pine	Wet	Other	Ridgetop	Increase	Small	0.058
Western white pine	Wet	Other	Ridgetop	Increase	Medium	0.024
Western white pine	Wet	Other	Ridgetop	Increase	Large	0.020
Western white pine	Wet	Shallow	Other	Decrease	Small	0.037
Western white pine	Wet	Shallow	Other	Decrease	Medium	0.015
Western white pine	Wet	Shallow	Other	Decrease	Large	0.013
Western white pine	Wet	Shallow	Other	None	Small	0.041
Western white pine	Wet	Shallow	Other	None	Medium	0.017
Western white pine	Wet	Shallow	Other	None	Large	0.014
Western white pine	Wet	Shallow	Other	Increase	Small	0.041
Western white pine	Wet	Shallow	Other	Increase	Medium	0.017
Western white pine	Wet	Shallow	Other	Increase	Large	0.014
Western white pine	Wet	Shallow	Ridgetop	Decrease	Small	0.068
Western white pine	Wet	Shallow	Ridgetop	Decrease	Medium	0.028
Western white pine	Wet	Shallow	Ridgetop	Decrease	Large	0.024
Western white pine	Wet	Shallow	Ridgetop	None	Small	0.068
Western white pine	Wet	Shallow	Ridgetop	None	Medium	0.028
Western white pine	Wet	Shallow	Ridgetop	None	Large	0.024
Western white pine	Wet	Shallow	Ridgetop	Increase	Small	0.068
Western white pine	Wet	Shallow	Ridgetop	Increase	Medium	0.028
Western white pine	Wet	Shallow	Ridgetop	Increase	Large	0.024
Western white pine	Mesic	Other	Other	Decrease	Small	0.031
Western white pine	Mesic	Other	Other	Decrease	Medium	0.013
Western white pine	Mesic	Other	Other	Decrease	Large	0.011
Western white pine	Mesic	Other	Other	None	Small	0.034
Western white pine	Mesic	Other	Other	None	Medium	0.014
Western white pine	Mesic	Other	Other	None	Large	0.012
Western white pine	Mesic	Other	Other	Increase	Small	0.041
Western white pine	Mesic	Other	Other	Increase	Medium	0.017
Western white pine	Mesic	Other	Other	Increase	Large	0.014
Western white pine	Mesic	Other	Ridgetop	Decrease	Small	0.058
Western white pine	Mesic	Other	Ridgetop	Decrease	Medium	0.024
Western white pine	Mesic	Other	Ridgetop	Decrease	Large	0.020
Western white pine	Mesic	Other	Ridgetop	None	Small	0.058
Western white pine	Mesic	Other	Ridgetop	None	Medium	0.024
Western white pine	Mesic	Other	Ridgetop	None	Large	0.020
Western white pine	Mesic	Other	Ridgetop	Increase	Small	0.061
Western white pine	Mesic	Other	Ridgetop	Increase	Medium	0.025
Western white pine	Mesic	Other	Ridgetop	Increase	Large	0.022
Western white pine	Mesic	Shallow	Other	Decrease	Small	0.037
Western white pine	Mesic	Shallow	Other	Decrease	Medium	0.015



Species group	Soil moisture	Soil depth	Slope Position	Decay rate adjustment	Snag dbh	Snag fall rate
Western white pine	Mesic	Shallow	Other	Decrease	Large	0.013
Western white pine	Mesic	Shallow	Other	None	Small	0.041
Western white pine	Mesic	Shallow	Other	None	Medium	0.017
Western white pine	Mesic	Shallow	Other	None	Large	0.014
Western white pine	Mesic	Shallow	Other	Increase	Small	0.041
Western white pine	Mesic	Shallow	Other	Increase	Medium	0.017
Western white pine	Mesic	Shallow	Other	Increase	Large	0.014
Western white pine	Mesic	Shallow	Ridgetop	Decrease	Small	0.068
Western white pine	Mesic	Shallow	Ridgetop	Decrease	Medium	0.028
Western white pine	Mesic	Shallow	Ridgetop	Decrease	Large	0.024
Western white pine	Mesic	Shallow	Ridgetop	None	Small	0.068
Western white pine	Mesic	Shallow	Ridgetop	None	Medium	0.028
Western white pine	Mesic	Shallow	Ridgetop	None	Large	0.024
Western white pine	Mesic	Shallow	Ridgetop	Increase	Small	0.068
Western white pine	Mesic	Shallow	Ridgetop	Increase	Medium	0.028
Western white pine	Mesic	Shallow	Ridgetop	Increase	Large	0.024
Western white pine	Dry	Other	Other	Decrease	Small	0.033
Western white pine	Dry	Other	Other	Decrease	Medium	0.014
Western white pine	Dry	Other	Other	Decrease	Large	0.012
Western white pine	Dry	Other	Other	None	Small	0.037
Western white pine	Dry	Other	Other	None	Medium	0.015
Western white pine	Dry	Other	Other	None	Large	0.013
Western white pine	Dry	Other	Other	Increase	Small	0.041
Western white pine	Dry	Other	Other	Increase	Medium	0.017
Western white pine	Dry	Other	Other	Increase	Large	0.014
Western white pine	Dry	Other	Ridgetop	Decrease	Small	0.063
Western white pine	Dry	Other	Ridgetop	Decrease	Medium	0.026
Western white pine	Dry	Other	Ridgetop	Decrease	Large	0.022
Western white pine	Dry	Other	Ridgetop	None	Small	0.063
Western white pine	Dry	Other	Ridgetop	None	Medium	0.026
Western white pine	Dry	Other	Ridgetop	None	Large	0.022
Western white pine	Dry	Other	Ridgetop	Increase	Small	0.065
Western white pine	Dry	Other	Ridgetop	Increase	Medium	0.027
Western white pine	Dry	Other	Ridgetop	Increase	Large	0.023
Western white pine	Dry	Shallow	Other	Decrease	Small	0.037
Western white pine	Dry	Shallow	Other	Decrease	Medium	0.015
Western white pine	Dry	Shallow	Other	Decrease	Large	0.013
Western white pine	Dry	Shallow	Other	None	Small	0.041
Western white pine	Dry	Shallow	Other	None	Medium	0.017
Western white pine	Dry	Shallow	Other	None	Large	0.014
Western white pine	Dry	Shallow	Other	Increase	Small	0.041

Species group	Soil moisture	Soil depth	Slope Position	Decay rate adjustment	Snag dbh	Snag fall rate
Western white pine	Dry	Shallow	Other	Increase	Medium	0.017
Western white pine	Dry	Shallow	Other	Increase	Large	0.014
Western white pine	Dry	Shallow	Ridgetop	Decrease	Small	0.068
Western white pine	Dry	Shallow	Ridgetop	Decrease	Medium	0.028
Western white pine	Dry	Shallow	Ridgetop	Decrease	Large	0.024
Western white pine	Dry	Shallow	Ridgetop	None	Small	0.068
Western white pine	Dry	Shallow	Ridgetop	None	Medium	0.028
Western white pine	Dry	Shallow	Ridgetop	None	Large	0.024
Western white pine	Dry	Shallow	Ridgetop	Increase	Small	0.068
Western white pine	Dry	Shallow	Ridgetop	Increase	Medium	0.028
Western white pine	Dry	Shallow	Ridgetop	Increase	Large	0.024
Western larch	Wet	Other	Other	Decrease	Small	0.054
Western larch	Wet	Other	Other	Decrease	Medium	0.028
Western larch	Wet	Other	Other	Decrease	Large	0.025
Western larch	Wet	Other	Other	None	Small	0.060
Western larch	Wet	Other	Other	None	Medium	0.031
Western larch	Wet	Other	Other	None	Large	0.027
Western larch	Wet	Other	Other	Increase	Small	0.074
Western larch	Wet	Other	Other	Increase	Medium	0.038
Western larch	Wet	Other	Other	Increase	Large	0.034
Western larch	Wet	Other	Ridgetop	Decrease	Small	0.096
Western larch	Wet	Other	Ridgetop	Decrease	Medium	0.050
Western larch	Wet	Other	Ridgetop	Decrease	Large	0.043
Western larch	Wet	Other	Ridgetop	None	Small	0.099
Western larch	Wet	Other	Ridgetop	None	Medium	0.051
Western larch	Wet	Other	Ridgetop	None	Large	0.045
Western larch	Wet	Other	Ridgetop	Increase	Small	0.105
Western larch	Wet	Other	Ridgetop	Increase	Medium	0.054
Western larch	Wet	Other	Ridgetop	Increase	Large	0.048
Western larch	Wet	Shallow	Other	Decrease	Small	0.068
Western larch	Wet	Shallow	Other	Decrease	Medium	0.035
Western larch	Wet	Shallow	Other	Decrease	Large	0.031
Western larch	Wet	Shallow	Other	None	Small	0.074
Western larch	Wet	Shallow	Other	None	Medium	0.038
Western larch	Wet	Shallow	Other	None	Large	0.034
Western larch	Wet	Shallow	Other	Increase	Small	0.074
Western larch	Wet	Shallow	Other	Increase	Medium	0.038
Western larch	Wet	Shallow	Other	Increase	Large	0.034
Western larch	Wet	Shallow	Ridgetop	Decrease	Small	0.124
Western larch	Wet	Shallow	Ridgetop	Decrease	Medium	0.064
Western larch	Wet	Shallow	Ridgetop	Decrease	Large	0.056

Species group	Soil moisture	Soil depth	Slope Position	Decay rate adjustment	Snag dbh	Snag fall rate
Western larch	Wet	Shallow	Ridgetop	None	Small	0.124
Western larch	Wet	Shallow	Ridgetop	None	Medium	0.064
Western larch	Wet	Shallow	Ridgetop	None	Large	0.056
Western larch	Wet	Shallow	Ridgetop	Increase	Small	0.124
Western larch	Wet	Shallow	Ridgetop	Increase	Medium	0.064
Western larch	Wet	Shallow	Ridgetop	Increase	Large	0.056
Western larch	Mesic	Other	Other	Decrease	Small	0.056
Western larch	Mesic	Other	Other	Decrease	Medium	0.029
Western larch	Mesic	Other	Other	Decrease	Large	0.025
Western larch	Mesic	Other	Other	None	Small	0.062
Western larch	Mesic	Other	Other	None	Medium	0.032
Western larch	Mesic	Other	Other	None	Large	0.028
Western larch	Mesic	Other	Other	Increase	Small	0.074
Western larch	Mesic	Other	Other	Increase	Medium	0.038
Western larch	Mesic	Other	Other	Increase	Large	0.034
Western larch	Mesic	Other	Ridgetop	Decrease	Small	0.105
Western larch	Mesic	Other	Ridgetop	Decrease	Medium	0.054
Western larch	Mesic	Other	Ridgetop	Decrease	Large	0.048
Western larch	Mesic	Other	Ridgetop	None	Small	0.105
Western larch	Mesic	Other	Ridgetop	None	Medium	0.054
Western larch	Mesic	Other	Ridgetop	None	Large	0.048
Western larch	Mesic	Other	Ridgetop	Increase	Small	0.112
Western larch	Mesic	Other	Ridgetop	Increase	Medium	0.058
Western larch	Mesic	Other	Ridgetop	Increase	Large	0.050
Western larch	Mesic	Shallow	Other	Decrease	Small	0.068
Western larch	Mesic	Shallow	Other	Decrease	Medium	0.035
Western larch	Mesic	Shallow	Other	Decrease	Large	0.031
Western larch	Mesic	Shallow	Other	None	Small	0.074
Western larch	Mesic	Shallow	Other	None	Medium	0.038
Western larch	Mesic	Shallow	Other	None	Large	0.034
Western larch	Mesic	Shallow	Other	Increase	Small	0.074
Western larch	Mesic	Shallow	Other	Increase	Medium	0.038
Western larch	Mesic	Shallow	Other	Increase	Large	0.034
Western larch	Mesic	Shallow	Ridgetop	Decrease	Small	0.124
Western larch	Mesic	Shallow	Ridgetop	Decrease	Medium	0.064
Western larch	Mesic	Shallow	Ridgetop	Decrease	Large	0.056
Western larch	Mesic	Shallow	Ridgetop	None	Small	0.124
Western larch	Mesic	Shallow	Ridgetop	None	Medium	0.064
Western larch	Mesic	Shallow	Ridgetop	None	Large	0.056
Western larch	Mesic	Shallow	Ridgetop	Increase	Small	0.124
Western larch	Mesic	Shallow	Ridgetop	Increase	Medium	0.064

Species group	Soil moisture	Soil depth	Slope Position	Decay rate adjustment	Snag dbh	Snag fall rate
Western larch	Mesic	Shallow	Ridgetop	Increase	Large	0.056
Western larch	Dry	Other	Other	Decrease	Small	0.060
Western larch	Dry	Other	Other	Decrease	Medium	0.031
Western larch	Dry	Other	Other	Decrease	Large	0.027
Western larch	Dry	Other	Other	None	Small	0.068
Western larch	Dry	Other	Other	None	Medium	0.035
Western larch	Dry	Other	Other	None	Large	0.031
Western larch	Dry	Other	Other	Increase	Small	0.074
Western larch	Dry	Other	Other	Increase	Medium	0.038
Western larch	Dry	Other	Other	Increase	Large	0.034
Western larch	Dry	Other	Ridgetop	Decrease	Small	0.115
Western larch	Dry	Other	Ridgetop	Decrease	Medium	0.059
Western larch	Dry	Other	Ridgetop	Decrease	Large	0.052
Western larch	Dry	Other	Ridgetop	None	Small	0.115
Western larch	Dry	Other	Ridgetop	None	Medium	0.059
Western larch	Dry	Other	Ridgetop	None	Large	0.052
Western larch	Dry	Other	Ridgetop	Increase	Small	0.118
Western larch	Dry	Other	Ridgetop	Increase	Medium	0.061
Western larch	Dry	Other	Ridgetop	Increase	Large	0.053
Western larch	Dry	Shallow	Other	Decrease	Small	0.068
Western larch	Dry	Shallow	Other	Decrease	Medium	0.035
Western larch	Dry	Shallow	Other	Decrease	Large	0.031
Western larch	Dry	Shallow	Other	None	Small	0.074
Western larch	Dry	Shallow	Other	None	Medium	0.038
Western larch	Dry	Shallow	Other	None	Large	0.034
Western larch	Dry	Shallow	Other	Increase	Small	0.074
Western larch	Dry	Shallow	Other	Increase	Medium	0.038
Western larch	Dry	Shallow	Other	Increase	Large	0.034
Western larch	Dry	Shallow	Ridgetop	Decrease	Small	0.124
Western larch	Dry	Shallow	Ridgetop	Decrease	Medium	0.064
Western larch	Dry	Shallow	Ridgetop	Decrease	Large	0.056
Western larch	Dry	Shallow	Ridgetop	None	Small	0.124
Western larch	Dry	Shallow	Ridgetop	None	Medium	0.064
Western larch	Dry	Shallow	Ridgetop	None	Large	0.056
Western larch	Dry	Shallow	Ridgetop	Increase	Small	0.124
Western larch	Dry	Shallow	Ridgetop	Increase	Medium	0.064
Western larch	Dry	Shallow	Ridgetop	Increase	Large	0.056
Western redcedar	Wet	Other	Other	Decrease	Small	0.036
Western redcedar	Wet	Other	Other	Decrease	Medium	0.009
Western redcedar	Wet	Other	Other	Decrease	Large	0.007
Western redcedar	Wet	Other	Other	None	Small	0.040

Species group	Soil moisture	Soil depth	Slope Position	Decay rate adjustment	Snag dbh	Snag fall rate
Western redcedar	Wet	Other	Other	None	Medium	0.010
Western redcedar	Wet	Other	Other	None	Large	0.008
Western redcedar	Wet	Other	Other	Increase	Small	0.049
Western redcedar	Wet	Other	Other	Increase	Medium	0.012
Western redcedar	Wet	Other	Other	Increase	Large	0.010
Western redcedar	Wet	Other	Ridgetop	Decrease	Small	0.064
Western redcedar	Wet	Other	Ridgetop	Decrease	Medium	0.016
Western redcedar	Wet	Other	Ridgetop	Decrease	Large	0.012
Western redcedar	Wet	Other	Ridgetop	None	Small	0.066
Western redcedar	Wet	Other	Ridgetop	None	Medium	0.016
Western redcedar	Wet	Other	Ridgetop	None	Large	0.013
Western redcedar	Wet	Other	Ridgetop	Increase	Small	0.070
Western redcedar	Wet	Other	Ridgetop	Increase	Medium	0.017
Western redcedar	Wet	Other	Ridgetop	Increase	Large	0.014
Western redcedar	Wet	Shallow	Other	Decrease	Small	0.045
Western redcedar	Wet	Shallow	Other	Decrease	Medium	0.011
Western redcedar	Wet	Shallow	Other	Decrease	Large	0.009
Western redcedar	Wet	Shallow	Other	None	Small	0.049
Western redcedar	Wet	Shallow	Other	None	Medium	0.012
Western redcedar	Wet	Shallow	Other	None	Large	0.010
Western redcedar	Wet	Shallow	Other	Increase	Small	0.049
Western redcedar	Wet	Shallow	Other	Increase	Medium	0.012
Western redcedar	Wet	Shallow	Other	Increase	Large	0.010
Western redcedar	Wet	Shallow	Ridgetop	Decrease	Small	0.082
Western redcedar	Wet	Shallow	Ridgetop	Decrease	Medium	0.020
Western redcedar	Wet	Shallow	Ridgetop	Decrease	Large	0.016
Western redcedar	Wet	Shallow	Ridgetop	None	Small	0.082
Western redcedar	Wet	Shallow	Ridgetop	None	Medium	0.020
Western redcedar	Wet	Shallow	Ridgetop	None	Large	0.016
Western redcedar	Wet	Shallow	Ridgetop	Increase	Small	0.082
Western redcedar	Wet	Shallow	Ridgetop	Increase	Medium	0.020
Western redcedar	Wet	Shallow	Ridgetop	Increase	Large	0.016
Western redcedar	Mesic	Other	Other	Decrease	Small	0.037
Western redcedar	Mesic	Other	Other	Decrease	Medium	0.009
Western redcedar	Mesic	Other	Other	Decrease	Large	0.007
Western redcedar	Mesic	Other	Other	None	Small	0.041
Western redcedar	Mesic	Other	Other	None	Medium	0.010
Western redcedar	Mesic	Other	Other	None	Large	0.008
Western redcedar	Mesic	Other	Other	Increase	Small	0.049
Western redcedar	Mesic	Other	Other	Increase	Medium	0.012
Western redcedar	Mesic	Other	Other	Increase	Large	0.010

Species group	Soil moisture	Soil depth	Slope Position	Decay rate adjustment	Snag dbh	Snag fall rate
Western redcedar	Mesic	Other	Ridgetop	Decrease	Small	0.070
Western redcedar	Mesic	Other	Ridgetop	Decrease	Medium	0.017
Western redcedar	Mesic	Other	Ridgetop	Decrease	Large	0.014
Western redcedar	Mesic	Other	Ridgetop	None	Small	0.070
Western redcedar	Mesic	Other	Ridgetop	None	Medium	0.017
Western redcedar	Mesic	Other	Ridgetop	None	Large	0.014
Western redcedar	Mesic	Other	Ridgetop	Increase	Small	0.074
Western redcedar	Mesic	Other	Ridgetop	Increase	Medium	0.018
Western redcedar	Mesic	Other	Ridgetop	Increase	Large	0.014
Western redcedar	Mesic	Shallow	Other	Decrease	Small	0.045
Western redcedar	Mesic	Shallow	Other	Decrease	Medium	0.011
Western redcedar	Mesic	Shallow	Other	Decrease	Large	0.009
Western redcedar	Mesic	Shallow	Other	None	Small	0.049
Western redcedar	Mesic	Shallow	Other	None	Medium	0.012
Western redcedar	Mesic	Shallow	Other	None	Large	0.010
Western redcedar	Mesic	Shallow	Other	Increase	Small	0.049
Western redcedar	Mesic	Shallow	Other	Increase	Medium	0.012
Western redcedar	Mesic	Shallow	Other	Increase	Large	0.010
Western redcedar	Mesic	Shallow	Ridgetop	Decrease	Small	0.082
Western redcedar	Mesic	Shallow	Ridgetop	Decrease	Medium	0.020
Western redcedar	Mesic	Shallow	Ridgetop	Decrease	Large	0.016
Western redcedar	Mesic	Shallow	Ridgetop	None	Small	0.082
Western redcedar	Mesic	Shallow	Ridgetop	None	Medium	0.020
Western redcedar	Mesic	Shallow	Ridgetop	None	Large	0.016
Western redcedar	Mesic	Shallow	Ridgetop	Increase	Small	0.082
Western redcedar	Mesic	Shallow	Ridgetop	Increase	Medium	0.020
Western redcedar	Mesic	Shallow	Ridgetop	Increase	Large	0.016
Western redcedar	Dry	Other	Other	Decrease	Small	0.040
Western redcedar	Dry	Other	Other	Decrease	Medium	0.010
Western redcedar	Dry	Other	Other	Decrease	Large	0.008
Western redcedar	Dry	Other	Other	None	Small	0.045
Western redcedar	Dry	Other	Other	None	Medium	0.011
Western redcedar	Dry	Other	Other	None	Large	0.009
Western redcedar	Dry	Other	Other	Increase	Small	0.049
Western redcedar	Dry	Other	Other	Increase	Medium	0.012
Western redcedar	Dry	Other	Other	Increase	Large	0.010
Western redcedar	Dry	Other	Ridgetop	Decrease	Small	0.076
Western redcedar	Dry	Other	Ridgetop	Decrease	Medium	0.019
Western redcedar	Dry	Other	Ridgetop	Decrease	Large	0.015
Western redcedar	Dry	Other	Ridgetop	None	Small	0.076
Western redcedar	Dry	Other	Ridgetop	None	Medium	0.019

Species group	Soil moisture	Soil depth	Slope Position	Decay rate adjustment	Snag dbh	Snag fall rate
Western redcedar	Dry	Other	Ridgetop	None	Large	0.015
Western redcedar	Dry	Other	Ridgetop	Increase	Small	0.078
Western redcedar	Dry	Other	Ridgetop	Increase	Medium	0.019
Western redcedar	Dry	Other	Ridgetop	Increase	Large	0.015
Western redcedar	Dry	Shallow	Other	Decrease	Small	0.045
Western redcedar	Dry	Shallow	Other	Decrease	Medium	0.011
Western redcedar	Dry	Shallow	Other	Decrease	Large	0.009
Western redcedar	Dry	Shallow	Other	None	Small	0.049
Western redcedar	Dry	Shallow	Other	None	Medium	0.012
Western redcedar	Dry	Shallow	Other	None	Large	0.010
Western redcedar	Dry	Shallow	Other	Increase	Small	0.049
Western redcedar	Dry	Shallow	Other	Increase	Medium	0.012
Western redcedar	Dry	Shallow	Other	Increase	Large	0.010
Western redcedar	Dry	Shallow	Ridgetop	Decrease	Small	0.082
Western redcedar	Dry	Shallow	Ridgetop	Decrease	Medium	0.020
Western redcedar	Dry	Shallow	Ridgetop	Decrease	Large	0.016
Western redcedar	Dry	Shallow	Ridgetop	None	Small	0.082
Western redcedar	Dry	Shallow	Ridgetop	None	Medium	0.020
Western redcedar	Dry	Shallow	Ridgetop	None	Large	0.016
Western redcedar	Dry	Shallow	Ridgetop	Increase	Small	0.082
Western redcedar	Dry	Shallow	Ridgetop	Increase	Medium	0.020
Western redcedar	Dry	Shallow	Ridgetop	Increase	Large	0.016
Pacific madrone	Wet	Other	Other	Decrease	Small	0.067
Pacific madrone	Wet	Other	Other	Decrease	Medium	0.066
Pacific madrone	Wet	Other	Other	Decrease	Large	0.066
Pacific madrone	Wet	Other	Other	None	Small	0.075
Pacific madrone	Wet	Other	Other	None	Medium	0.073
Pacific madrone	Wet	Other	Other	None	Large	0.073
Pacific madrone	Wet	Other	Other	Increase	Small	0.092
Pacific madrone	Wet	Other	Other	Increase	Medium	0.090
Pacific madrone	Wet	Other	Other	Increase	Large	0.090
Pacific madrone	Wet	Other	Ridgetop	Decrease	Small	0.119
Pacific madrone	Wet	Other	Ridgetop	Decrease	Medium	0.116
Pacific madrone	Wet	Other	Ridgetop	Decrease	Large	0.116
Pacific madrone	Wet	Other	Ridgetop	None	Small	0.123
Pacific madrone	Wet	Other	Ridgetop	None	Medium	0.120
Pacific madrone	Wet	Other	Ridgetop	None	Large	0.120
Pacific madrone	Wet	Other	Ridgetop	Increase	Small	0.131
Pacific madrone	Wet	Other	Ridgetop	Increase	Medium	0.128
Pacific madrone	Wet	Other	Ridgetop	Increase	Large	0.128
Pacific madrone	Wet	Shallow	Other	Decrease	Small	0.085



Species group	Soil moisture	Soil depth	Slope Position	Decay rate adjustment	Snag dbh	Snag fall rate
Pacific madrone	Wet	Shallow	Other	Decrease	Medium	0.083
Pacific madrone	Wet	Shallow	Other	Decrease	Large	0.083
Pacific madrone	Wet	Shallow	Other	None	Small	0.092
Pacific madrone	Wet	Shallow	Other	None	Medium	0.090
Pacific madrone	Wet	Shallow	Other	None	Large	0.090
Pacific madrone	Wet	Shallow	Other	Increase	Small	0.092
Pacific madrone	Wet	Shallow	Other	Increase	Medium	0.090
Pacific madrone	Wet	Shallow	Other	Increase	Large	0.090
Pacific madrone	Wet	Shallow	Ridgetop	Decrease	Small	0.154
Pacific madrone	Wet	Shallow	Ridgetop	Decrease	Medium	0.150
Pacific madrone	Wet	Shallow	Ridgetop	Decrease	Large	0.150
Pacific madrone	Wet	Shallow	Ridgetop	None	Small	0.154
Pacific madrone	Wet	Shallow	Ridgetop	None	Medium	0.150
Pacific madrone	Wet	Shallow	Ridgetop	None	Large	0.150
Pacific madrone	Wet	Shallow	Ridgetop	Increase	Small	0.154
Pacific madrone	Wet	Shallow	Ridgetop	Increase	Medium	0.150
Pacific madrone	Wet	Shallow	Ridgetop	Increase	Large	0.150
Pacific madrone	Mesic	Other	Other	Decrease	Small	0.069
Pacific madrone	Mesic	Other	Other	Decrease	Medium	0.068
Pacific madrone	Mesic	Other	Other	Decrease	Large	0.068
Pacific madrone	Mesic	Other	Other	None	Small	0.077
Pacific madrone	Mesic	Other	Other	None	Medium	0.075
Pacific madrone	Mesic	Other	Other	None	Large	0.075
Pacific madrone	Mesic	Other	Other	Increase	Small	0.092
Pacific madrone	Mesic	Other	Other	Increase	Medium	0.090
Pacific madrone	Mesic	Other	Other	Increase	Large	0.090
Pacific madrone	Mesic	Other	Ridgetop	Decrease	Small	0.131
Pacific madrone	Mesic	Other	Ridgetop	Decrease	Medium	0.128
Pacific madrone	Mesic	Other	Ridgetop	Decrease	Large	0.128
Pacific madrone	Mesic	Other	Ridgetop	None	Small	0.131
Pacific madrone	Mesic	Other	Ridgetop	None	Medium	0.128
Pacific madrone	Mesic	Other	Ridgetop	None	Large	0.128
Pacific madrone	Mesic	Other	Ridgetop	Increase	Small	0.139
Pacific madrone	Mesic	Other	Ridgetop	Increase	Medium	0.135
Pacific madrone	Mesic	Other	Ridgetop	Increase	Large	0.135
Pacific madrone	Mesic	Shallow	Other	Decrease	Small	0.085
Pacific madrone	Mesic	Shallow	Other	Decrease	Medium	0.083
Pacific madrone	Mesic	Shallow	Other	Decrease	Large	0.083
Pacific madrone	Mesic	Shallow	Other	None	Small	0.092
Pacific madrone	Mesic	Shallow	Other	None	Medium	0.090
Pacific madrone	Mesic	Shallow	Other	None	Large	0.090



Species group	Soil moisture	Soil depth	Slope Position	Decay rate adjustment	Snag dbh	Snag fall rate
Pacific madrone	Mesic	Shallow	Other	Increase	Small	0.092
Pacific madrone	Mesic	Shallow	Other	Increase	Medium	0.090
Pacific madrone	Mesic	Shallow	Other	Increase	Large	0.090
Pacific madrone	Mesic	Shallow	Ridgetop	Decrease	Small	0.154
Pacific madrone	Mesic	Shallow	Ridgetop	Decrease	Medium	0.150
Pacific madrone	Mesic	Shallow	Ridgetop	Decrease	Large	0.150
Pacific madrone	Mesic	Shallow	Ridgetop	None	Small	0.154
Pacific madrone	Mesic	Shallow	Ridgetop	None	Medium	0.150
Pacific madrone	Mesic	Shallow	Ridgetop	None	Large	0.150
Pacific madrone	Mesic	Shallow	Ridgetop	Increase	Small	0.154
Pacific madrone	Mesic	Shallow	Ridgetop	Increase	Medium	0.150
Pacific madrone	Mesic	Shallow	Ridgetop	Increase	Large	0.150
Pacific madrone	Dry	Other	Other	Decrease	Small	0.075
Pacific madrone	Dry	Other	Other	Decrease	Medium	0.073
Pacific madrone	Dry	Other	Other	Decrease	Large	0.073
Pacific madrone	Dry	Other	Other	None	Small	0.085
Pacific madrone	Dry	Other	Other	None	Medium	0.083
Pacific madrone	Dry	Other	Other	None	Large	0.083
Pacific madrone	Dry	Other	Other	Increase	Small	0.092
Pacific madrone	Dry	Other	Other	Increase	Medium	0.090
Pacific madrone	Dry	Other	Other	Increase	Large	0.090
Pacific madrone	Dry	Other	Ridgetop	Decrease	Small	0.142
Pacific madrone	Dry	Other	Ridgetop	Decrease	Medium	0.139
Pacific madrone	Dry	Other	Ridgetop	Decrease	Large	0.139
Pacific madrone	Dry	Other	Ridgetop	None	Small	0.142
Pacific madrone	Dry	Other	Ridgetop	None	Medium	0.139
Pacific madrone	Dry	Other	Ridgetop	None	Large	0.139
Pacific madrone	Dry	Other	Ridgetop	Increase	Small	0.146
Pacific madrone	Dry	Other	Ridgetop	Increase	Medium	0.143
Pacific madrone	Dry	Other	Ridgetop	Increase	Large	0.143
Pacific madrone	Dry	Shallow	Other	Decrease	Small	0.085
Pacific madrone	Dry	Shallow	Other	Decrease	Medium	0.083
Pacific madrone	Dry	Shallow	Other	Decrease	Large	0.083
Pacific madrone	Dry	Shallow	Other	None	Small	0.092
Pacific madrone	Dry	Shallow	Other	None	Medium	0.090
Pacific madrone	Dry	Shallow	Other	None	Large	0.090
Pacific madrone	Dry	Shallow	Other	Increase	Small	0.092
Pacific madrone	Dry	Shallow	Other	Increase	Medium	0.090
Pacific madrone	Dry	Shallow	Other	Increase	Large	0.090
Pacific madrone	Dry	Shallow	Ridgetop	Decrease	Small	0.154
Pacific madrone	Dry	Shallow	Ridgetop	Decrease	Medium	0.150

Species group	Soil moisture	Soil depth	Slope Position	Decay rate adjustment	Snag dbh	Snag fall rate
Pacific madrone	Dry	Shallow	Ridgetop	Decrease	Large	0.150
Pacific madrone	Dry	Shallow	Ridgetop	None	Small	0.154
Pacific madrone	Dry	Shallow	Ridgetop	None	Medium	0.150
Pacific madrone	Dry	Shallow	Ridgetop	None	Large	0.150
Pacific madrone	Dry	Shallow	Ridgetop	Increase	Small	0.154
Pacific madrone	Dry	Shallow	Ridgetop	Increase	Medium	0.150
Pacific madrone	Dry	Shallow	Ridgetop	Increase	Large	0.150
Lodgepole pine	Wet	Other	Other	Decrease	Small	0.076
Lodgepole pine	Wet	Other	Other	Decrease	Medium	0.069
Lodgepole pine	Wet	Other	Other	Decrease	Large	0.069
Lodgepole pine	Wet	Other	Other	None	Small	0.085
Lodgepole pine	Wet	Other	Other	None	Medium	0.077
Lodgepole pine	Wet	Other	Other	None	Large	0.077
Lodgepole pine	Wet	Other	Other	Increase	Small	0.104
Lodgepole pine	Wet	Other	Other	Increase	Medium	0.095
Lodgepole pine	Wet	Other	Other	Increase	Large	0.095
Lodgepole pine	Wet	Other	Ridgetop	Decrease	Small	0.135
Lodgepole pine	Wet	Other	Ridgetop	Decrease	Medium	0.122
Lodgepole pine	Wet	Other	Ridgetop	Decrease	Large	0.122
Lodgepole pine	Wet	Other	Ridgetop	None	Small	0.139
Lodgepole pine	Wet	Other	Ridgetop	None	Medium	0.126
Lodgepole pine	Wet	Other	Ridgetop	None	Large	0.126
Lodgepole pine	Wet	Other	Ridgetop	Increase	Small	0.148
Lodgepole pine	Wet	Other	Ridgetop	Increase	Medium	0.134
Lodgepole pine	Wet	Other	Ridgetop	Increase	Large	0.134
Lodgepole pine	Wet	Shallow	Other	Decrease	Small	0.096
Lodgepole pine	Wet	Shallow	Other	Decrease	Medium	0.087
Lodgepole pine	Wet	Shallow	Other	Decrease	Large	0.087
Lodgepole pine	Wet	Shallow	Other	None	Small	0.104
Lodgepole pine	Wet	Shallow	Other	None	Medium	0.095
Lodgepole pine	Wet	Shallow	Other	None	Large	0.095
Lodgepole pine	Wet	Shallow	Other	Increase	Small	0.104
Lodgepole pine	Wet	Shallow	Other	Increase	Medium	0.095
Lodgepole pine	Wet	Shallow	Other	Increase	Large	0.095
Lodgepole pine	Wet	Shallow	Ridgetop	Decrease	Small	0.174
Lodgepole pine	Wet	Shallow	Ridgetop	Decrease	Medium	0.158
Lodgepole pine	Wet	Shallow	Ridgetop	Decrease	Large	0.158
Lodgepole pine	Wet	Shallow	Ridgetop	None	Small	0.174
Lodgepole pine	Wet	Shallow	Ridgetop	None	Medium	0.158
Lodgepole pine	Wet	Shallow	Ridgetop	None	Large	0.158
Lodgepole pine	Wet	Shallow	Ridgetop	Increase	Small	0.174

Species group	Soil moisture	Soil depth	Slope Position	Decay rate adjustment	Snag dbh	Snag fall rate
Lodgepole pine	Wet	Shallow	Ridgetop	Increase	Medium	0.158
Lodgepole pine	Wet	Shallow	Ridgetop	Increase	Large	0.158
Lodgepole pine	Mesic	Other	Other	Decrease	Small	0.078
Lodgepole pine	Mesic	Other	Other	Decrease	Medium	0.071
Lodgepole pine	Mesic	Other	Other	Decrease	Large	0.071
Lodgepole pine	Mesic	Other	Other	None	Small	0.087
Lodgepole pine	Mesic	Other	Other	None	Medium	0.079
Lodgepole pine	Mesic	Other	Other	None	Large	0.079
Lodgepole pine	Mesic	Other	Other	Increase	Small	0.104
Lodgepole pine	Mesic	Other	Other	Increase	Medium	0.095
Lodgepole pine	Mesic	Other	Other	Increase	Large	0.095
Lodgepole pine	Mesic	Other	Ridgetop	Decrease	Small	0.148
Lodgepole pine	Mesic	Other	Ridgetop	Decrease	Medium	0.134
Lodgepole pine	Mesic	Other	Ridgetop	Decrease	Large	0.134
Lodgepole pine	Mesic	Other	Ridgetop	None	Small	0.148
Lodgepole pine	Mesic	Other	Ridgetop	None	Medium	0.134
Lodgepole pine	Mesic	Other	Ridgetop	None	Large	0.134
Lodgepole pine	Mesic	Other	Ridgetop	Increase	Small	0.157
Lodgepole pine	Mesic	Other	Ridgetop	Increase	Medium	0.142
Lodgepole pine	Mesic	Other	Ridgetop	Increase	Large	0.142
Lodgepole pine	Mesic	Shallow	Other	Decrease	Small	0.096
Lodgepole pine	Mesic	Shallow	Other	Decrease	Medium	0.087
Lodgepole pine	Mesic	Shallow	Other	Decrease	Large	0.087
Lodgepole pine	Mesic	Shallow	Other	None	Small	0.104
Lodgepole pine	Mesic	Shallow	Other	None	Medium	0.095
Lodgepole pine	Mesic	Shallow	Other	None	Large	0.095
Lodgepole pine	Mesic	Shallow	Other	Increase	Small	0.104
Lodgepole pine	Mesic	Shallow	Other	Increase	Medium	0.095
Lodgepole pine	Mesic	Shallow	Other	Increase	Large	0.095
Lodgepole pine	Mesic	Shallow	Ridgetop	Decrease	Small	0.174
Lodgepole pine	Mesic	Shallow	Ridgetop	Decrease	Medium	0.158
Lodgepole pine	Mesic	Shallow	Ridgetop	Decrease	Large	0.158
Lodgepole pine	Mesic	Shallow	Ridgetop	None	Small	0.174
Lodgepole pine	Mesic	Shallow	Ridgetop	None	Medium	0.158
Lodgepole pine	Mesic	Shallow	Ridgetop	None	Large	0.158
Lodgepole pine	Mesic	Shallow	Ridgetop	Increase	Small	0.174
Lodgepole pine	Mesic	Shallow	Ridgetop	Increase	Medium	0.158
Lodgepole pine	Mesic	Shallow	Ridgetop	Increase	Large	0.158
Lodgepole pine	Dry	Other	Other	Decrease	Small	0.085
Lodgepole pine	Dry	Other	Other	Decrease	Medium	0.077
Lodgepole pine	Dry	Other	Other	Decrease	Large	0.077

Species group	Soil moisture	Soil depth	Slope Position	Decay rate adjustment	Snag dbh	Snag fall rate
Lodgepole pine	Dry	Other	Other	None	Small	0.096
Lodgepole pine	Dry	Other	Other	None	Medium	0.087
Lodgepole pine	Dry	Other	Other	None	Large	0.087
Lodgepole pine	Dry	Other	Other	Increase	Small	0.104
Lodgepole pine	Dry	Other	Other	Increase	Medium	0.095
Lodgepole pine	Dry	Other	Other	Increase	Large	0.095
Lodgepole pine	Dry	Other	Ridgetop	Decrease	Small	0.161
Lodgepole pine	Dry	Other	Ridgetop	Decrease	Medium	0.146
Lodgepole pine	Dry	Other	Ridgetop	Decrease	Large	0.146
Lodgepole pine	Dry	Other	Ridgetop	None	Small	0.161
Lodgepole pine	Dry	Other	Ridgetop	None	Medium	0.146
Lodgepole pine	Dry	Other	Ridgetop	None	Large	0.146
Lodgepole pine	Dry	Other	Ridgetop	Increase	Small	0.165
Lodgepole pine	Dry	Other	Ridgetop	Increase	Medium	0.150
Lodgepole pine	Dry	Other	Ridgetop	Increase	Large	0.150
Lodgepole pine	Dry	Shallow	Other	Decrease	Small	0.096
Lodgepole pine	Dry	Shallow	Other	Decrease	Medium	0.087
Lodgepole pine	Dry	Shallow	Other	Decrease	Large	0.087
Lodgepole pine	Dry	Shallow	Other	None	Small	0.104
Lodgepole pine	Dry	Shallow	Other	None	Medium	0.095
Lodgepole pine	Dry	Shallow	Other	None	Large	0.095
Lodgepole pine	Dry	Shallow	Other	Increase	Small	0.104
Lodgepole pine	Dry	Shallow	Other	Increase	Medium	0.095
Lodgepole pine	Dry	Shallow	Other	Increase	Large	0.095
Lodgepole pine	Dry	Shallow	Ridgetop	Decrease	Small	0.174
Lodgepole pine	Dry	Shallow	Ridgetop	Decrease	Medium	0.158
Lodgepole pine	Dry	Shallow	Ridgetop	Decrease	Large	0.158
Lodgepole pine	Dry	Shallow	Ridgetop	None	Small	0.174
Lodgepole pine	Dry	Shallow	Ridgetop	None	Medium	0.158
Lodgepole pine	Dry	Shallow	Ridgetop	None	Large	0.158
Lodgepole pine	Dry	Shallow	Ridgetop	Increase	Small	0.174
Lodgepole pine	Dry	Shallow	Ridgetop	Increase	Medium	0.158
Lodgepole pine	Dry	Shallow	Ridgetop	Increase	Large	0.158
Spruce	Wet	Other	Other	Decrease	Small	0.067
Spruce	Wet	Other	Other	Decrease	Medium	0.040
Spruce	Wet	Other	Other	Decrease	Large	0.038
Spruce	Wet	Other	Other	None	Small	0.074
Spruce	Wet	Other	Other	None	Medium	0.045
Spruce	Wet	Other	Other	None	Large	0.042
Spruce	Wet	Other	Other	Increase	Small	0.091
Spruce	Wet	Other	Other	Increase	Medium	0.055

Species group	Soil moisture	Soil depth	Slope Position	Decay rate adjustment	Snag dbh	Snag fall rate
Spruce	Wet	Other	Other	Increase	Large	0.052
Spruce	Wet	Other	Ridgetop	Decrease	Small	0.118
Spruce	Wet	Other	Ridgetop	Decrease	Medium	0.071
Spruce	Wet	Other	Ridgetop	Decrease	Large	0.067
Spruce	Wet	Other	Ridgetop	None	Small	0.122
Spruce	Wet	Other	Ridgetop	None	Medium	0.074
Spruce	Wet	Other	Ridgetop	None	Large	0.069
Spruce	Wet	Other	Ridgetop	Increase	Small	0.129
Spruce	Wet	Other	Ridgetop	Increase	Medium	0.078
Spruce	Wet	Other	Ridgetop	Increase	Large	0.073
Spruce	Wet	Shallow	Other	Decrease	Small	0.084
Spruce	Wet	Shallow	Other	Decrease	Medium	0.051
Spruce	Wet	Shallow	Other	Decrease	Large	0.047
Spruce	Wet	Shallow	Other	None	Small	0.091
Spruce	Wet	Shallow	Other	None	Medium	0.055
Spruce	Wet	Shallow	Other	None	Large	0.052
Spruce	Wet	Shallow	Other	Increase	Small	0.091
Spruce	Wet	Shallow	Other	Increase	Medium	0.055
Spruce	Wet	Shallow	Other	Increase	Large	0.052
Spruce	Wet	Shallow	Ridgetop	Decrease	Small	0.152
Spruce	Wet	Shallow	Ridgetop	Decrease	Medium	0.092
Spruce	Wet	Shallow	Ridgetop	Decrease	Large	0.086
Spruce	Wet	Shallow	Ridgetop	None	Small	0.152
Spruce	Wet	Shallow	Ridgetop	None	Medium	0.092
Spruce	Wet	Shallow	Ridgetop	None	Large	0.086
Spruce	Wet	Shallow	Ridgetop	Increase	Small	0.152
Spruce	Wet	Shallow	Ridgetop	Increase	Medium	0.092
Spruce	Wet	Shallow	Ridgetop	Increase	Large	0.086
Spruce	Mesic	Other	Other	Decrease	Small	0.068
Spruce	Mesic	Other	Other	Decrease	Medium	0.041
Spruce	Mesic	Other	Other	Decrease	Large	0.039
Spruce	Mesic	Other	Other	None	Small	0.076
Spruce	Mesic	Other	Other	None	Medium	0.046
Spruce	Mesic	Other	Other	None	Large	0.043
Spruce	Mesic	Other	Other	Increase	Small	0.091
Spruce	Mesic	Other	Other	Increase	Medium	0.055
Spruce	Mesic	Other	Other	Increase	Large	0.052
Spruce	Mesic	Other	Ridgetop	Decrease	Small	0.129
Spruce	Mesic	Other	Ridgetop	Decrease	Medium	0.078
Spruce	Mesic	Other	Ridgetop	Decrease	Large	0.073
Spruce	Mesic	Other	Ridgetop	None	Small	0.129

Species group	Soil moisture	Soil depth	Slope Position	Decay rate adjustment	Snag dbh	Snag fall rate
Spruce	Mesic	Other	Ridgetop	None	Medium	0.078
Spruce	Mesic	Other	Ridgetop	None	Large	0.073
Spruce	Mesic	Other	Ridgetop	Increase	Small	0.137
Spruce	Mesic	Other	Ridgetop	Increase	Medium	0.083
Spruce	Mesic	Other	Ridgetop	Increase	Large	0.077
Spruce	Mesic	Shallow	Other	Decrease	Small	0.084
Spruce	Mesic	Shallow	Other	Decrease	Medium	0.051
Spruce	Mesic	Shallow	Other	Decrease	Large	0.047
Spruce	Mesic	Shallow	Other	None	Small	0.091
Spruce	Mesic	Shallow	Other	None	Medium	0.055
Spruce	Mesic	Shallow	Other	None	Large	0.052
Spruce	Mesic	Shallow	Other	Increase	Small	0.091
Spruce	Mesic	Shallow	Other	Increase	Medium	0.055
Spruce	Mesic	Shallow	Other	Increase	Large	0.052
Spruce	Mesic	Shallow	Ridgetop	Decrease	Small	0.152
Spruce	Mesic	Shallow	Ridgetop	Decrease	Medium	0.092
Spruce	Mesic	Shallow	Ridgetop	Decrease	Large	0.086
Spruce	Mesic	Shallow	Ridgetop	None	Small	0.152
Spruce	Mesic	Shallow	Ridgetop	None	Medium	0.092
Spruce	Mesic	Shallow	Ridgetop	None	Large	0.086
Spruce	Mesic	Shallow	Ridgetop	Increase	Small	0.152
Spruce	Mesic	Shallow	Ridgetop	Increase	Medium	0.092
Spruce	Mesic	Shallow	Ridgetop	Increase	Large	0.086
Spruce	Dry	Other	Other	Decrease	Small	0.074
Spruce	Dry	Other	Other	Decrease	Medium	0.045
Spruce	Dry	Other	Other	Decrease	Large	0.042
Spruce	Dry	Other	Other	None	Small	0.084
Spruce	Dry	Other	Other	None	Medium	0.051
Spruce	Dry	Other	Other	None	Large	0.047
Spruce	Dry	Other	Other	Increase	Small	0.091
Spruce	Dry	Other	Other	Increase	Medium	0.055
Spruce	Dry	Other	Other	Increase	Large	0.052
Spruce	Dry	Other	Ridgetop	Decrease	Small	0.141
Spruce	Dry	Other	Ridgetop	Decrease	Medium	0.085
Spruce	Dry	Other	Ridgetop	Decrease	Large	0.080
Spruce	Dry	Other	Ridgetop	None	Small	0.141
Spruce	Dry	Other	Ridgetop	None	Medium	0.085
Spruce	Dry	Other	Ridgetop	None	Large	0.080
Spruce	Dry	Other	Ridgetop	Increase	Small	0.144
Spruce	Dry	Other	Ridgetop	Increase	Medium	0.087
Spruce	Dry	Other	Ridgetop	Increase	Large	0.082

Species group	Soil moisture	Soil depth	Slope Position	Decay rate adjustment	Snag dbh	Snag fall rate
Spruce	Dry	Shallow	Other	Decrease	Small	0.084
Spruce	Dry	Shallow	Other	Decrease	Medium	0.051
Spruce	Dry	Shallow	Other	Decrease	Large	0.047
Spruce	Dry	Shallow	Other	None	Small	0.091
Spruce	Dry	Shallow	Other	None	Medium	0.055
Spruce	Dry	Shallow	Other	None	Large	0.052
Spruce	Dry	Shallow	Other	Increase	Small	0.091
Spruce	Dry	Shallow	Other	Increase	Medium	0.055
Spruce	Dry	Shallow	Other	Increase	Large	0.052
Spruce	Dry	Shallow	Ridgetop	Decrease	Small	0.152
Spruce	Dry	Shallow	Ridgetop	Decrease	Medium	0.092
Spruce	Dry	Shallow	Ridgetop	Decrease	Large	0.086
Spruce	Dry	Shallow	Ridgetop	None	Small	0.152
Spruce	Dry	Shallow	Ridgetop	None	Medium	0.092
Spruce	Dry	Shallow	Ridgetop	None	Large	0.086
Spruce	Dry	Shallow	Ridgetop	Increase	Small	0.152
Spruce	Dry	Shallow	Ridgetop	Increase	Medium	0.092
Spruce	Dry	Shallow	Ridgetop	Increase	Large	0.086
Western hemlock	Wet	Other	Other	Decrease	Small	0.053
Western hemlock	Wet	Other	Other	Decrease	Medium	0.032
Western hemlock	Wet	Other	Other	Decrease	Large	0.018
Western hemlock	Wet	Other	Other	None	Small	0.059
Western hemlock	Wet	Other	Other	None	Medium	0.036
Western hemlock	Wet	Other	Other	None	Large	0.020
Western hemlock	Wet	Other	Other	Increase	Small	0.073
Western hemlock	Wet	Other	Other	Increase	Medium	0.044
Western hemlock	Wet	Other	Other	Increase	Large	0.024
Western hemlock	Wet	Other	Ridgetop	Decrease	Small	0.095
Western hemlock	Wet	Other	Ridgetop	Decrease	Medium	0.057
Western hemlock	Wet	Other	Ridgetop	Decrease	Large	0.031
Western hemlock	Wet	Other	Ridgetop	None	Small	0.098
Western hemlock	Wet	Other	Ridgetop	None	Medium	0.059
Western hemlock	Wet	Other	Ridgetop	None	Large	0.032
Western hemlock	Wet	Other	Ridgetop	Increase	Small	0.104
Western hemlock	Wet	Other	Ridgetop	Increase	Medium	0.063
Western hemlock	Wet	Other	Ridgetop	Increase	Large	0.034
Western hemlock	Wet	Shallow	Other	Decrease	Small	0.067
Western hemlock	Wet	Shallow	Other	Decrease	Medium	0.041
Western hemlock	Wet	Shallow	Other	Decrease	Large	0.022
Western hemlock	Wet	Shallow	Other	None	Small	0.073
Western hemlock	Wet	Shallow	Other	None	Medium	0.044



Species group	Soil moisture	Soil depth	Slope Position	Decay rate adjustment	Snag dbh	Snag fall rate
Western hemlock	Wet	Shallow	Other	None	Large	0.024
Western hemlock	Wet	Shallow	Other	Increase	Small	0.073
Western hemlock	Wet	Shallow	Other	Increase	Medium	0.044
Western hemlock	Wet	Shallow	Other	Increase	Large	0.024
Western hemlock	Wet	Shallow	Ridgetop	Decrease	Small	0.122
Western hemlock	Wet	Shallow	Ridgetop	Decrease	Medium	0.074
Western hemlock	Wet	Shallow	Ridgetop	Decrease	Large	0.040
Western hemlock	Wet	Shallow	Ridgetop	None	Small	0.122
Western hemlock	Wet	Shallow	Ridgetop	None	Medium	0.074
Western hemlock	Wet	Shallow	Ridgetop	None	Large	0.040
Western hemlock	Wet	Shallow	Ridgetop	Increase	Small	0.122
Western hemlock	Wet	Shallow	Ridgetop	Increase	Medium	0.074
Western hemlock	Wet	Shallow	Ridgetop	Increase	Large	0.040
Western hemlock	Mesic	Other	Other	Decrease	Small	0.055
Western hemlock	Mesic	Other	Other	Decrease	Medium	0.033
Western hemlock	Mesic	Other	Other	Decrease	Large	0.018
Western hemlock	Mesic	Other	Other	None	Small	0.061
Western hemlock	Mesic	Other	Other	None	Medium	0.037
Western hemlock	Mesic	Other	Other	None	Large	0.020
Western hemlock	Mesic	Other	Other	Increase	Small	0.073
Western hemlock	Mesic	Other	Other	Increase	Medium	0.044
Western hemlock	Mesic	Other	Other	Increase	Large	0.024
Western hemlock	Mesic	Other	Ridgetop	Decrease	Small	0.104
Western hemlock	Mesic	Other	Ridgetop	Decrease	Medium	0.063
Western hemlock	Mesic	Other	Ridgetop	Decrease	Large	0.034
Western hemlock	Mesic	Other	Ridgetop	None	Small	0.104
Western hemlock	Mesic	Other	Ridgetop	None	Medium	0.063
Western hemlock	Mesic	Other	Ridgetop	None	Large	0.034
Western hemlock	Mesic	Other	Ridgetop	Increase	Small	0.110
Western hemlock	Mesic	Other	Ridgetop	Increase	Medium	0.067
Western hemlock	Mesic	Other	Ridgetop	Increase	Large	0.036
Western hemlock	Mesic	Shallow	Other	Decrease	Small	0.067
Western hemlock	Mesic	Shallow	Other	Decrease	Medium	0.041
Western hemlock	Mesic	Shallow	Other	Decrease	Large	0.022
Western hemlock	Mesic	Shallow	Other	None	Small	0.073
Western hemlock	Mesic	Shallow	Other	None	Medium	0.044
Western hemlock	Mesic	Shallow	Other	None	Large	0.024
Western hemlock	Mesic	Shallow	Other	Increase	Small	0.073
Western hemlock	Mesic	Shallow	Other	Increase	Medium	0.044
Western hemlock	Mesic	Shallow	Other	Increase	Large	0.024
Western hemlock	Mesic	Shallow	Ridgetop	Decrease	Small	0.122



Species group	Soil moisture	Soil depth	Slope Position	Decay rate adjustment	Snag dbh	Snag fall rate
Western hemlock	Mesic	Shallow	Ridgetop	Decrease	Medium	0.074
Western hemlock	Mesic	Shallow	Ridgetop	Decrease	Large	0.040
Western hemlock	Mesic	Shallow	Ridgetop	None	Small	0.122
Western hemlock	Mesic	Shallow	Ridgetop	None	Medium	0.074
Western hemlock	Mesic	Shallow	Ridgetop	None	Large	0.040
Western hemlock	Mesic	Shallow	Ridgetop	Increase	Small	0.122
Western hemlock	Mesic	Shallow	Ridgetop	Increase	Medium	0.074
Western hemlock	Mesic	Shallow	Ridgetop	Increase	Large	0.040
Western hemlock	Dry	Other	Other	Decrease	Small	0.059
Western hemlock	Dry	Other	Other	Decrease	Medium	0.036
Western hemlock	Dry	Other	Other	Decrease	Large	0.020
Western hemlock	Dry	Other	Other	None	Small	0.067
Western hemlock	Dry	Other	Other	None	Medium	0.041
Western hemlock	Dry	Other	Other	None	Large	0.022
Western hemlock	Dry	Other	Other	Increase	Small	0.073
Western hemlock	Dry	Other	Other	Increase	Medium	0.044
Western hemlock	Dry	Other	Other	Increase	Large	0.024
Western hemlock	Dry	Other	Ridgetop	Decrease	Small	0.113
Western hemlock	Dry	Other	Ridgetop	Decrease	Medium	0.068
Western hemlock	Dry	Other	Ridgetop	Decrease	Large	0.037
Western hemlock	Dry	Other	Ridgetop	None	Small	0.113
Western hemlock	Dry	Other	Ridgetop	None	Medium	0.068
Western hemlock	Dry	Other	Ridgetop	None	Large	0.037
Western hemlock	Dry	Other	Ridgetop	Increase	Small	0.116
Western hemlock	Dry	Other	Ridgetop	Increase	Medium	0.070
Western hemlock	Dry	Other	Ridgetop	Increase	Large	0.038
Western hemlock	Dry	Shallow	Other	Decrease	Small	0.067
Western hemlock	Dry	Shallow	Other	Decrease	Medium	0.041
Western hemlock	Dry	Shallow	Other	Decrease	Large	0.022
Western hemlock	Dry	Shallow	Other	None	Small	0.073
Western hemlock	Dry	Shallow	Other	None	Medium	0.044
Western hemlock	Dry	Shallow	Other	None	Large	0.024
Western hemlock	Dry	Shallow	Other	Increase	Small	0.073
Western hemlock	Dry	Shallow	Other	Increase	Medium	0.044
Western hemlock	Dry	Shallow	Other	Increase	Large	0.024
Western hemlock	Dry	Shallow	Ridgetop	Decrease	Small	0.122
Western hemlock	Dry	Shallow	Ridgetop	Decrease	Medium	0.074
Western hemlock	Dry	Shallow	Ridgetop	Decrease	Large	0.040
Western hemlock	Dry	Shallow	Ridgetop	None	Small	0.122
Western hemlock	Dry	Shallow	Ridgetop	None	Medium	0.074
Western hemlock	Dry	Shallow	Ridgetop	None	Large	0.040

Species group	Soil moisture	Soil depth	Slope Position	Decay rate adjustment	Snag dbh	Snag fall rate
Western hemlock	Dry	Shallow	Ridgetop	Increase	Small	0.122
Western hemlock	Dry	Shallow	Ridgetop	Increase	Medium	0.074
Western hemlock	Dry	Shallow	Ridgetop	Increase	Large	0.040
Mountain hemlock	Wet	Other	Other	Decrease	Small	0.042
Mountain hemlock	Wet	Other	Other	Decrease	Medium	0.035
Mountain hemlock	Wet	Other	Other	Decrease	Large	0.019
Mountain hemlock	Wet	Other	Other	None	Small	0.047
Mountain hemlock	Wet	Other	Other	None	Medium	0.039
Mountain hemlock	Wet	Other	Other	None	Large	0.021
Mountain hemlock	Wet	Other	Other	Increase	Small	0.058
Mountain hemlock	Wet	Other	Other	Increase	Medium	0.048
Mountain hemlock	Wet	Other	Other	Increase	Large	0.026
Mountain hemlock	Wet	Other	Ridgetop	Decrease	Small	0.074
Mountain hemlock	Wet	Other	Ridgetop	Decrease	Medium	0.062
Mountain hemlock	Wet	Other	Ridgetop	Decrease	Large	0.034
Mountain hemlock	Wet	Other	Ridgetop	None	Small	0.077
Mountain hemlock	Wet	Other	Ridgetop	None	Medium	0.064
Mountain hemlock	Wet	Other	Ridgetop	None	Large	0.035
Mountain hemlock	Wet	Other	Ridgetop	Increase	Small	0.082
Mountain hemlock	Wet	Other	Ridgetop	Increase	Medium	0.068
Mountain hemlock	Wet	Other	Ridgetop	Increase	Large	0.037
Mountain hemlock	Wet	Shallow	Other	Decrease	Small	0.053
Mountain hemlock	Wet	Shallow	Other	Decrease	Medium	0.044
Mountain hemlock	Wet	Shallow	Other	Decrease	Large	0.024
Mountain hemlock	Wet	Shallow	Other	None	Small	0.058
Mountain hemlock	Wet	Shallow	Other	None	Medium	0.048
Mountain hemlock	Wet	Shallow	Other	None	Large	0.026
Mountain hemlock	Wet	Shallow	Other	Increase	Small	0.058
Mountain hemlock	Wet	Shallow	Other	Increase	Medium	0.048
Mountain hemlock	Wet	Shallow	Other	Increase	Large	0.026
Mountain hemlock	Wet	Shallow	Ridgetop	Decrease	Small	0.096
Mountain hemlock	Wet	Shallow	Ridgetop	Decrease	Medium	0.080
Mountain hemlock	Wet	Shallow	Ridgetop	Decrease	Large	0.044
Mountain hemlock	Wet	Shallow	Ridgetop	None	Small	0.096
Mountain hemlock	Wet	Shallow	Ridgetop	None	Medium	0.080
Mountain hemlock	Wet	Shallow	Ridgetop	None	Large	0.044
Mountain hemlock	Wet	Shallow	Ridgetop	Increase	Small	0.096
Mountain hemlock	Wet	Shallow	Ridgetop	Increase	Medium	0.080
Mountain hemlock	Wet	Shallow	Ridgetop	Increase	Large	0.044
Mountain hemlock	Mesic	Other	Other	Decrease	Small	0.043
Mountain hemlock	Mesic	Other	Other	Decrease	Medium	0.036

Species group	Soil moisture	Soil depth	Slope Position	Decay rate adjustment	Snag dbh	Snag fall rate
Mountain hemlock	Mesic	Other	Other	Decrease	Large	0.020
Mountain hemlock	Mesic	Other	Other	None	Small	0.048
Mountain hemlock	Mesic	Other	Other	None	Medium	0.040
Mountain hemlock	Mesic	Other	Other	None	Large	0.022
Mountain hemlock	Mesic	Other	Other	Increase	Small	0.058
Mountain hemlock	Mesic	Other	Other	Increase	Medium	0.048
Mountain hemlock	Mesic	Other	Other	Increase	Large	0.026
Mountain hemlock	Mesic	Other	Ridgetop	Decrease	Small	0.082
Mountain hemlock	Mesic	Other	Ridgetop	Decrease	Medium	0.068
Mountain hemlock	Mesic	Other	Ridgetop	Decrease	Large	0.037
Mountain hemlock	Mesic	Other	Ridgetop	None	Small	0.082
Mountain hemlock	Mesic	Other	Ridgetop	None	Medium	0.068
Mountain hemlock	Mesic	Other	Ridgetop	None	Large	0.037
Mountain hemlock	Mesic	Other	Ridgetop	Increase	Small	0.086
Mountain hemlock	Mesic	Other	Ridgetop	Increase	Medium	0.072
Mountain hemlock	Mesic	Other	Ridgetop	Increase	Large	0.040
Mountain hemlock	Mesic	Shallow	Other	Decrease	Small	0.053
Mountain hemlock	Mesic	Shallow	Other	Decrease	Medium	0.044
Mountain hemlock	Mesic	Shallow	Other	Decrease	Large	0.024
Mountain hemlock	Mesic	Shallow	Other	None	Small	0.058
Mountain hemlock	Mesic	Shallow	Other	None	Medium	0.048
Mountain hemlock	Mesic	Shallow	Other	None	Large	0.026
Mountain hemlock	Mesic	Shallow	Other	Increase	Small	0.058
Mountain hemlock	Mesic	Shallow	Other	Increase	Medium	0.048
Mountain hemlock	Mesic	Shallow	Other	Increase	Large	0.026
Mountain hemlock	Mesic	Shallow	Ridgetop	Decrease	Small	0.096
Mountain hemlock	Mesic	Shallow	Ridgetop	Decrease	Medium	0.080
Mountain hemlock	Mesic	Shallow	Ridgetop	Decrease	Large	0.044
Mountain hemlock	Mesic	Shallow	Ridgetop	None	Small	0.096
Mountain hemlock	Mesic	Shallow	Ridgetop	None	Medium	0.080
Mountain hemlock	Mesic	Shallow	Ridgetop	None	Large	0.044
Mountain hemlock	Mesic	Shallow	Ridgetop	Increase	Small	0.096
Mountain hemlock	Mesic	Shallow	Ridgetop	Increase	Medium	0.080
Mountain hemlock	Mesic	Shallow	Ridgetop	Increase	Large	0.044
Mountain hemlock	Dry	Other	Other	Decrease	Small	0.047
Mountain hemlock	Dry	Other	Other	Decrease	Medium	0.039
Mountain hemlock	Dry	Other	Other	Decrease	Large	0.021
Mountain hemlock	Dry	Other	Other	None	Small	0.053
Mountain hemlock	Dry	Other	Other	None	Medium	0.044
Mountain hemlock	Dry	Other	Other	None	Large	0.024
Mountain hemlock	Dry	Other	Other	Increase	Small	0.058

Species group	Soil moisture	Soil depth	Slope Position	Decay rate adjustment	Snag dbh	Snag fall rate
Mountain hemlock	Dry	Other	Other	Increase	Medium	0.048
Mountain hemlock	Dry	Other	Other	Increase	Large	0.026
Mountain hemlock	Dry	Other	Ridgetop	Decrease	Small	0.089
Mountain hemlock	Dry	Other	Ridgetop	Decrease	Medium	0.074
Mountain hemlock	Dry	Other	Ridgetop	Decrease	Large	0.041
Mountain hemlock	Dry	Other	Ridgetop	None	Small	0.089
Mountain hemlock	Dry	Other	Ridgetop	None	Medium	0.074
Mountain hemlock	Dry	Other	Ridgetop	None	Large	0.041
Mountain hemlock	Dry	Other	Ridgetop	Increase	Small	0.091
Mountain hemlock	Dry	Other	Ridgetop	Increase	Medium	0.076
Mountain hemlock	Dry	Other	Ridgetop	Increase	Large	0.042
Mountain hemlock	Dry	Shallow	Other	Decrease	Small	0.053
Mountain hemlock	Dry	Shallow	Other	Decrease	Medium	0.044
Mountain hemlock	Dry	Shallow	Other	Decrease	Large	0.024
Mountain hemlock	Dry	Shallow	Other	None	Small	0.058
Mountain hemlock	Dry	Shallow	Other	None	Medium	0.048
Mountain hemlock	Dry	Shallow	Other	None	Large	0.026
Mountain hemlock	Dry	Shallow	Other	Increase	Small	0.058
Mountain hemlock	Dry	Shallow	Other	Increase	Medium	0.048
Mountain hemlock	Dry	Shallow	Other	Increase	Large	0.026
Mountain hemlock	Dry	Shallow	Ridgetop	Decrease	Small	0.096
Mountain hemlock	Dry	Shallow	Ridgetop	Decrease	Medium	0.080
Mountain hemlock	Dry	Shallow	Ridgetop	Decrease	Large	0.044
Mountain hemlock	Dry	Shallow	Ridgetop	None	Small	0.096
Mountain hemlock	Dry	Shallow	Ridgetop	None	Medium	0.080
Mountain hemlock	Dry	Shallow	Ridgetop	None	Large	0.044
Mountain hemlock	Dry	Shallow	Ridgetop	Increase	Small	0.096
Mountain hemlock	Dry	Shallow	Ridgetop	Increase	Medium	0.080
Mountain hemlock	Dry	Shallow	Ridgetop	Increase	Large	0.044
Ponderosa pine (OR)	Wet	Other	Other	Decrease	Small	0.123
Ponderosa pine (OR)	Wet	Other	Other	Decrease	Medium	0.059
Ponderosa pine (OR)	Wet	Other	Other	Decrease	Large	0.025
Ponderosa pine (OR)	Wet	Other	Other	None	Small	0.137
Ponderosa pine (OR)	Wet	Other	Other	None	Medium	0.065
Ponderosa pine (OR)	Wet	Other	Other	None	Large	0.027
Ponderosa pine (OR)	Wet	Other	Other	Increase	Small	0.169
Ponderosa pine (OR)	Wet	Other	Other	Increase	Medium	0.080
Ponderosa pine (OR)	Wet	Other	Other	Increase	Large	0.034
Ponderosa pine (OR)	Wet	Other	Ridgetop	Decrease	Small	0.219
Ponderosa pine (OR)	Wet	Other	Ridgetop	Decrease	Medium	0.104
Ponderosa pine (OR)	Wet	Other	Ridgetop	Decrease	Large	0.043

Species group	Soil moisture	Soil depth	Slope Position	Decay rate adjustment	Snag dbh	Snag fall rate
Ponderosa pine (OR)	Wet	Other	Ridgetop	None	Small	0.226
Ponderosa pine (OR)	Wet	Other	Ridgetop	None	Medium	0.107
Ponderosa pine (OR)	Wet	Other	Ridgetop	None	Large	0.045
Ponderosa pine (OR)	Wet	Other	Ridgetop	Increase	Small	0.240
Ponderosa pine (OR)	Wet	Other	Ridgetop	Increase	Medium	0.114
Ponderosa pine (OR)	Wet	Other	Ridgetop	Increase	Large	0.048
Ponderosa pine (OR)	Wet	Shallow	Other	Decrease	Small	0.155
Ponderosa pine (OR)	Wet	Shallow	Other	Decrease	Medium	0.074
Ponderosa pine (OR)	Wet	Shallow	Other	Decrease	Large	0.031
Ponderosa pine (OR)	Wet	Shallow	Other	None	Small	0.169
Ponderosa pine (OR)	Wet	Shallow	Other	None	Medium	0.080
Ponderosa pine (OR)	Wet	Shallow	Other	None	Large	0.034
Ponderosa pine (OR)	Wet	Shallow	Other	Increase	Small	0.169
Ponderosa pine (OR)	Wet	Shallow	Other	Increase	Medium	0.080
Ponderosa pine (OR)	Wet	Shallow	Other	Increase	Large	0.034
Ponderosa pine (OR)	Wet	Shallow	Ridgetop	Decrease	Small	0.282
Ponderosa pine (OR)	Wet	Shallow	Ridgetop	Decrease	Medium	0.134
Ponderosa pine (OR)	Wet	Shallow	Ridgetop	Decrease	Large	0.056
Ponderosa pine (OR)	Wet	Shallow	Ridgetop	None	Small	0.282
Ponderosa pine (OR)	Wet	Shallow	Ridgetop	None	Medium	0.134
Ponderosa pine (OR)	Wet	Shallow	Ridgetop	None	Large	0.056
Ponderosa pine (OR)	Wet	Shallow	Ridgetop	Increase	Small	0.282
Ponderosa pine (OR)	Wet	Shallow	Ridgetop	Increase	Medium	0.134
Ponderosa pine (OR)	Wet	Shallow	Ridgetop	Increase	Large	0.056
Ponderosa pine (OR)	Mesic	Other	Other	Decrease	Small	0.127
Ponderosa pine (OR)	Mesic	Other	Other	Decrease	Medium	0.060
Ponderosa pine (OR)	Mesic	Other	Other	Decrease	Large	0.025
Ponderosa pine (OR)	Mesic	Other	Other	None	Small	0.141
Ponderosa pine (OR)	Mesic	Other	Other	None	Medium	0.067
Ponderosa pine (OR)	Mesic	Other	Other	None	Large	0.028
Ponderosa pine (OR)	Mesic	Other	Other	Increase	Small	0.169
Ponderosa pine (OR)	Mesic	Other	Other	Increase	Medium	0.080
Ponderosa pine (OR)	Mesic	Other	Other	Increase	Large	0.034
Ponderosa pine (OR)	Mesic	Other	Ridgetop	Decrease	Small	0.240
Ponderosa pine (OR)	Mesic	Other	Ridgetop	Decrease	Medium	0.114
Ponderosa pine (OR)	Mesic	Other	Ridgetop	Decrease	Large	0.048
Ponderosa pine (OR)	Mesic	Other	Ridgetop	None	Small	0.240
Ponderosa pine (OR)	Mesic	Other	Ridgetop	None	Medium	0.114
Ponderosa pine (OR)	Mesic	Other	Ridgetop	None	Large	0.048
Ponderosa pine (OR)	Mesic	Other	Ridgetop	Increase	Small	0.254
Ponderosa pine (OR)	Mesic	Other	Ridgetop	Increase	Medium	0.121

Species group	Soil moisture	Soil depth	Slope Position	Decay rate adjustment	Snag dbh	Snag fall rate
Ponderosa pine (OR)	Mesic	Other	Ridgetop	Increase	Large	0.050
Ponderosa pine (OR)	Mesic	Shallow	Other	Decrease	Small	0.155
Ponderosa pine (OR)	Mesic	Shallow	Other	Decrease	Medium	0.074
Ponderosa pine (OR)	Mesic	Shallow	Other	Decrease	Large	0.031
Ponderosa pine (OR)	Mesic	Shallow	Other	None	Small	0.169
Ponderosa pine (OR)	Mesic	Shallow	Other	None	Medium	0.080
Ponderosa pine (OR)	Mesic	Shallow	Other	None	Large	0.034
Ponderosa pine (OR)	Mesic	Shallow	Other	Increase	Small	0.169
Ponderosa pine (OR)	Mesic	Shallow	Other	Increase	Medium	0.080
Ponderosa pine (OR)	Mesic	Shallow	Other	Increase	Large	0.034
Ponderosa pine (OR)	Mesic	Shallow	Ridgetop	Decrease	Small	0.282
Ponderosa pine (OR)	Mesic	Shallow	Ridgetop	Decrease	Medium	0.134
Ponderosa pine (OR)	Mesic	Shallow	Ridgetop	Decrease	Large	0.056
Ponderosa pine (OR)	Mesic	Shallow	Ridgetop	None	Small	0.282
Ponderosa pine (OR)	Mesic	Shallow	Ridgetop	None	Medium	0.134
Ponderosa pine (OR)	Mesic	Shallow	Ridgetop	None	Large	0.056
Ponderosa pine (OR)	Mesic	Shallow	Ridgetop	Increase	Small	0.282
Ponderosa pine (OR)	Mesic	Shallow	Ridgetop	Increase	Medium	0.134
Ponderosa pine (OR)	Mesic	Shallow	Ridgetop	Increase	Large	0.056
Ponderosa pine (OR)	Dry	Other	Other	Decrease	Small	0.137
Ponderosa pine (OR)	Dry	Other	Other	Decrease	Medium	0.065
Ponderosa pine (OR)	Dry	Other	Other	Decrease	Large	0.027
Ponderosa pine (OR)	Dry	Other	Other	None	Small	0.155
Ponderosa pine (OR)	Dry	Other	Other	None	Medium	0.074
Ponderosa pine (OR)	Dry	Other	Other	None	Large	0.031
Ponderosa pine (OR)	Dry	Other	Other	Increase	Small	0.169
Ponderosa pine (OR)	Dry	Other	Other	Increase	Medium	0.080
Ponderosa pine (OR)	Dry	Other	Other	Increase	Large	0.034
Ponderosa pine (OR)	Dry	Other	Ridgetop	Decrease	Small	0.261
Ponderosa pine (OR)	Dry	Other	Ridgetop	Decrease	Medium	0.124
Ponderosa pine (OR)	Dry	Other	Ridgetop	Decrease	Large	0.052
Ponderosa pine (OR)	Dry	Other	Ridgetop	None	Small	0.261
Ponderosa pine (OR)	Dry	Other	Ridgetop	None	Medium	0.124
Ponderosa pine (OR)	Dry	Other	Ridgetop	None	Large	0.052
Ponderosa pine (OR)	Dry	Other	Ridgetop	Increase	Small	0.268
Ponderosa pine (OR)	Dry	Other	Ridgetop	Increase	Medium	0.127
Ponderosa pine (OR)	Dry	Other	Ridgetop	Increase	Large	0.053
Ponderosa pine (OR)	Dry	Shallow	Other	Decrease	Small	0.155
Ponderosa pine (OR)	Dry	Shallow	Other	Decrease	Medium	0.074
Ponderosa pine (OR)	Dry	Shallow	Other	Decrease	Large	0.031
Ponderosa pine (OR)	Dry	Shallow	Other	None	Small	0.169



Species group	Soil moisture	Soil depth	Slope Position	Decay rate adjustment	Snag dbh	Snag fall rate
Ponderosa pine (OR)	Dry	Shallow	Other	None	Medium	0.080
Ponderosa pine (OR)	Dry	Shallow	Other	None	Large	0.034
Ponderosa pine (OR)	Dry	Shallow	Other	Increase	Small	0.169
Ponderosa pine (OR)	Dry	Shallow	Other	Increase	Medium	0.080
Ponderosa pine (OR)	Dry	Shallow	Other	Increase	Large	0.034
Ponderosa pine (OR)	Dry	Shallow	Ridgetop	Decrease	Small	0.282
Ponderosa pine (OR)	Dry	Shallow	Ridgetop	Decrease	Medium	0.134
Ponderosa pine (OR)	Dry	Shallow	Ridgetop	Decrease	Large	0.056
Ponderosa pine (OR)	Dry	Shallow	Ridgetop	None	Small	0.282
Ponderosa pine (OR)	Dry	Shallow	Ridgetop	None	Medium	0.134
Ponderosa pine (OR)	Dry	Shallow	Ridgetop	None	Large	0.056
Ponderosa pine (OR)	Dry	Shallow	Ridgetop	Increase	Small	0.282
Ponderosa pine (OR)	Dry	Shallow	Ridgetop	Increase	Medium	0.134
Ponderosa pine (OR)	Dry	Shallow	Ridgetop	Increase	Large	0.056
Ponderosa pine (WA)	Wet	Other	Other	Decrease	Small	0.137
Ponderosa pine (WA)	Wet	Other	Other	Decrease	Medium	0.071
Ponderosa pine (WA)	Wet	Other	Other	Decrease	Large	0.025
Ponderosa pine (WA)	Wet	Other	Other	None	Small	0.152
Ponderosa pine (WA)	Wet	Other	Other	None	Medium	0.079
Ponderosa pine (WA)	Wet	Other	Other	None	Large	0.027
Ponderosa pine (WA)	Wet	Other	Other	Increase	Small	0.187
Ponderosa pine (WA)	Wet	Other	Other	Increase	Medium	0.097
Ponderosa pine (WA)	Wet	Other	Other	Increase	Large	0.034
Ponderosa pine (WA)	Wet	Other	Ridgetop	Decrease	Small	0.242
Ponderosa pine (WA)	Wet	Other	Ridgetop	Decrease	Medium	0.126
Ponderosa pine (WA)	Wet	Other	Ridgetop	Decrease	Large	0.043
Ponderosa pine (WA)	Wet	Other	Ridgetop	None	Small	0.250
Ponderosa pine (WA)	Wet	Other	Ridgetop	None	Medium	0.130
Ponderosa pine (WA)	Wet	Other	Ridgetop	None	Large	0.045
Ponderosa pine (WA)	Wet	Other	Ridgetop	Increase	Small	0.265
Ponderosa pine (WA)	Wet	Other	Ridgetop	Increase	Medium	0.138
Ponderosa pine (WA)	Wet	Other	Ridgetop	Increase	Large	0.048
Ponderosa pine (WA)	Wet	Shallow	Other	Decrease	Small	0.172
Ponderosa pine (WA)	Wet	Shallow	Other	Decrease	Medium	0.089
Ponderosa pine (WA)	Wet	Shallow	Other	Decrease	Large	0.031
Ponderosa pine (WA)	Wet	Shallow	Other	None	Small	0.187
Ponderosa pine (WA)	Wet	Shallow	Other	None	Medium	0.097
Ponderosa pine (WA)	Wet	Shallow	Other	None	Large	0.034
Ponderosa pine (WA)	Wet	Shallow	Other	Increase	Small	0.187
Ponderosa pine (WA)	Wet	Shallow	Other	Increase	Medium	0.097
Ponderosa pine (WA)	Wet	Shallow	Other	Increase	Large	0.034

Species group	Soil moisture	Soil depth	Slope Position	Decay rate adjustment	Snag dbh	Snag fall rate
Ponderosa pine (WA)	Wet	Shallow	Ridgetop	Decrease	Small	0.312
Ponderosa pine (WA)	Wet	Shallow	Ridgetop	Decrease	Medium	0.162
Ponderosa pine (WA)	Wet	Shallow	Ridgetop	Decrease	Large	0.056
Ponderosa pine (WA)	Wet	Shallow	Ridgetop	None	Small	0.312
Ponderosa pine (WA)	Wet	Shallow	Ridgetop	None	Medium	0.162
Ponderosa pine (WA)	Wet	Shallow	Ridgetop	None	Large	0.056
Ponderosa pine (WA)	Wet	Shallow	Ridgetop	Increase	Small	0.312
Ponderosa pine (WA)	Wet	Shallow	Ridgetop	Increase	Medium	0.162
Ponderosa pine (WA)	Wet	Shallow	Ridgetop	Increase	Large	0.056
Ponderosa pine (WA)	Mesic	Other	Other	Decrease	Small	0.140
Ponderosa pine (WA)	Mesic	Other	Other	Decrease	Medium	0.073
Ponderosa pine (WA)	Mesic	Other	Other	Decrease	Large	0.025
Ponderosa pine (WA)	Mesic	Other	Other	None	Small	0.156
Ponderosa pine (WA)	Mesic	Other	Other	None	Medium	0.081
Ponderosa pine (WA)	Mesic	Other	Other	None	Large	0.028
Ponderosa pine (WA)	Mesic	Other	Other	Increase	Small	0.187
Ponderosa pine (WA)	Mesic	Other	Other	Increase	Medium	0.097
Ponderosa pine (WA)	Mesic	Other	Other	Increase	Large	0.034
Ponderosa pine (WA)	Mesic	Other	Ridgetop	Decrease	Small	0.265
Ponderosa pine (WA)	Mesic	Other	Ridgetop	Decrease	Medium	0.138
Ponderosa pine (WA)	Mesic	Other	Ridgetop	Decrease	Large	0.048
Ponderosa pine (WA)	Mesic	Other	Ridgetop	None	Small	0.265
Ponderosa pine (WA)	Mesic	Other	Ridgetop	None	Medium	0.138
Ponderosa pine (WA)	Mesic	Other	Ridgetop	None	Large	0.048
Ponderosa pine (WA)	Mesic	Other	Ridgetop	Increase	Small	0.281
Ponderosa pine (WA)	Mesic	Other	Ridgetop	Increase	Medium	0.146
Ponderosa pine (WA)	Mesic	Other	Ridgetop	Increase	Large	0.050
Ponderosa pine (WA)	Mesic	Shallow	Other	Decrease	Small	0.172
Ponderosa pine (WA)	Mesic	Shallow	Other	Decrease	Medium	0.089
Ponderosa pine (WA)	Mesic	Shallow	Other	Decrease	Large	0.031
Ponderosa pine (WA)	Mesic	Shallow	Other	None	Small	0.187
Ponderosa pine (WA)	Mesic	Shallow	Other	None	Medium	0.097
Ponderosa pine (WA)	Mesic	Shallow	Other	None	Large	0.034
Ponderosa pine (WA)	Mesic	Shallow	Other	Increase	Small	0.187
Ponderosa pine (WA)	Mesic	Shallow	Other	Increase	Medium	0.097
Ponderosa pine (WA)	Mesic	Shallow	Other	Increase	Large	0.034
Ponderosa pine (WA)	Mesic	Shallow	Ridgetop	Decrease	Small	0.312
Ponderosa pine (WA)	Mesic	Shallow	Ridgetop	Decrease	Medium	0.162
Ponderosa pine (WA)	Mesic	Shallow	Ridgetop	Decrease	Large	0.056
Ponderosa pine (WA)	Mesic	Shallow	Ridgetop	None	Small	0.312
Ponderosa pine (WA)	Mesic	Shallow	Ridgetop	None	Medium	0.162



<b>Species group</b>	<b>Soil moisture</b>	<b>Soil depth</b>	<b>Slope Position</b>	<b>Decay rate adjustment</b>	<b>Snag dbh</b>	<b>Snag fall rate</b>
Ponderosa pine (WA)	Mesic	Shallow	Ridgetop	None	Large	0.056
Ponderosa pine (WA)	Mesic	Shallow	Ridgetop	Increase	Small	0.312
Ponderosa pine (WA)	Mesic	Shallow	Ridgetop	Increase	Medium	0.162
Ponderosa pine (WA)	Mesic	Shallow	Ridgetop	Increase	Large	0.056
Ponderosa pine (WA)	Dry	Other	Other	Decrease	Small	0.152
Ponderosa pine (WA)	Dry	Other	Other	Decrease	Medium	0.079
Ponderosa pine (WA)	Dry	Other	Other	Decrease	Large	0.027
Ponderosa pine (WA)	Dry	Other	Other	None	Small	0.172
Ponderosa pine (WA)	Dry	Other	Other	None	Medium	0.089
Ponderosa pine (WA)	Dry	Other	Other	None	Large	0.031
Ponderosa pine (WA)	Dry	Other	Other	Increase	Small	0.187
Ponderosa pine (WA)	Dry	Other	Other	Increase	Medium	0.097
Ponderosa pine (WA)	Dry	Other	Other	Increase	Large	0.034
Ponderosa pine (WA)	Dry	Other	Ridgetop	Decrease	Small	0.289
Ponderosa pine (WA)	Dry	Other	Ridgetop	Decrease	Medium	0.150
Ponderosa pine (WA)	Dry	Other	Ridgetop	Decrease	Large	0.052
Ponderosa pine (WA)	Dry	Other	Ridgetop	None	Small	0.289
Ponderosa pine (WA)	Dry	Other	Ridgetop	None	Medium	0.150
Ponderosa pine (WA)	Dry	Other	Ridgetop	None	Large	0.052
Ponderosa pine (WA)	Dry	Other	Ridgetop	Increase	Small	0.296
Ponderosa pine (WA)	Dry	Other	Ridgetop	Increase	Medium	0.154
Ponderosa pine (WA)	Dry	Other	Ridgetop	Increase	Large	0.053
Ponderosa pine (WA)	Dry	Shallow	Other	Decrease	Small	0.172
Ponderosa pine (WA)	Dry	Shallow	Other	Decrease	Medium	0.089
Ponderosa pine (WA)	Dry	Shallow	Other	Decrease	Large	0.031
Ponderosa pine (WA)	Dry	Shallow	Other	None	Small	0.187
Ponderosa pine (WA)	Dry	Shallow	Other	None	Medium	0.097
Ponderosa pine (WA)	Dry	Shallow	Other	None	Large	0.034
Ponderosa pine (WA)	Dry	Shallow	Other	Increase	Small	0.187
Ponderosa pine (WA)	Dry	Shallow	Other	Increase	Medium	0.097
Ponderosa pine (WA)	Dry	Shallow	Other	Increase	Large	0.034
Ponderosa pine (WA)	Dry	Shallow	Ridgetop	Decrease	Small	0.312
Ponderosa pine (WA)	Dry	Shallow	Ridgetop	Decrease	Medium	0.162
Ponderosa pine (WA)	Dry	Shallow	Ridgetop	Decrease	Large	0.056
Ponderosa pine (WA)	Dry	Shallow	Ridgetop	None	Small	0.312
Ponderosa pine (WA)	Dry	Shallow	Ridgetop	None	Medium	0.162
Ponderosa pine (WA)	Dry	Shallow	Ridgetop	None	Large	0.056
Ponderosa pine (WA)	Dry	Shallow	Ridgetop	Increase	Small	0.312
Ponderosa pine (WA)	Dry	Shallow	Ridgetop	Increase	Medium	0.162
Ponderosa pine (WA)	Dry	Shallow	Ridgetop	Increase	Large	0.056
Pacific silver fir (OR)	Wet	Other	Other	Decrease	Small	0.067

Species group	Soil moisture	Soil depth	Slope Position	Decay rate adjustment	Snag dbh	Snag fall rate
Pacific silver fir (OR)	Wet	Other	Other	Decrease	Medium	0.038
Pacific silver fir (OR)	Wet	Other	Other	Decrease	Large	0.017
Pacific silver fir (OR)	Wet	Other	Other	None	Small	0.075
Pacific silver fir (OR)	Wet	Other	Other	None	Medium	0.042
Pacific silver fir (OR)	Wet	Other	Other	None	Large	0.019
Pacific silver fir (OR)	Wet	Other	Other	Increase	Small	0.092
Pacific silver fir (OR)	Wet	Other	Other	Increase	Medium	0.052
Pacific silver fir (OR)	Wet	Other	Other	Increase	Large	0.023
Pacific silver fir (OR)	Wet	Other	Ridgetop	Decrease	Small	0.119
Pacific silver fir (OR)	Wet	Other	Ridgetop	Decrease	Medium	0.067
Pacific silver fir (OR)	Wet	Other	Ridgetop	Decrease	Large	0.029
Pacific silver fir (OR)	Wet	Other	Ridgetop	None	Small	0.123
Pacific silver fir (OR)	Wet	Other	Ridgetop	None	Medium	0.069
Pacific silver fir (OR)	Wet	Other	Ridgetop	None	Large	0.030
Pacific silver fir (OR)	Wet	Other	Ridgetop	Increase	Small	0.131
Pacific silver fir (OR)	Wet	Other	Ridgetop	Increase	Medium	0.073
Pacific silver fir (OR)	Wet	Other	Ridgetop	Increase	Large	0.032
Pacific silver fir (OR)	Wet	Shallow	Other	Decrease	Small	0.085
Pacific silver fir (OR)	Wet	Shallow	Other	Decrease	Medium	0.047
Pacific silver fir (OR)	Wet	Shallow	Other	Decrease	Large	0.021
Pacific silver fir (OR)	Wet	Shallow	Other	None	Small	0.092
Pacific silver fir (OR)	Wet	Shallow	Other	None	Medium	0.052
Pacific silver fir (OR)	Wet	Shallow	Other	None	Large	0.023
Pacific silver fir (OR)	Wet	Shallow	Other	Increase	Small	0.092
Pacific silver fir (OR)	Wet	Shallow	Other	Increase	Medium	0.052
Pacific silver fir (OR)	Wet	Shallow	Other	Increase	Large	0.023
Pacific silver fir (OR)	Wet	Shallow	Ridgetop	Decrease	Small	0.154
Pacific silver fir (OR)	Wet	Shallow	Ridgetop	Decrease	Medium	0.086
Pacific silver fir (OR)	Wet	Shallow	Ridgetop	Decrease	Large	0.038
Pacific silver fir (OR)	Wet	Shallow	Ridgetop	None	Small	0.154
Pacific silver fir (OR)	Wet	Shallow	Ridgetop	None	Medium	0.086
Pacific silver fir (OR)	Wet	Shallow	Ridgetop	None	Large	0.038
Pacific silver fir (OR)	Wet	Shallow	Ridgetop	Increase	Small	0.154
Pacific silver fir (OR)	Wet	Shallow	Ridgetop	Increase	Medium	0.086
Pacific silver fir (OR)	Wet	Shallow	Ridgetop	Increase	Large	0.038
Pacific silver fir (OR)	Mesic	Other	Other	Decrease	Small	0.069
Pacific silver fir (OR)	Mesic	Other	Other	Decrease	Medium	0.039
Pacific silver fir (OR)	Mesic	Other	Other	Decrease	Large	0.017
Pacific silver fir (OR)	Mesic	Other	Other	None	Small	0.077
Pacific silver fir (OR)	Mesic	Other	Other	None	Medium	0.043
Pacific silver fir (OR)	Mesic	Other	Other	None	Large	0.019

<b>Species group</b>	<b>Soil moisture</b>	<b>Soil depth</b>	<b>Slope Position</b>	<b>Decay rate adjustment</b>	<b>Snag dbh</b>	<b>Snag fall rate</b>
Pacific silver fir (OR)	Mesic	Other	Other	Increase	Small	0.092
Pacific silver fir (OR)	Mesic	Other	Other	Increase	Medium	0.052
Pacific silver fir (OR)	Mesic	Other	Other	Increase	Large	0.023
Pacific silver fir (OR)	Mesic	Other	Ridgetop	Decrease	Small	0.131
Pacific silver fir (OR)	Mesic	Other	Ridgetop	Decrease	Medium	0.073
Pacific silver fir (OR)	Mesic	Other	Ridgetop	Decrease	Large	0.032
Pacific silver fir (OR)	Mesic	Other	Ridgetop	None	Small	0.131
Pacific silver fir (OR)	Mesic	Other	Ridgetop	None	Medium	0.073
Pacific silver fir (OR)	Mesic	Other	Ridgetop	None	Large	0.032
Pacific silver fir (OR)	Mesic	Other	Ridgetop	Increase	Small	0.139
Pacific silver fir (OR)	Mesic	Other	Ridgetop	Increase	Medium	0.077
Pacific silver fir (OR)	Mesic	Other	Ridgetop	Increase	Large	0.034
Pacific silver fir (OR)	Mesic	Shallow	Other	Decrease	Small	0.085
Pacific silver fir (OR)	Mesic	Shallow	Other	Decrease	Medium	0.047
Pacific silver fir (OR)	Mesic	Shallow	Other	Decrease	Large	0.021
Pacific silver fir (OR)	Mesic	Shallow	Other	None	Small	0.092
Pacific silver fir (OR)	Mesic	Shallow	Other	None	Medium	0.052
Pacific silver fir (OR)	Mesic	Shallow	Other	None	Large	0.023
Pacific silver fir (OR)	Mesic	Shallow	Other	Increase	Small	0.092
Pacific silver fir (OR)	Mesic	Shallow	Other	Increase	Medium	0.052
Pacific silver fir (OR)	Mesic	Shallow	Other	Increase	Large	0.023
Pacific silver fir (OR)	Mesic	Shallow	Ridgetop	Decrease	Small	0.154
Pacific silver fir (OR)	Mesic	Shallow	Ridgetop	Decrease	Medium	0.086
Pacific silver fir (OR)	Mesic	Shallow	Ridgetop	Decrease	Large	0.038
Pacific silver fir (OR)	Mesic	Shallow	Ridgetop	None	Small	0.154
Pacific silver fir (OR)	Mesic	Shallow	Ridgetop	None	Medium	0.086
Pacific silver fir (OR)	Mesic	Shallow	Ridgetop	None	Large	0.038
Pacific silver fir (OR)	Mesic	Shallow	Ridgetop	Increase	Small	0.154
Pacific silver fir (OR)	Mesic	Shallow	Ridgetop	Increase	Medium	0.086
Pacific silver fir (OR)	Mesic	Shallow	Ridgetop	Increase	Large	0.038
Pacific silver fir (OR)	Dry	Other	Other	Decrease	Small	0.075
Pacific silver fir (OR)	Dry	Other	Other	Decrease	Medium	0.042
Pacific silver fir (OR)	Dry	Other	Other	Decrease	Large	0.019
Pacific silver fir (OR)	Dry	Other	Other	None	Small	0.085
Pacific silver fir (OR)	Dry	Other	Other	None	Medium	0.047
Pacific silver fir (OR)	Dry	Other	Other	None	Large	0.021
Pacific silver fir (OR)	Dry	Other	Other	Increase	Small	0.092
Pacific silver fir (OR)	Dry	Other	Other	Increase	Medium	0.052
Pacific silver fir (OR)	Dry	Other	Other	Increase	Large	0.023
Pacific silver fir (OR)	Dry	Other	Ridgetop	Decrease	Small	0.142
Pacific silver fir (OR)	Dry	Other	Ridgetop	Decrease	Medium	0.080

Species group	Soil moisture	Soil depth	Slope Position	Decay rate adjustment	Snag dbh	Snag fall rate
Pacific silver fir (OR)	Dry	Other	Ridgetop	Decrease	Large	0.035
Pacific silver fir (OR)	Dry	Other	Ridgetop	None	Small	0.142
Pacific silver fir (OR)	Dry	Other	Ridgetop	None	Medium	0.080
Pacific silver fir (OR)	Dry	Other	Ridgetop	None	Large	0.035
Pacific silver fir (OR)	Dry	Other	Ridgetop	Increase	Small	0.146
Pacific silver fir (OR)	Dry	Other	Ridgetop	Increase	Medium	0.082
Pacific silver fir (OR)	Dry	Other	Ridgetop	Increase	Large	0.036
Pacific silver fir (OR)	Dry	Shallow	Other	Decrease	Small	0.085
Pacific silver fir (OR)	Dry	Shallow	Other	Decrease	Medium	0.047
Pacific silver fir (OR)	Dry	Shallow	Other	Decrease	Large	0.021
Pacific silver fir (OR)	Dry	Shallow	Other	None	Small	0.092
Pacific silver fir (OR)	Dry	Shallow	Other	None	Medium	0.052
Pacific silver fir (OR)	Dry	Shallow	Other	None	Large	0.023
Pacific silver fir (OR)	Dry	Shallow	Other	Increase	Small	0.092
Pacific silver fir (OR)	Dry	Shallow	Other	Increase	Medium	0.052
Pacific silver fir (OR)	Dry	Shallow	Other	Increase	Large	0.023
Pacific silver fir (OR)	Dry	Shallow	Ridgetop	Decrease	Small	0.154
Pacific silver fir (OR)	Dry	Shallow	Ridgetop	Decrease	Medium	0.086
Pacific silver fir (OR)	Dry	Shallow	Ridgetop	Decrease	Large	0.038
Pacific silver fir (OR)	Dry	Shallow	Ridgetop	None	Small	0.154
Pacific silver fir (OR)	Dry	Shallow	Ridgetop	None	Medium	0.086
Pacific silver fir (OR)	Dry	Shallow	Ridgetop	None	Large	0.038
Pacific silver fir (OR)	Dry	Shallow	Ridgetop	Increase	Small	0.154
Pacific silver fir (OR)	Dry	Shallow	Ridgetop	Increase	Medium	0.086
Pacific silver fir (OR)	Dry	Shallow	Ridgetop	Increase	Large	0.038
Pacific silver fir (WA)	Wet	Other	Other	Decrease	Small	0.043
Pacific silver fir (WA)	Wet	Other	Other	Decrease	Medium	0.026
Pacific silver fir (WA)	Wet	Other	Other	Decrease	Large	0.011
Pacific silver fir (WA)	Wet	Other	Other	None	Small	0.048
Pacific silver fir (WA)	Wet	Other	Other	None	Medium	0.029
Pacific silver fir (WA)	Wet	Other	Other	None	Large	0.013
Pacific silver fir (WA)	Wet	Other	Other	Increase	Small	0.059
Pacific silver fir (WA)	Wet	Other	Other	Increase	Medium	0.036
Pacific silver fir (WA)	Wet	Other	Other	Increase	Large	0.016
Pacific silver fir (WA)	Wet	Other	Ridgetop	Decrease	Small	0.076
Pacific silver fir (WA)	Wet	Other	Ridgetop	Decrease	Medium	0.047
Pacific silver fir (WA)	Wet	Other	Ridgetop	Decrease	Large	0.020
Pacific silver fir (WA)	Wet	Other	Ridgetop	None	Small	0.078
Pacific silver fir (WA)	Wet	Other	Ridgetop	None	Medium	0.048
Pacific silver fir (WA)	Wet	Other	Ridgetop	None	Large	0.021
Pacific silver fir (WA)	Wet	Other	Ridgetop	Increase	Small	0.083

Species group	Soil moisture	Soil depth	Slope Position	Decay rate adjustment	Snag dbh	Snag fall rate
Pacific silver fir (WA)	Wet	Other	Ridgetop	Increase	Medium	0.051
Pacific silver fir (WA)	Wet	Other	Ridgetop	Increase	Large	0.022
Pacific silver fir (WA)	Wet	Shallow	Other	Decrease	Small	0.054
Pacific silver fir (WA)	Wet	Shallow	Other	Decrease	Medium	0.033
Pacific silver fir (WA)	Wet	Shallow	Other	Decrease	Large	0.014
Pacific silver fir (WA)	Wet	Shallow	Other	None	Small	0.059
Pacific silver fir (WA)	Wet	Shallow	Other	None	Medium	0.036
Pacific silver fir (WA)	Wet	Shallow	Other	None	Large	0.016
Pacific silver fir (WA)	Wet	Shallow	Other	Increase	Small	0.059
Pacific silver fir (WA)	Wet	Shallow	Other	Increase	Medium	0.036
Pacific silver fir (WA)	Wet	Shallow	Other	Increase	Large	0.016
Pacific silver fir (WA)	Wet	Shallow	Ridgetop	Decrease	Small	0.098
Pacific silver fir (WA)	Wet	Shallow	Ridgetop	Decrease	Medium	0.060
Pacific silver fir (WA)	Wet	Shallow	Ridgetop	Decrease	Large	0.026
Pacific silver fir (WA)	Wet	Shallow	Ridgetop	None	Small	0.098
Pacific silver fir (WA)	Wet	Shallow	Ridgetop	None	Medium	0.060
Pacific silver fir (WA)	Wet	Shallow	Ridgetop	None	Large	0.026
Pacific silver fir (WA)	Wet	Shallow	Ridgetop	Increase	Small	0.098
Pacific silver fir (WA)	Wet	Shallow	Ridgetop	Increase	Medium	0.060
Pacific silver fir (WA)	Wet	Shallow	Ridgetop	Increase	Large	0.026
Pacific silver fir (WA)	Mesic	Other	Other	Decrease	Small	0.044
Pacific silver fir (WA)	Mesic	Other	Other	Decrease	Medium	0.027
Pacific silver fir (WA)	Mesic	Other	Other	Decrease	Large	0.012
Pacific silver fir (WA)	Mesic	Other	Other	None	Small	0.049
Pacific silver fir (WA)	Mesic	Other	Other	None	Medium	0.030
Pacific silver fir (WA)	Mesic	Other	Other	None	Large	0.013
Pacific silver fir (WA)	Mesic	Other	Other	Increase	Small	0.059
Pacific silver fir (WA)	Mesic	Other	Other	Increase	Medium	0.036
Pacific silver fir (WA)	Mesic	Other	Other	Increase	Large	0.016
Pacific silver fir (WA)	Mesic	Other	Ridgetop	Decrease	Small	0.083
Pacific silver fir (WA)	Mesic	Other	Ridgetop	Decrease	Medium	0.051
Pacific silver fir (WA)	Mesic	Other	Ridgetop	Decrease	Large	0.022
Pacific silver fir (WA)	Mesic	Other	Ridgetop	None	Small	0.083
Pacific silver fir (WA)	Mesic	Other	Ridgetop	None	Medium	0.051
Pacific silver fir (WA)	Mesic	Other	Ridgetop	None	Large	0.022
Pacific silver fir (WA)	Mesic	Other	Ridgetop	Increase	Small	0.088
Pacific silver fir (WA)	Mesic	Other	Ridgetop	Increase	Medium	0.054
Pacific silver fir (WA)	Mesic	Other	Ridgetop	Increase	Large	0.023
Pacific silver fir (WA)	Mesic	Shallow	Other	Decrease	Small	0.054
Pacific silver fir (WA)	Mesic	Shallow	Other	Decrease	Medium	0.033
Pacific silver fir (WA)	Mesic	Shallow	Other	Decrease	Large	0.014

Species group	Soil moisture	Soil depth	Slope Position	Decay rate adjustment	Snag dbh	Snag fall rate
Pacific silver fir (WA)	Mesic	Shallow	Other	None	Small	0.059
Pacific silver fir (WA)	Mesic	Shallow	Other	None	Medium	0.036
Pacific silver fir (WA)	Mesic	Shallow	Other	None	Large	0.016
Pacific silver fir (WA)	Mesic	Shallow	Other	Increase	Small	0.059
Pacific silver fir (WA)	Mesic	Shallow	Other	Increase	Medium	0.036
Pacific silver fir (WA)	Mesic	Shallow	Other	Increase	Large	0.016
Pacific silver fir (WA)	Mesic	Shallow	Ridgetop	Decrease	Small	0.098
Pacific silver fir (WA)	Mesic	Shallow	Ridgetop	Decrease	Medium	0.060
Pacific silver fir (WA)	Mesic	Shallow	Ridgetop	Decrease	Large	0.026
Pacific silver fir (WA)	Mesic	Shallow	Ridgetop	None	Small	0.098
Pacific silver fir (WA)	Mesic	Shallow	Ridgetop	None	Medium	0.060
Pacific silver fir (WA)	Mesic	Shallow	Ridgetop	None	Large	0.026
Pacific silver fir (WA)	Mesic	Shallow	Ridgetop	Increase	Small	0.098
Pacific silver fir (WA)	Mesic	Shallow	Ridgetop	Increase	Medium	0.060
Pacific silver fir (WA)	Mesic	Shallow	Ridgetop	Increase	Large	0.026
Pacific silver fir (WA)	Dry	Other	Other	Decrease	Small	0.048
Pacific silver fir (WA)	Dry	Other	Other	Decrease	Medium	0.029
Pacific silver fir (WA)	Dry	Other	Other	Decrease	Large	0.013
Pacific silver fir (WA)	Dry	Other	Other	None	Small	0.054
Pacific silver fir (WA)	Dry	Other	Other	None	Medium	0.033
Pacific silver fir (WA)	Dry	Other	Other	None	Large	0.014
Pacific silver fir (WA)	Dry	Other	Other	Increase	Small	0.059
Pacific silver fir (WA)	Dry	Other	Other	Increase	Medium	0.036
Pacific silver fir (WA)	Dry	Other	Other	Increase	Large	0.016
Pacific silver fir (WA)	Dry	Other	Ridgetop	Decrease	Small	0.091
Pacific silver fir (WA)	Dry	Other	Ridgetop	Decrease	Medium	0.056
Pacific silver fir (WA)	Dry	Other	Ridgetop	Decrease	Large	0.024
Pacific silver fir (WA)	Dry	Other	Ridgetop	None	Small	0.091
Pacific silver fir (WA)	Dry	Other	Ridgetop	None	Medium	0.056
Pacific silver fir (WA)	Dry	Other	Ridgetop	None	Large	0.024
Pacific silver fir (WA)	Dry	Other	Ridgetop	Increase	Small	0.093
Pacific silver fir (WA)	Dry	Other	Ridgetop	Increase	Medium	0.057
Pacific silver fir (WA)	Dry	Other	Ridgetop	Increase	Large	0.025
Pacific silver fir (WA)	Dry	Shallow	Other	Decrease	Small	0.054
Pacific silver fir (WA)	Dry	Shallow	Other	Decrease	Medium	0.033
Pacific silver fir (WA)	Dry	Shallow	Other	Decrease	Large	0.014
Pacific silver fir (WA)	Dry	Shallow	Other	None	Small	0.059
Pacific silver fir (WA)	Dry	Shallow	Other	None	Medium	0.036
Pacific silver fir (WA)	Dry	Shallow	Other	None	Large	0.016
Pacific silver fir (WA)	Dry	Shallow	Other	Increase	Small	0.059
Pacific silver fir (WA)	Dry	Shallow	Other	Increase	Medium	0.036



Species group	Soil moisture	Soil depth	Slope Position	Decay rate adjustment	Snag dbh	Snag fall rate
Pacific silver fir (WA)	Dry	Shallow	Other	Increase	Large	0.016
Pacific silver fir (WA)	Dry	Shallow	Ridgetop	Decrease	Small	0.098
Pacific silver fir (WA)	Dry	Shallow	Ridgetop	Decrease	Medium	0.060
Pacific silver fir (WA)	Dry	Shallow	Ridgetop	Decrease	Large	0.026
Pacific silver fir (WA)	Dry	Shallow	Ridgetop	None	Small	0.098
Pacific silver fir (WA)	Dry	Shallow	Ridgetop	None	Medium	0.060
Pacific silver fir (WA)	Dry	Shallow	Ridgetop	None	Large	0.026
Pacific silver fir (WA)	Dry	Shallow	Ridgetop	Increase	Small	0.098
Pacific silver fir (WA)	Dry	Shallow	Ridgetop	Increase	Medium	0.060
Pacific silver fir (WA)	Dry	Shallow	Ridgetop	Increase	Large	0.026
Grand/white fir	Wet	Other	Other	Decrease	Small	0.088
Grand/white fir	Wet	Other	Other	Decrease	Medium	0.032
Grand/white fir	Wet	Other	Other	Decrease	Large	0.016
Grand/white fir	Wet	Other	Other	None	Small	0.098
Grand/white fir	Wet	Other	Other	None	Medium	0.035
Grand/white fir	Wet	Other	Other	None	Large	0.018
Grand/white fir	Wet	Other	Other	Increase	Small	0.120
Grand/white fir	Wet	Other	Other	Increase	Medium	0.043
Grand/white fir	Wet	Other	Other	Increase	Large	0.022
Grand/white fir	Wet	Other	Ridgetop	Decrease	Small	0.155
Grand/white fir	Wet	Other	Ridgetop	Decrease	Medium	0.056
Grand/white fir	Wet	Other	Ridgetop	Decrease	Large	0.028
Grand/white fir	Wet	Other	Ridgetop	None	Small	0.160
Grand/white fir	Wet	Other	Ridgetop	None	Medium	0.058
Grand/white fir	Wet	Other	Ridgetop	None	Large	0.029
Grand/white fir	Wet	Other	Ridgetop	Increase	Small	0.170
Grand/white fir	Wet	Other	Ridgetop	Increase	Medium	0.061
Grand/white fir	Wet	Other	Ridgetop	Increase	Large	0.031
Grand/white fir	Wet	Shallow	Other	Decrease	Small	0.110
Grand/white fir	Wet	Shallow	Other	Decrease	Medium	0.040
Grand/white fir	Wet	Shallow	Other	Decrease	Large	0.020
Grand/white fir	Wet	Shallow	Other	None	Small	0.120
Grand/white fir	Wet	Shallow	Other	None	Medium	0.043
Grand/white fir	Wet	Shallow	Other	None	Large	0.022
Grand/white fir	Wet	Shallow	Other	Increase	Small	0.120
Grand/white fir	Wet	Shallow	Other	Increase	Medium	0.043
Grand/white fir	Wet	Shallow	Other	Increase	Large	0.022
Grand/white fir	Wet	Shallow	Ridgetop	Decrease	Small	0.200
Grand/white fir	Wet	Shallow	Ridgetop	Decrease	Medium	0.072
Grand/white fir	Wet	Shallow	Ridgetop	Decrease	Large	0.036
Grand/white fir	Wet	Shallow	Ridgetop	None	Small	0.200

Species group	Soil moisture	Soil depth	Slope Position	Decay rate adjustment	Snag dbh	Snag fall rate
Grand/white fir	Wet	Shallow	Ridgetop	None	Medium	0.072
Grand/white fir	Wet	Shallow	Ridgetop	None	Large	0.036
Grand/white fir	Wet	Shallow	Ridgetop	Increase	Small	0.200
Grand/white fir	Wet	Shallow	Ridgetop	Increase	Medium	0.072
Grand/white fir	Wet	Shallow	Ridgetop	Increase	Large	0.036
Grand/white fir	Mesic	Other	Other	Decrease	Small	0.090
Grand/white fir	Mesic	Other	Other	Decrease	Medium	0.032
Grand/white fir	Mesic	Other	Other	Decrease	Large	0.016
Grand/white fir	Mesic	Other	Other	None	Small	0.100
Grand/white fir	Mesic	Other	Other	None	Medium	0.036
Grand/white fir	Mesic	Other	Other	None	Large	0.018
Grand/white fir	Mesic	Other	Other	Increase	Small	0.120
Grand/white fir	Mesic	Other	Other	Increase	Medium	0.043
Grand/white fir	Mesic	Other	Other	Increase	Large	0.022
Grand/white fir	Mesic	Other	Ridgetop	Decrease	Small	0.170
Grand/white fir	Mesic	Other	Ridgetop	Decrease	Medium	0.061
Grand/white fir	Mesic	Other	Ridgetop	Decrease	Large	0.031
Grand/white fir	Mesic	Other	Ridgetop	None	Small	0.170
Grand/white fir	Mesic	Other	Ridgetop	None	Medium	0.061
Grand/white fir	Mesic	Other	Ridgetop	None	Large	0.031
Grand/white fir	Mesic	Other	Ridgetop	Increase	Small	0.180
Grand/white fir	Mesic	Other	Ridgetop	Increase	Medium	0.065
Grand/white fir	Mesic	Other	Ridgetop	Increase	Large	0.032
Grand/white fir	Mesic	Shallow	Other	Decrease	Small	0.110
Grand/white fir	Mesic	Shallow	Other	Decrease	Medium	0.040
Grand/white fir	Mesic	Shallow	Other	Decrease	Large	0.020
Grand/white fir	Mesic	Shallow	Other	None	Small	0.120
Grand/white fir	Mesic	Shallow	Other	None	Medium	0.043
Grand/white fir	Mesic	Shallow	Other	None	Large	0.022
Grand/white fir	Mesic	Shallow	Other	Increase	Small	0.120
Grand/white fir	Mesic	Shallow	Other	Increase	Medium	0.043
Grand/white fir	Mesic	Shallow	Other	Increase	Large	0.022
Grand/white fir	Mesic	Shallow	Ridgetop	Decrease	Small	0.200
Grand/white fir	Mesic	Shallow	Ridgetop	Decrease	Medium	0.072
Grand/white fir	Mesic	Shallow	Ridgetop	Decrease	Large	0.036
Grand/white fir	Mesic	Shallow	Ridgetop	None	Small	0.200
Grand/white fir	Mesic	Shallow	Ridgetop	None	Medium	0.072
Grand/white fir	Mesic	Shallow	Ridgetop	None	Large	0.036
Grand/white fir	Mesic	Shallow	Ridgetop	Increase	Small	0.200
Grand/white fir	Mesic	Shallow	Ridgetop	Increase	Medium	0.072
Grand/white fir	Mesic	Shallow	Ridgetop	Increase	Large	0.036



Species group	Soil moisture	Soil depth	Slope Position	Decay rate adjustment	Snag dbh	Snag fall rate
Grand/white fir	Dry	Other	Other	Decrease	Small	0.098
Grand/white fir	Dry	Other	Other	Decrease	Medium	0.035
Grand/white fir	Dry	Other	Other	Decrease	Large	0.018
Grand/white fir	Dry	Other	Other	None	Small	0.110
Grand/white fir	Dry	Other	Other	None	Medium	0.040
Grand/white fir	Dry	Other	Other	None	Large	0.020
Grand/white fir	Dry	Other	Other	Increase	Small	0.120
Grand/white fir	Dry	Other	Other	Increase	Medium	0.043
Grand/white fir	Dry	Other	Other	Increase	Large	0.022
Grand/white fir	Dry	Other	Ridgetop	Decrease	Small	0.185
Grand/white fir	Dry	Other	Ridgetop	Decrease	Medium	0.067
Grand/white fir	Dry	Other	Ridgetop	Decrease	Large	0.033
Grand/white fir	Dry	Other	Ridgetop	None	Small	0.185
Grand/white fir	Dry	Other	Ridgetop	None	Medium	0.067
Grand/white fir	Dry	Other	Ridgetop	None	Large	0.033
Grand/white fir	Dry	Other	Ridgetop	Increase	Small	0.190
Grand/white fir	Dry	Other	Ridgetop	Increase	Medium	0.068
Grand/white fir	Dry	Other	Ridgetop	Increase	Large	0.034
Grand/white fir	Dry	Shallow	Other	Decrease	Small	0.110
Grand/white fir	Dry	Shallow	Other	Decrease	Medium	0.040
Grand/white fir	Dry	Shallow	Other	Decrease	Large	0.020
Grand/white fir	Dry	Shallow	Other	None	Small	0.120
Grand/white fir	Dry	Shallow	Other	None	Medium	0.043
Grand/white fir	Dry	Shallow	Other	None	Large	0.022
Grand/white fir	Dry	Shallow	Other	Increase	Small	0.120
Grand/white fir	Dry	Shallow	Other	Increase	Medium	0.043
Grand/white fir	Dry	Shallow	Other	Increase	Large	0.022
Grand/white fir	Dry	Shallow	Ridgetop	Decrease	Small	0.200
Grand/white fir	Dry	Shallow	Ridgetop	Decrease	Medium	0.072
Grand/white fir	Dry	Shallow	Ridgetop	Decrease	Large	0.036
Grand/white fir	Dry	Shallow	Ridgetop	None	Small	0.200
Grand/white fir	Dry	Shallow	Ridgetop	None	Medium	0.072
Grand/white fir	Dry	Shallow	Ridgetop	None	Large	0.036
Grand/white fir	Dry	Shallow	Ridgetop	Increase	Small	0.200
Grand/white fir	Dry	Shallow	Ridgetop	Increase	Medium	0.072
Grand/white fir	Dry	Shallow	Ridgetop	Increase	Large	0.036
Misc hardwoods	Wet	Other	Other	Decrease	Small	0.106
Misc hardwoods	Wet	Other	Other	Decrease	Medium	0.052
Misc hardwoods	Wet	Other	Other	Decrease	Large	0.036
Misc hardwoods	Wet	Other	Other	None	Small	0.118
Misc hardwoods	Wet	Other	Other	None	Medium	0.058

Species group	Soil moisture	Soil depth	Slope Position	Decay rate adjustment	Snag dbh	Snag fall rate
Misc hardwoods	Wet	Other	Other	None	Large	0.040
Misc hardwoods	Wet	Other	Other	Increase	Small	0.145
Misc hardwoods	Wet	Other	Other	Increase	Medium	0.071
Misc hardwoods	Wet	Other	Other	Increase	Large	0.049
Misc hardwoods	Wet	Other	Ridgetop	Decrease	Small	0.188
Misc hardwoods	Wet	Other	Ridgetop	Decrease	Medium	0.091
Misc hardwoods	Wet	Other	Ridgetop	Decrease	Large	0.064
Misc hardwoods	Wet	Other	Ridgetop	None	Small	0.194
Misc hardwoods	Wet	Other	Ridgetop	None	Medium	0.094
Misc hardwoods	Wet	Other	Ridgetop	None	Large	0.066
Misc hardwoods	Wet	Other	Ridgetop	Increase	Small	0.206
Misc hardwoods	Wet	Other	Ridgetop	Increase	Medium	0.100
Misc hardwoods	Wet	Other	Ridgetop	Increase	Large	0.070
Misc hardwoods	Wet	Shallow	Other	Decrease	Small	0.133
Misc hardwoods	Wet	Shallow	Other	Decrease	Medium	0.065
Misc hardwoods	Wet	Shallow	Other	Decrease	Large	0.045
Misc hardwoods	Wet	Shallow	Other	None	Small	0.145
Misc hardwoods	Wet	Shallow	Other	None	Medium	0.071
Misc hardwoods	Wet	Shallow	Other	None	Large	0.049
Misc hardwoods	Wet	Shallow	Other	Increase	Small	0.145
Misc hardwoods	Wet	Shallow	Other	Increase	Medium	0.071
Misc hardwoods	Wet	Shallow	Other	Increase	Large	0.049
Misc hardwoods	Wet	Shallow	Ridgetop	Decrease	Small	0.242
Misc hardwoods	Wet	Shallow	Ridgetop	Decrease	Medium	0.118
Misc hardwoods	Wet	Shallow	Ridgetop	Decrease	Large	0.082
Misc hardwoods	Wet	Shallow	Ridgetop	None	Small	0.242
Misc hardwoods	Wet	Shallow	Ridgetop	None	Medium	0.118
Misc hardwoods	Wet	Shallow	Ridgetop	None	Large	0.082
Misc hardwoods	Wet	Shallow	Ridgetop	Increase	Small	0.242
Misc hardwoods	Wet	Shallow	Ridgetop	Increase	Medium	0.118
Misc hardwoods	Wet	Shallow	Ridgetop	Increase	Large	0.082
Misc hardwoods	Mesic	Other	Other	Decrease	Small	0.109
Misc hardwoods	Mesic	Other	Other	Decrease	Medium	0.053
Misc hardwoods	Mesic	Other	Other	Decrease	Large	0.037
Misc hardwoods	Mesic	Other	Other	None	Small	0.121
Misc hardwoods	Mesic	Other	Other	None	Medium	0.059
Misc hardwoods	Mesic	Other	Other	None	Large	0.041
Misc hardwoods	Mesic	Other	Other	Increase	Small	0.145
Misc hardwoods	Mesic	Other	Other	Increase	Medium	0.071
Misc hardwoods	Mesic	Other	Other	Increase	Large	0.049
Misc hardwoods	Mesic	Other	Ridgetop	Decrease	Small	0.206

Species group	Soil moisture	Soil depth	Slope Position	Decay rate adjustment	Snag dbh	Snag fall rate
Misc hardwoods	Mesic	Other	Ridgetop	Decrease	Medium	0.100
Misc hardwoods	Mesic	Other	Ridgetop	Decrease	Large	0.070
Misc hardwoods	Mesic	Other	Ridgetop	None	Small	0.206
Misc hardwoods	Mesic	Other	Ridgetop	None	Medium	0.100
Misc hardwoods	Mesic	Other	Ridgetop	None	Large	0.070
Misc hardwoods	Mesic	Other	Ridgetop	Increase	Small	0.218
Misc hardwoods	Mesic	Other	Ridgetop	Increase	Medium	0.106
Misc hardwoods	Mesic	Other	Ridgetop	Increase	Large	0.074
Misc hardwoods	Mesic	Shallow	Other	Decrease	Small	0.133
Misc hardwoods	Mesic	Shallow	Other	Decrease	Medium	0.065
Misc hardwoods	Mesic	Shallow	Other	Decrease	Large	0.045
Misc hardwoods	Mesic	Shallow	Other	None	Small	0.145
Misc hardwoods	Mesic	Shallow	Other	None	Medium	0.071
Misc hardwoods	Mesic	Shallow	Other	None	Large	0.049
Misc hardwoods	Mesic	Shallow	Other	Increase	Small	0.145
Misc hardwoods	Mesic	Shallow	Other	Increase	Medium	0.071
Misc hardwoods	Mesic	Shallow	Other	Increase	Large	0.049
Misc hardwoods	Mesic	Shallow	Ridgetop	Decrease	Small	0.242
Misc hardwoods	Mesic	Shallow	Ridgetop	Decrease	Medium	0.118
Misc hardwoods	Mesic	Shallow	Ridgetop	Decrease	Large	0.082
Misc hardwoods	Mesic	Shallow	Ridgetop	None	Small	0.242
Misc hardwoods	Mesic	Shallow	Ridgetop	None	Medium	0.118
Misc hardwoods	Mesic	Shallow	Ridgetop	None	Large	0.082
Misc hardwoods	Mesic	Shallow	Ridgetop	Increase	Small	0.242
Misc hardwoods	Mesic	Shallow	Ridgetop	Increase	Medium	0.118
Misc hardwoods	Mesic	Shallow	Ridgetop	Increase	Large	0.082
Misc hardwoods	Dry	Other	Other	Decrease	Small	0.118
Misc hardwoods	Dry	Other	Other	Decrease	Medium	0.058
Misc hardwoods	Dry	Other	Other	Decrease	Large	0.040
Misc hardwoods	Dry	Other	Other	None	Small	0.133
Misc hardwoods	Dry	Other	Other	None	Medium	0.065
Misc hardwoods	Dry	Other	Other	None	Large	0.045
Misc hardwoods	Dry	Other	Other	Increase	Small	0.145
Misc hardwoods	Dry	Other	Other	Increase	Medium	0.071
Misc hardwoods	Dry	Other	Other	Increase	Large	0.049
Misc hardwoods	Dry	Other	Ridgetop	Decrease	Small	0.224
Misc hardwoods	Dry	Other	Ridgetop	Decrease	Medium	0.109
Misc hardwoods	Dry	Other	Ridgetop	Decrease	Large	0.076
Misc hardwoods	Dry	Other	Ridgetop	None	Small	0.224
Misc hardwoods	Dry	Other	Ridgetop	None	Medium	0.109
Misc hardwoods	Dry	Other	Ridgetop	None	Large	0.076

Species group	Soil moisture	Soil depth	Slope Position	Decay rate adjustment	Snag dbh	Snag fall rate
Misc hardwoods	Dry	Other	Ridgetop	Increase	Small	0.230
Misc hardwoods	Dry	Other	Ridgetop	Increase	Medium	0.112
Misc hardwoods	Dry	Other	Ridgetop	Increase	Large	0.078
Misc hardwoods	Dry	Shallow	Other	Decrease	Small	0.133
Misc hardwoods	Dry	Shallow	Other	Decrease	Medium	0.065
Misc hardwoods	Dry	Shallow	Other	Decrease	Large	0.045
Misc hardwoods	Dry	Shallow	Other	None	Small	0.145
Misc hardwoods	Dry	Shallow	Other	None	Medium	0.071
Misc hardwoods	Dry	Shallow	Other	None	Large	0.049
Misc hardwoods	Dry	Shallow	Other	Increase	Small	0.145
Misc hardwoods	Dry	Shallow	Other	Increase	Medium	0.071
Misc hardwoods	Dry	Shallow	Other	Increase	Large	0.049
Misc hardwoods	Dry	Shallow	Ridgetop	Decrease	Small	0.242
Misc hardwoods	Dry	Shallow	Ridgetop	Decrease	Medium	0.118
Misc hardwoods	Dry	Shallow	Ridgetop	Decrease	Large	0.082
Misc hardwoods	Dry	Shallow	Ridgetop	None	Small	0.242
Misc hardwoods	Dry	Shallow	Ridgetop	None	Medium	0.118
Misc hardwoods	Dry	Shallow	Ridgetop	None	Large	0.082
Misc hardwoods	Dry	Shallow	Ridgetop	Increase	Small	0.242
Misc hardwoods	Dry	Shallow	Ridgetop	Increase	Medium	0.118
Misc hardwoods	Dry	Shallow	Ridgetop	Increase	Large	0.082
Populus	Wet	Other	Other	Decrease	Small	0.124
Populus	Wet	Other	Other	Decrease	Medium	0.071
Populus	Wet	Other	Other	Decrease	Large	0.056
Populus	Wet	Other	Other	None	Small	0.138
Populus	Wet	Other	Other	None	Medium	0.079
Populus	Wet	Other	Other	None	Large	0.062
Populus	Wet	Other	Other	Increase	Small	0.170
Populus	Wet	Other	Other	Increase	Medium	0.097
Populus	Wet	Other	Other	Increase	Large	0.077
Populus	Wet	Other	Ridgetop	Decrease	Small	0.220
Populus	Wet	Other	Ridgetop	Decrease	Medium	0.126
Populus	Wet	Other	Ridgetop	Decrease	Large	0.099
Populus	Wet	Other	Ridgetop	None	Small	0.227
Populus	Wet	Other	Ridgetop	None	Medium	0.130
Populus	Wet	Other	Ridgetop	None	Large	0.102
Populus	Wet	Other	Ridgetop	Increase	Small	0.241
Populus	Wet	Other	Ridgetop	Increase	Medium	0.138
Populus	Wet	Other	Ridgetop	Increase	Large	0.109
Populus	Wet	Shallow	Other	Decrease	Small	0.156
Populus	Wet	Shallow	Other	Decrease	Medium	0.089

Species group	Soil moisture	Soil depth	Slope Position	Decay rate adjustment	Snag dbh	Snag fall rate
Populus	Wet	Shallow	Other	Decrease	Large	0.070
Populus	Wet	Shallow	Other	None	Small	0.170
Populus	Wet	Shallow	Other	None	Medium	0.097
Populus	Wet	Shallow	Other	None	Large	0.077
Populus	Wet	Shallow	Other	Increase	Small	0.170
Populus	Wet	Shallow	Other	Increase	Medium	0.097
Populus	Wet	Shallow	Other	Increase	Large	0.077
Populus	Wet	Shallow	Ridgetop	Decrease	Small	0.284
Populus	Wet	Shallow	Ridgetop	Decrease	Medium	0.162
Populus	Wet	Shallow	Ridgetop	Decrease	Large	0.128
Populus	Wet	Shallow	Ridgetop	None	Small	0.284
Populus	Wet	Shallow	Ridgetop	None	Medium	0.162
Populus	Wet	Shallow	Ridgetop	None	Large	0.128
Populus	Wet	Shallow	Ridgetop	Increase	Small	0.284
Populus	Wet	Shallow	Ridgetop	Increase	Medium	0.162
Populus	Wet	Shallow	Ridgetop	Increase	Large	0.128
Populus	Mesic	Other	Other	Decrease	Small	0.128
Populus	Mesic	Other	Other	Decrease	Medium	0.073
Populus	Mesic	Other	Other	Decrease	Large	0.058
Populus	Mesic	Other	Other	None	Small	0.142
Populus	Mesic	Other	Other	None	Medium	0.081
Populus	Mesic	Other	Other	None	Large	0.064
Populus	Mesic	Other	Other	Increase	Small	0.170
Populus	Mesic	Other	Other	Increase	Medium	0.097
Populus	Mesic	Other	Other	Increase	Large	0.077
Populus	Mesic	Other	Ridgetop	Decrease	Small	0.241
Populus	Mesic	Other	Ridgetop	Decrease	Medium	0.138
Populus	Mesic	Other	Ridgetop	Decrease	Large	0.109
Populus	Mesic	Other	Ridgetop	None	Small	0.241
Populus	Mesic	Other	Ridgetop	None	Medium	0.138
Populus	Mesic	Other	Ridgetop	None	Large	0.109
Populus	Mesic	Other	Ridgetop	Increase	Small	0.256
Populus	Mesic	Other	Ridgetop	Increase	Medium	0.146
Populus	Mesic	Other	Ridgetop	Increase	Large	0.115
Populus	Mesic	Shallow	Other	Decrease	Small	0.156
Populus	Mesic	Shallow	Other	Decrease	Medium	0.089
Populus	Mesic	Shallow	Other	Decrease	Large	0.070
Populus	Mesic	Shallow	Other	None	Small	0.170
Populus	Mesic	Shallow	Other	None	Medium	0.097
Populus	Mesic	Shallow	Other	None	Large	0.077
Populus	Mesic	Shallow	Other	Increase	Small	0.170

Species group	Soil moisture	Soil depth	Slope Position	Decay rate adjustment	Snag dbh	Snag fall rate
Populus	Mesic	Shallow	Other	Increase	Medium	0.097
Populus	Mesic	Shallow	Other	Increase	Large	0.077
Populus	Mesic	Shallow	Ridgetop	Decrease	Small	0.284
Populus	Mesic	Shallow	Ridgetop	Decrease	Medium	0.162
Populus	Mesic	Shallow	Ridgetop	Decrease	Large	0.128
Populus	Mesic	Shallow	Ridgetop	None	Small	0.284
Populus	Mesic	Shallow	Ridgetop	None	Medium	0.162
Populus	Mesic	Shallow	Ridgetop	None	Large	0.128
Populus	Mesic	Shallow	Ridgetop	Increase	Small	0.284
Populus	Mesic	Shallow	Ridgetop	Increase	Medium	0.162
Populus	Mesic	Shallow	Ridgetop	Increase	Large	0.128
Populus	Dry	Other	Other	Decrease	Small	0.138
Populus	Dry	Other	Other	Decrease	Medium	0.079
Populus	Dry	Other	Other	Decrease	Large	0.062
Populus	Dry	Other	Other	None	Small	0.156
Populus	Dry	Other	Other	None	Medium	0.089
Populus	Dry	Other	Other	None	Large	0.070
Populus	Dry	Other	Other	Increase	Small	0.170
Populus	Dry	Other	Other	Increase	Medium	0.097
Populus	Dry	Other	Other	Increase	Large	0.077
Populus	Dry	Other	Ridgetop	Decrease	Small	0.263
Populus	Dry	Other	Ridgetop	Decrease	Medium	0.150
Populus	Dry	Other	Ridgetop	Decrease	Large	0.118
Populus	Dry	Other	Ridgetop	None	Small	0.263
Populus	Dry	Other	Ridgetop	None	Medium	0.150
Populus	Dry	Other	Ridgetop	None	Large	0.118
Populus	Dry	Other	Ridgetop	Increase	Small	0.270
Populus	Dry	Other	Ridgetop	Increase	Medium	0.154
Populus	Dry	Other	Ridgetop	Increase	Large	0.122
Populus	Dry	Shallow	Other	Decrease	Small	0.156
Populus	Dry	Shallow	Other	Decrease	Medium	0.089
Populus	Dry	Shallow	Other	Decrease	Large	0.070
Populus	Dry	Shallow	Other	None	Small	0.170
Populus	Dry	Shallow	Other	None	Medium	0.097
Populus	Dry	Shallow	Other	None	Large	0.077
Populus	Dry	Shallow	Other	Increase	Small	0.170
Populus	Dry	Shallow	Other	Increase	Medium	0.097
Populus	Dry	Shallow	Other	Increase	Large	0.077
Populus	Dry	Shallow	Ridgetop	Decrease	Small	0.284
Populus	Dry	Shallow	Ridgetop	Decrease	Medium	0.162
Populus	Dry	Shallow	Ridgetop	Decrease	Large	0.128

Species group	Soil moisture	Soil depth	Slope Position	Decay rate adjustment	Snag dbh	Snag fall rate
Populus	Dry	Shallow	Ridgetop	None	Small	0.284
Populus	Dry	Shallow	Ridgetop	None	Medium	0.162
Populus	Dry	Shallow	Ridgetop	None	Large	0.128
Populus	Dry	Shallow	Ridgetop	Increase	Small	0.284
Populus	Dry	Shallow	Ridgetop	Increase	Medium	0.162
Populus	Dry	Shallow	Ridgetop	Increase	Large	0.128
Alder	Wet	Other	Other	Decrease	Small	0.122
Alder	Wet	Other	Other	Decrease	Medium	0.069
Alder	Wet	Other	Other	Decrease	Large	0.054
Alder	Wet	Other	Other	None	Small	0.136
Alder	Wet	Other	Other	None	Medium	0.077
Alder	Wet	Other	Other	None	Large	0.060
Alder	Wet	Other	Other	Increase	Small	0.167
Alder	Wet	Other	Other	Increase	Medium	0.095
Alder	Wet	Other	Other	Increase	Large	0.074
Alder	Wet	Other	Ridgetop	Decrease	Small	0.215
Alder	Wet	Other	Ridgetop	Decrease	Medium	0.122
Alder	Wet	Other	Ridgetop	Decrease	Large	0.096
Alder	Wet	Other	Ridgetop	None	Small	0.222
Alder	Wet	Other	Ridgetop	None	Medium	0.126
Alder	Wet	Other	Ridgetop	None	Large	0.099
Alder	Wet	Other	Ridgetop	Increase	Small	0.236
Alder	Wet	Other	Ridgetop	Increase	Medium	0.134
Alder	Wet	Other	Ridgetop	Increase	Large	0.105
Alder	Wet	Shallow	Other	Decrease	Small	0.153
Alder	Wet	Shallow	Other	Decrease	Medium	0.087
Alder	Wet	Shallow	Other	Decrease	Large	0.068
Alder	Wet	Shallow	Other	None	Small	0.167
Alder	Wet	Shallow	Other	None	Medium	0.095
Alder	Wet	Shallow	Other	None	Large	0.074
Alder	Wet	Shallow	Other	Increase	Small	0.167
Alder	Wet	Shallow	Other	Increase	Medium	0.095
Alder	Wet	Shallow	Other	Increase	Large	0.074
Alder	Wet	Shallow	Ridgetop	Decrease	Small	0.278
Alder	Wet	Shallow	Ridgetop	Decrease	Medium	0.158
Alder	Wet	Shallow	Ridgetop	Decrease	Large	0.124
Alder	Wet	Shallow	Ridgetop	None	Small	0.278
Alder	Wet	Shallow	Ridgetop	None	Medium	0.158
Alder	Wet	Shallow	Ridgetop	None	Large	0.124
Alder	Wet	Shallow	Ridgetop	Increase	Small	0.278
Alder	Wet	Shallow	Ridgetop	Increase	Medium	0.158



Species group	Soil moisture	Soil depth	Slope Position	Decay rate adjustment	Snag dbh	Snag fall rate
Alder	Wet	Shallow	Ridgetop	Increase	Large	0.124
Alder	Mesic	Other	Other	Decrease	Small	0.125
Alder	Mesic	Other	Other	Decrease	Medium	0.071
Alder	Mesic	Other	Other	Decrease	Large	0.056
Alder	Mesic	Other	Other	None	Small	0.139
Alder	Mesic	Other	Other	None	Medium	0.079
Alder	Mesic	Other	Other	None	Large	0.062
Alder	Mesic	Other	Other	Increase	Small	0.167
Alder	Mesic	Other	Other	Increase	Medium	0.095
Alder	Mesic	Other	Other	Increase	Large	0.074
Alder	Mesic	Other	Ridgetop	Decrease	Small	0.236
Alder	Mesic	Other	Ridgetop	Decrease	Medium	0.134
Alder	Mesic	Other	Ridgetop	Decrease	Large	0.105
Alder	Mesic	Other	Ridgetop	None	Small	0.236
Alder	Mesic	Other	Ridgetop	None	Medium	0.134
Alder	Mesic	Other	Ridgetop	None	Large	0.105
Alder	Mesic	Other	Ridgetop	Increase	Small	0.250
Alder	Mesic	Other	Ridgetop	Increase	Medium	0.142
Alder	Mesic	Other	Ridgetop	Increase	Large	0.112
Alder	Mesic	Shallow	Other	Decrease	Small	0.153
Alder	Mesic	Shallow	Other	Decrease	Medium	0.087
Alder	Mesic	Shallow	Other	Decrease	Large	0.068
Alder	Mesic	Shallow	Other	None	Small	0.167
Alder	Mesic	Shallow	Other	None	Medium	0.095
Alder	Mesic	Shallow	Other	None	Large	0.074
Alder	Mesic	Shallow	Other	Increase	Small	0.167
Alder	Mesic	Shallow	Other	Increase	Medium	0.095
Alder	Mesic	Shallow	Other	Increase	Large	0.074
Alder	Mesic	Shallow	Ridgetop	Decrease	Small	0.278
Alder	Mesic	Shallow	Ridgetop	Decrease	Medium	0.158
Alder	Mesic	Shallow	Ridgetop	Decrease	Large	0.124
Alder	Mesic	Shallow	Ridgetop	None	Small	0.278
Alder	Mesic	Shallow	Ridgetop	None	Medium	0.158
Alder	Mesic	Shallow	Ridgetop	None	Large	0.124
Alder	Mesic	Shallow	Ridgetop	Increase	Small	0.278
Alder	Mesic	Shallow	Ridgetop	Increase	Medium	0.158
Alder	Mesic	Shallow	Ridgetop	Increase	Large	0.124
Alder	Dry	Other	Other	Decrease	Small	0.136
Alder	Dry	Other	Other	Decrease	Medium	0.077
Alder	Dry	Other	Other	Decrease	Large	0.060
Alder	Dry	Other	Other	None	Small	0.153



Species group	Soil moisture	Soil depth	Slope Position	Decay rate adjustment	Snag dbh	Snag fall rate
Alder	Dry	Other	Other	None	Medium	0.087
Alder	Dry	Other	Other	None	Large	0.068
Alder	Dry	Other	Other	Increase	Small	0.167
Alder	Dry	Other	Other	Increase	Medium	0.095
Alder	Dry	Other	Other	Increase	Large	0.074
Alder	Dry	Other	Ridgetop	Decrease	Small	0.257
Alder	Dry	Other	Ridgetop	Decrease	Medium	0.146
Alder	Dry	Other	Ridgetop	Decrease	Large	0.115
Alder	Dry	Other	Ridgetop	None	Small	0.257
Alder	Dry	Other	Ridgetop	None	Medium	0.146
Alder	Dry	Other	Ridgetop	None	Large	0.115
Alder	Dry	Other	Ridgetop	Increase	Small	0.264
Alder	Dry	Other	Ridgetop	Increase	Medium	0.150
Alder	Dry	Other	Ridgetop	Increase	Large	0.118
Alder	Dry	Shallow	Other	Decrease	Small	0.153
Alder	Dry	Shallow	Other	Decrease	Medium	0.087
Alder	Dry	Shallow	Other	Decrease	Large	0.068
Alder	Dry	Shallow	Other	None	Small	0.167
Alder	Dry	Shallow	Other	None	Medium	0.095
Alder	Dry	Shallow	Other	None	Large	0.074
Alder	Dry	Shallow	Other	Increase	Small	0.167
Alder	Dry	Shallow	Other	Increase	Medium	0.095
Alder	Dry	Shallow	Other	Increase	Large	0.074
Alder	Dry	Shallow	Ridgetop	Decrease	Small	0.278
Alder	Dry	Shallow	Ridgetop	Decrease	Medium	0.158
Alder	Dry	Shallow	Ridgetop	Decrease	Large	0.124
Alder	Dry	Shallow	Ridgetop	None	Small	0.278
Alder	Dry	Shallow	Ridgetop	None	Medium	0.158
Alder	Dry	Shallow	Ridgetop	None	Large	0.124
Alder	Dry	Shallow	Ridgetop	Increase	Small	0.278
Alder	Dry	Shallow	Ridgetop	Increase	Medium	0.158
Alder	Dry	Shallow	Ridgetop	Increase	Large	0.124