

DESCRIPTION PURSUANT TO K-C.3.5.7# - INDIVIDUAL TREE DESIGNATION (OPTION 1) (06/2008)

All trees meeting the attached designation description which meet the minimum tree diameter stated in A.2 are designated for cutting. Additional timber to be cut, if any, will be designated for cutting in accordance with C.3.7.

Leave trees, Marked with orange, yellow, or pink paint, or identified by, the description in the attached table, are not to be cut, unless designated by the Forest Service.

A. Designation by Prescription "DxP" of Group Selections (Subdivision 7, 8, 12, 13, 14, 15, 41c, 42, 43, 44, 56c, 57 and 63):

1. Group Selections are to be designated according to the following objectives:

a. Required Leave Trees

- 1) All Grand Fir greater than 29 inches Diameter at Breast Height (DBH);
- 2) All Douglas-fir greater than 24 inches at DBH;
- 3) Other live coniferous species greater than 24 inches at DBH; and
- 4) Other live coniferous species less than 24 inches at DBH if it has a Hawksworth Dwarf Mistletoe Severity Rating of less than 2.

b. Trees Designated for Cutting

- 1) All trees not meeting leave tree requirements in A.1.a. above that are located within the specified radius (See Table 1 below) of a tree posted with a Blue Subdivision Boundary tag with Yellow paint.

c. Use the Universal Transverse Mercator (UTM) coordinate listed in Table 1 below to locate the tree with the Subdivision Boundary tag with Yellow paint and to determine the radius of the Group Selection. The Group Selections need to be approved by the Forest Service before the Subdivision is cut.

d. Boundaries of Group Selections shown on the Contract Area Map (CAM) have **NOT** been designated on the ground by the Forest Service. Designation of boundaries are not required under this prescription, however the Group Selections must be measurable and must meet the requirements listed below:

- 1) All trees with a Blue Subdivision Boundary tag with Yellow paint will not be designated for cutting.
- 2) Any Global Positioning System used for location and/or designations in this prescription must meet the following specifications:
 - a) Receive satellite signals in 3D
 - b) Are set in Zone 10, North American Datum 1983. (NAD83)

Table 1 Group Selection Locations (UTM Coordinates)

Subdivision	Easting	Northing	Radius (feet)
7	618124	5041618	118
8	618264	5041751	118
12	619523	5040747	118
12	619490	5040705	118
13	618676	5040411	118
13	618875	5040462	118
14	619049	5040747	166
14	619168	5040673	166
14	618933	5040698	166
14	618966	5041003	118
15	618892	5040879	166
15	618761	5041001	166
15	619136	5041088	166
41c	619346	5039649	118
41c	619284	5039557	118
42	619174	5039577	118
42	619065	5039501	118
43	619111	5039733	118
43	618956	5039765	118
44	619401	5039746	118

44	619318	5039793	118
44	619387	5039918	118
56c	619776	5039591	118
57	619229	5039913	118
57	619081	5039927	118
63	619094	5040421	118

2. Group Selection Definitions:

a. Hawksworth Dwarf Mistletoe Severity Rating System: Refer to the diagram at the end of this provision

B. Designation by Prescription "DxP" of Skips (Subdivision 7, 8, 12, 13, 14, 15, 41c, 42, 43, 44, 56c, 57 and 63):

1. Skips are to be designated according to the following objectives:

- a. All trees within 25 feet of a tree that has Orange paint above and below stump height are to be left standing. Orange painted trees are to be left standing.
- b. Use the Universal Transverse Mercator (UTM) coordinate listed in Table 2 below to locate the Skip designated with Orange painted trees. Each individual Skip is comprised of multiple Orange painted trees. See Table 2 for the number of Orange painted trees within a skip.
- c. Boundaries of Skips shown on the Contract Area Map (CAM) have **NOT** been designated on the ground by the Forest Service. Designation of boundaries are not required under this prescription, however the Skips must be measurable and must meet the requirements listed below:
 - 1) All trees with Orange paint will not be designated for cutting.
 - 2) Any Global Positioning System used for location and/or designations in this prescription must meet the following specifications:
 - a) Receive satellite signals in 3D
 - b) Are set in Zone 10, North American Datum 1983. (NAD83)

Table 2 Skip Locations (UTM Coordinates)

Subdivision	Easting	Northing	Number of Trees
7	618017	5041725	6
7	618057	5041684	6
7	618105	5041735	6
7	618167	5041695	6
8	618190	5041760	6
12	619346	5040819	16
12	619452	5040694	10
13	618694	5040506	6
13	618751	5040323	6
13	618760	5040374	6
13	618851	5040375	6
14	618705	5040532	6
14	618751	5040624	6
14	618779	5040657	6
14	618824	5040577	6
14	619009	5040605	6
14	619029	5040953	6
14	619125	5040925	6
14	619189	5040946	6
14	619261	5040835	6
15	618768	5040889	6
15	618860	5041197	6
15	618891	5041090	6
15	618953	5041107	6
15	618973	5041201	6
15	619023	5041087	6
15	619030	5041168	6
15	619074	5041303	12
15	619108	5041238	6
15	619136	5041277	6

15	619241	5041088	6
15	619257	5040947	12
41c	619326	5039469	6
41c	619331	5039516	6
41c	619374	5039412	6
41c	619449	5039506	6
42	618979	5039486	6
42	619085	5039609	6
42	619143	5039619	6
42	619260	5039657	6
43	618994	5039846	6
43	619033	5039767	6
43	619195	5039810	6
43	619249	5039746	6
44	619364	5040017	6
44	619385	5040102	6
44	619455	5039798	6
44	619456	5039977	6
44	619458	5040071	6
44	619464	5039856	6
56c	619617	5039701	12
57	619008	5039940	6
57	619026	5040017	6
57	619099	5040026	6
57	619161	5040024	6
57	619243	5039979	6
57	619271	5040032	6
63	619117	5040512	6
63	619126	5040348	6
63	619163	5040462	4

C. Designation by Prescription "DxP" Leave Tree Marking "LTM" (Subdivision 7, 8, 12, 13, 14, 15, 41c, 42, 43, 44, 56c, 57 and 63), as specified in Project 003 in Attachment D:

1. Selection of leave trees within the LTM areas:

- a. Live trees, specified in C.1.b. Below and located within the LTMs shown on the Contract Area Map must be designated as leave trees by the Contractor and approved by the Forest Service before the LTM is cut. All trees not selected as leave trees are designated for cutting.
- b. All trees 24 inches or greater in diameter measured at DBH must be designated as leave trees.
- c. Select remaining leave trees using the spacing in Table 3.

Table 3 Subdivision Average Spacing

Subdivision	Average Spacing Between Leave Trees Within Subdivision (feet)
7	19
8	27
12	19
13	21
14	19
15	20
41c	27
42	21
43	27
44	27
56c	19
57	23
63	19

1) The following prioritized guidelines will be used for tree selection to attain leave trees at the approximate specified spacing.

- a) Trees in C.1.b. above, if present, shall be part of the leave trees chosen at the specified spacing.

b) The largest diameter and healthiest trees in the stand. Where available, leave trees shall be of good form and will not have dead or forked tops, visible signs of insect or disease damage or be heavily infested with dwarf mistletoe. Use the following priority:

- (1) Western Larch
- (2) Ponderosa Pine
- (3) Western White Pine
- (4) Western Red Cedar
- (5) Western Hemlock
- (6) Douglas-fir
- (7) Grand Fir

d. Do not mark to leave any tree less than 24 inches DBH that has a Hawksworth Dwarf Mistletoe Severity Rating of 2 or greater.

2. Tree Marking paint application for LTM's:

- a. Pink tree marking paint shall be provided and applied by the Contractor.
- b. The amount of paint applied should be of sufficient quantity to remain visible on marked trees after this contract has been completed.
- c. Trees shall be marked in such a manner that
 - 1) Paint is visible from all sides, unless within 100 feet of an open road.
 - 2) Painted stump marks cannot be rubbed off if scraped and must be present and identifiable after the timber harvest operations in this contract.
- d. Black paint will be required to delete unacceptable marking. When black paint is used to delete prior work the entire prior stump mark must be covered. Other deleted paint marks shall have black paint applied but the original color need not be totally blacked out.

Designation by Prescription "DxP" Definitions for Sections A, B, and C:

- a. Distances are measured slope distance.
- b. Diameter at breast height (DBH) is measured from the ground on the uphill side of the tree to a height of 4.5 feet.
- c. An **average** tree spacing of the specified spacing in Table 3, plus or minus 50% will be an acceptable range to meet the leave tree spacing for each Subdivision.
- d. Hawksworth Dwarf Mistletoe Severity Rating System: Refer to the diagram at the end of this provision.

Description of Hawksworth Dwarf Mistletoe Severity Rating (DMR) system

Assessing the severity of dwarf mistletoe infection (Fig. 72) within individual trees is accomplished by:

Step 1) Dividing the live crown of the tree into thirds.

Step 2) Rating each crown third separately according to the following scale:

- 0 No visible infections.
- 1 1/2 or fewer of the total number of branches in the third are infected.
- 2 More than 1/2 of the total number of branches in the third are infected.

Step 3) Adding the ratings for each third to obtain a rating for the entire tree.

A tree with an infection on the bole but none on the branches is given a total tree rating of 1. Otherwise, bole infections are not considered in the rating system.

**Douglas-fir dwarf mistletoe should be rated in a slightly different manner: Because the plants are difficult to see (they are often the same length as the needles), severity should be assessed by determining the proportion of crown (rather than the number of infected branches) in each crown third that is in brooms. The numerical system described above is then applied.*

DR

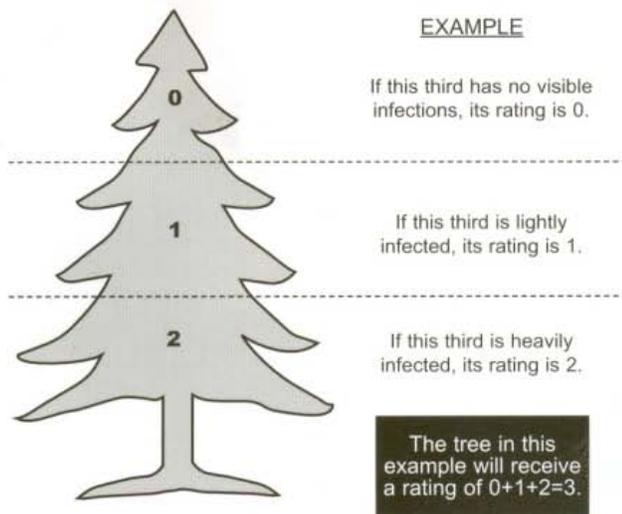


Figure 72 —The 6-Class Hawksworth Dwarf Mistletoe Rating System.