

ADDITIONAL INFORMATION FOR OFF-GRID PLOTS (WESTERN US)

USDA Forest Service

Plot #: _____

Date: _____

Directions to plot: _____

1. **Location** (use mapping datum NAD 83)

a. Latitude: _____ N

b. Longitude: _____ W

c. UTM Zone: _____

d. UTM Northing: _____

e. UTM Easting: _____

f. Township/Range/1/4 section: _____

g. Map name used to mark plot: _____

2. **Physiography** (use topographic map)

a. Topographic position (circle one): _____

i. Flat or rounded ridgetop or peak >37 m wide

ii. Narrow ridge top or peak <37 m wide

iii. Sidehill, upper 1/3

iv. Sidehill, middle 1/3

v. Sidehill, lower 1/3

vi. Canyon bottom <200 m wide

vii. Bench or terrace

viii. Broad flat 200 m or more wide

ix. Other, describe: _____

b. Slope: _____ %

c. Aspect: _____ degrees

d. Elevation: _____ meters/feet (circle one)

3. **Trees/shrubs**

a. Plant association: _____

b. Largest size class with 8 or more trees (circle one):

i. pole _____ 13-22.9 cm (5-9") DBH

ii. small _____ 23-52.9 cm (9.1-20.9") DBH

iii. med _____ 53-80.9 cm (21-31.9") DBH

iv. large _____ 81-122 cm (32-48") DBH

v. giant _____ >122 cm (>48") DBH

4. **Basal area of hardwoods and conifers** (Use a prism. Record direction walked from plot center to measuring point in degrees. Record the number of 'in' and 'borderline' conifers and hardwoods while turning 360° at each measuring point. Multiply tree number by the prism basal area factor (BAF; us. 5, 10, or 20) to calculate basal area (BA). Exclude shrubs.)

Measuring point	# of conifer trees	# of HWD trees	Prism BAF	BA conifers (ft ² /acre)	BA hardwoods (ft ² /acre)	Remarks
Plot Center						
57' uphill						
57' downhill						
57'sidehill (l)*						
57' sidehill (r)*						

*l= left, r = right when facing uphill at plot center.

5. **Age of oldest tree cohort** (collect tree core samples from 2-3 of the oldest trees, including remnants.)

Tree #	Tree species	DBH (cm)	# of rings in core	Length of core (cm)	Estimated age ([# Rings / Length * DBH] + 5)	Bark thickness
1						
2						
3						

6. **Photographs** (take 1-5 photographs to aid future attempts to relocate the plot)

Photo #	Description
1	
2	
3	
4	
5	

Abundance Values for Community Survey

1 = 1-3

2 = 4-10

3 = 11-40

4.1 = 40-100 individuals scattered evenly

4.2 = 40-100 individuals concentrated on a few trees

Over 100 individuals:

4.3 = "many trees have a few" $< \frac{1}{2}$ plot's trees have < 20 individuals

4.4 = "many trees have a lot" $< \frac{1}{2}$ plot's trees have < 20 individuals

4.5 = "most trees have a few" $\frac{1}{2}$ the plot's trees have < 20 individuals

4.6 = "most trees have a lot" $\frac{1}{2}$ the plot's trees have > 20 individuals

5 = $> \frac{1}{2}$ available substrate is covered

Target Tissue Species (collect up to $\frac{1}{2}$ mile from plot center)

1. Always collect
 - a. *Platismatia glauca*
 - b. *Letharia vulpina*
2. Second choice
 - a. *Evernia prunastri*
 - b. *Hypogymnia enteromorpha/appinata*
 - c. *Hypogymnia inactiva*
 - d. *Hypogymnia imshaugii*
 - e. *Letharia columbiana*
3. Third choice
 - a. *Alectoria sarmentosa*
 - b. *Bryoria fremontii*
4. Worst choice (avoid, unless nothing else available)
 - a. *Usnea spp.*