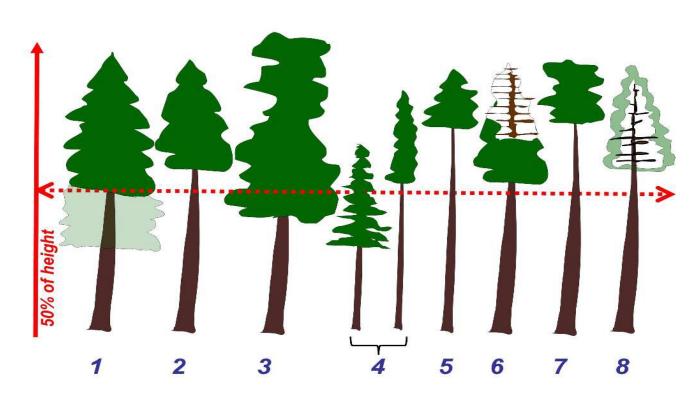
Forest Harvesting/Silviculture Worksheet

Tree Crown Class Vigor Rating



Estimate the % occupancy of dominant overstory tree species in management unit

PP Ponderosa pine DF Douglas-fir LP Lodgepole pine WL Western Larch	Species	% of Management Unit	Average Crown Rating
GF Grand fir ES Engelmann spruce	1		
WRC Western red cedar WH Western hemlock	2		
WP White pine SAF Subalpine fir	3		
PF Limber pine RMJ Rocky mtn. juniper QA Quaking aspen	4		
CW Cottonwood	5		

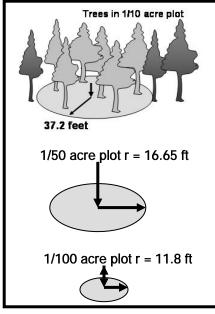
% cover - occupancy of smaller diameter/understory species in management unit **Spacing Species** % of forested area denser than overstory sparse clumpy same denser than overstory same sparse clumpy denser than overstory clumpy same sparse denser than overstory same sparse clumpy

Tree growth rates – using an increment borer and diameter tape fill in the blanks

Large tree averages (based on 3 or more trees sampled per species)

	3	a on e or more trees samp		
Species		Species		
Stem Diameter		Stem Diameter		
4.5 ft above soil		4.5 ft above soil		
Age		Age		
Rings/last 1 inch		Rings/last 1 inch		
Fastest Growth		Fastest Growth		
Rings/inch		Rings/ inch		
Average Growth/las	st inch	Average Growth	n/last inch	
Average Dia	ımeter	Average	Diameter	
	Average Age		Average Age	
Species		Species		
Stem Diameter		Stem Diameter		
4.5 ft above soil		4.5 ft above soil		
Age		Age		
Rings/last 1 inch		Rings/last 1 inch		
Fastest Growth		Fastest Growth		
Rings/inch		Rings/ inch		
I	1.11.	A	Here I Provide	
Average Growth/las	st inch	Average Growth	n/last inch	

Tree Density (For dense forest of mature trees choose smaller plot size that will include 5 to 10 trees)



Average Diameter

Average Age

Spacing (feet)	Trees/acre
3x3	4,840
5x5	1,742
7x7	889
10x10	436
12x12	302
14x14	222
16x16	170
18x18	134
20x20	87
25x25	70
30x30	48
40x40	27

Average Diameter

Average Age

#Seedling/Sapling trees per 1/100 acre plot	x 100 = _		seedlings per acre
# Pole sized trees (5-9" DBH) per (choose plot size) acre plot (# of trees)	X(multiplier)	_ =	poles per acre
# Large diameter trees (>9" DBH) per acre plot (# of trees)	X (multiplier)	=	trees per acre
			2

Site index – (Potential height growth rate) Species_______ Age_____ Height______ Site index (height/age) _______ Species______ Age____ Height_____ Site index (height/age) ______ Species______ Age____ Height_____ Site index (height/age) ______

Predominant stand tree structure (percent of the management unit)

Single canopy layer ______
Two canopy layers (Overstory + seedlings) _____
Three canopy (Overstory + poles, Poles + seedlings)



Seedling Pole Mature Two canopy layer Three canopy layer
Stand Structural Characteristics

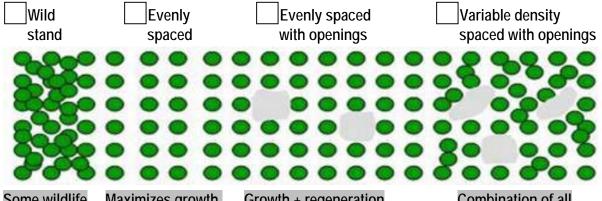
Insect and disease symptoms noted (list species and percent of the trees showing symptoms)			
Bark beetle attack	Mistletoe/branch brooming		
Excessive pitch streaming	_ Visible butt/root decay		
Broken stems/windthrow	Stem galls (western gall rust)		
Soil considerations (circle all that apply) May have a mix of textures	deep (>2 feet) shallow (<2 feet)		
May have a mix of textures			
rocky gravelly fine sandy clay	well drained poorly drained		
Other considerations:			

Desired Future Forest Condition

Desired mature tree species (% of forested area) and **expected longevity** (maximum age you expect trees to reach before they die of natural causes or are harvested)

Species	% of Forested Area	Age to harvest	
1			PP Ponderosa pine DF Douglas-fir
2			LP Lodgepole pine WL Larch
3			GF Grand fir ES Engelmann spruce WRC W. Red cedar
4			WH Western hemlock WP White pine
5			SAF Sub-alpine fir LimP Limber pine
6			RMJ rocky mtn. juniper QA Aspen
Desired species to naturally reger	nerate		
Desired species to plant			

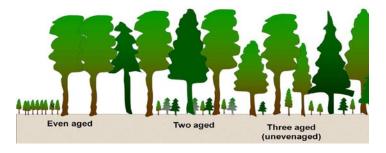
Bird's-eye view of desired forest tree spacing (check one)



Some whalle	waximizes growin	Growin + regeneration	Combination of all

Desired spacing (in feet) Large (>9"DBH)	(ft)
Pole (5-8"DBH) (ft) Seedling(<5"DBH)	(ft)
Size and shape of openings	

Desired structure: (circle)



Tree spacing (ft)	Trees/acre
3x3	4,840
5x5	1,742
7x7	889
10x10	436
12x12	302
14x14	222
16x16	170
18x18	134
20x20	87
25x25	70
30x30	48