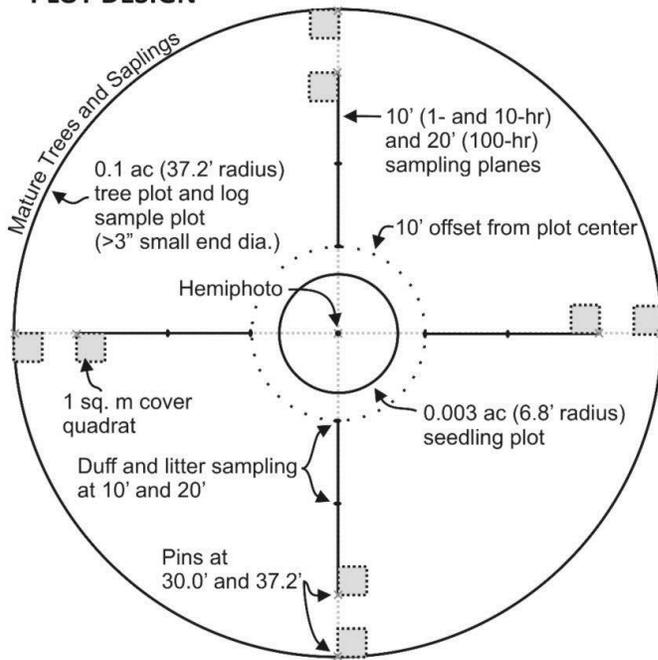


# WEST SIDE PROJECT PLOT DESIGN



## Tree sampling

Overstory (>4" dbh): Plot size = 0.1 ac (37.2' radius)

Attribute	Precision
Species	No error
Status	No error
DBH	+ 0.2"
Height	+ 3'
Crown class	No error
Live crown base height	+ 3'
Snag class	No error
Damage	No Error
Severity	+ one class

## Crown class

- O**—Open grown, or the tree is not near any other tree
- E**—Emergent, or the crown is totally above the canopy of the stand
- D**—Dominant, or the crown receives light from at least 3–4 directions
- C**—Codominant, or the crown receives light from at least 1–2 directions
- I**—Intermediate, or the crown only receives light from the top
- S**—Suppressed, or the crown is entirely shaded and underneath the stand canopy

## Tree status

- H**—Healthy tree with very little biotic or abiotic damage.
- U**—Unhealthy tree with some biotic or abiotic damage, and this damage will reduce growth. However, it appears the tree will fully recover from this damage.
- S**—Sick tree with extensive biotic or abiotic damage and this damage will ultimately cause death within the next 5-10 years.
- D**—Dead tree or snag with no living tissue visible.

## Live crown ratio and crown scorch classes

Code	Live crown percent
0	Zero percent
0.5	>0–percent
3	>1–5 percent
10	>5–15 percent
20	>15–25 percent
30	>25–35 percent
40	>35–45 percent
50	>45–55 percent
60	>55–65 percent
70	>65–75 percent
80	>75–85 percent
90	>85–95 percent
98	>95–100 percent

## Snag code descriptions

Snag code	Limbs	Top of bole	Bark	Sapwood	Other
1	All present	Pointed	100% remains	Intact	Height intact
2	Few limbs	May be broken	Some loss, variable	Some decay	Some loss in height
3	Limb stubs only	Usually broken	Start of sloughing	Some sloughing	Broken top
4	Few or no limb stubs	Always broken some rot	50% or more loss of bark	Sloughing evident	Loss in height always
5	No limbs or limb stubs	Broken and usually rotten	20% bark remaining	Sapwood gone	Decreasing height with rot

Saplings (>4.5' ht <4" dbh): Plot size 0.1 ac (37.2' radius)

Attribute	Precision
Species	No error
Status	No error
Size class	No error

Seedlings (<4.5' ht): Plot size 0.003 ac (6.8' radius)

Attribute	Precision
Species	No error
Status	No error
Size class	No error

Surface and Ground Fuel Sampling

Transect length: 1-hr and 10-hr: 10' 100-hr: 20'

Attribute	Precision
Counts	+ 5 counts
Decay class	+ 1 class
Depth	+ 0.1"

Cover Quadrat Sampling

Quadrat Size: 39" x 39"

Attribute	Precision
Species	No error
Status	No error
Cover	+ 1 class
Height	+ 10%

Code	Cover class
	<i>Percent</i>
0	Zero
0.5	>0-1
3	>1-5
10	>5-15
20	>15-25
30	>25-35
40	>35-45
50	>45-55
60	>55-65
70	>65-75
80	>75-85
90	>85-95
98	>95-100

Sapling classes

Midpoint diameter class			
Class	Diameter range	Class	Diameter range
	<i>inches</i>		<i>cm</i>
0.5	>0-1	1.2	>0-2.5
1.5	>1-2	3.8	>2.5-5
2.5	>2-3	6.2	>5-7.5
3.5	>3-4	8.8	>7.5-10

Seedling classes

Midpoint height class			
Class	Height range	Class	Height range
	<i>ft</i>		<i>m</i>
0.2	>0.0-0.5	0.1	>0.0-0.2
1	>0.5-1.5	0.3	>0.2-0.5
2	>1.5-2.5	0.6	>0.5-0.8
3	>2.5-3.5	0.9	>0.8-1.0
4	>3.5-4.5	1.2	>1.0-1.4

Ground cover codes

Ground cover			
Code	Description	Code	Description
ASH	Ash (organic, from fire)	LICH	Lichen
BAFO	Basal forb	LITT	Litter and duff
BAGR	Basal graminoid	MEGR	Medium gravel (5-20 mm)
BARE	Bare soil (soil particles <2 mm)	MOSS	Moss
BARR	Barren	PAVE	Pavement
BASH	Basal shrub	PEIC	Permanent ice
BATR	Basal tree	PEIS	Permanent ice and snow
BAVE	Basal vegetation	PESN	Permanent snow
BEDR	Bedrock	ROAD	Road
BOUL	Boulders (round and flat)	ROBO	Round boulder (>600 mm)
CHAN	Channers (2-150 mm long)	ROCK	Rock
CHAR	Char	ROST	Round stone (250-600 mm)
CML	Cryptogams, mosses and lichens	STON	Stones (round and flat)
COBB	Cobbles (75-250 mm)	TEPH	Tephra volcanic
COGR	Coarse gravel (20-75 mm)	TRIC	Transient ice
CRYP	Cryptogamic crust	TRIS	Transient ice and snow
DEVP	Developed land	TRSN	Transient snow
FIGR	Fine gravel (2-5 mm)	UNKN	Unknown
FLAG	Flag stones (150-380 mm long)	WATE	Water
FLBO	Flat boulders (>600 mm long)	WOOD	Wood
FLST	Flat stone (380-600 mm long)	X	Not assessed
GRAV	Gravel (2-75 mm)		

Log sampling (>3" dia.)

Attribute	Precision
Diameter (in)	+10%
Length (ft)	+10%
Decay Class	+1 class

Decay class	Description
1	All bark is intact. All but the smallest twigs are present. Old needles probably still present. Hard when kicked.
2	Some bark is missing, as are many of the smaller branches. No old needles still on branches. Hard when kicked.
3	Most of the bark is missing and most of the branches less than 1 inch in diameter also missing. Still hard when kicked.
4	Looks like a class 3 log but the sapwood is rotten. Sounds hollow when kicked and you can probably remove wood from the outside with your boot. Pronounced sagging if suspended for even moderate distances.
5	Entire log is in contact with the ground. Easy to kick apart but most of the piece is above the general level of the adjacent ground. If the central axis of the piece lies in or below the duff layer then it should not be included in the CWD sampling, as these pieces act more like duff than wood when burned.