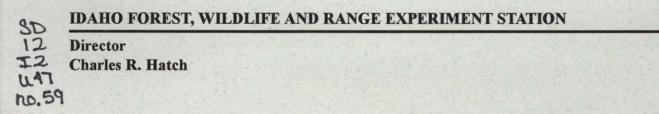


Ronald L. Mahoney, Harold L. Osborne, and Pamela Town



### **Private Forest Ecosystem Management Series:** Bulletin No. 59 Evaluating Private Forest Ecosystems for Silvicultural Prescriptions and Ecosystem Management Planning. Evaluating Wildlife Habitat for Managing Private Forest Ecosystems in the Bulletin No. 60 Inland Northwest. Are Your Streams Healthy? Stream Quality Survey for Managing Private Bulletin No. 61 Forest Ecosystems. Bulletin No. 62 Calculating Timber Removal Costs Under Ecosystem Management. Bulletin No. 63 Contracting for Timber Harvest Under Ecosystem Management. Bulletins are available for \$1.50 each or \$6.00 for the entire series from: Extension Forestry, Rm. 211, College of FWR, University of Idaho, Moscow, ID 83844-1140. Make checks payable to Extension Forestry.

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# Evaluating Private Forest Ecosystems for Silvicultural Prescriptions and Ecosystem Management Planning

Ronald L. Mahoney, Harold L. Osborne, and Pamela Town

Private forest lands in the Pacific Northwest are generally managed to meet objectives specified by the landowner. These objectives may be narrowly focused on the production of specific products such as timber, forage, or commercial recreation. More commonly, landowners objectives are broadly focused on integrated natural resource management that includes a mix of measurable products, and less measurable assets that are often collectively described as aesthetics. Private forest owners increasingly understand that they may control a parcel of land that is just a small part of the larger picture. Therefore, they need to consider the impact of their land management activities within a larger ecosystem or watershed context. Equally important to private landowners is the consideration that external land characteristics and activities can impact their own land. The size and characteristics of any ecosystem under consideration must be delineated and described to fit the objectives and technical capacity of the landowner, while considering the landscape characteristics and impacts beyond the property boundaries. Privately owned forests are less constrained by regulation than public lands, but still must be managed under state and federal laws including forest practices regulations and the Endangered Species Act.

Forest ecosystems are complex and dynamic. Landowners and managers must consider a vast array of information to meet either specific or broad management objectives. The evaluation process guided by this publication can be conducted at several levels, separately or simultaneously, to gather and organize information. The forest unit evaluated can be at the stand (a uniform site supporting homogenous forest vegetation) level, the parcel/ownership level (usually for smaller forest owners), or at the watershed level (often crossing ownerships).

Electronic data collection, analysis, and synthesis give natural resource planners and managers the

ability to measure and quantify current and projected conditions for specific ecosystem components, such as commercial timber, grazing capacity, or snag and cavity tree retention. Many ecosystem components, however, are considered important in forest unit prescriptions or landscape-level ecosystem management planning, yet are measured and recognized in a more subjective, qualitative manner in the prescription and planning processes. For example, we know that internal soil drainage is an important factor in tree survival and growth, and affects stability in strong winds or heavy snows. We lack current research that could relate specific, numerical measures of this variable to tree responses. Consequently, we record soil drainage in general terms as poorly drained, moderately drained, or excessively drained. We then develop management recommendations on that specific factor as it interacts with other factors. In most cases, such a descriptive approach is very useful and adequate for most land management purposes, and makes wide application of informed forest management feasible.

Most forest ecosystem components are inventoried by visual observations and recorded in categories on the form provided in this publication. Successful silvicultural prescriptions and ecosystem management planning for private forests will usually require the involvement of a qualified natural resource professional. Professional land managers can interpret these forest ecosystem conditions and select management practices which meet the objectives of the landowner, satisfy regulatory requirements, and consider landscape-level ecosystem impacts. This publication provides a form and format that is designed for use by foresters and other natural resource professionals in the Pacific Northwest. Although the information level is designed for field evaluation by professionals, landowners and others with training and experience can complete much or all of the field evaluation, but

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may still need professional assistance to interpret the information and develop management plans. The best land management will involve a partnership of the landowner with appropriate professional assistance. A related publication that provides a format and process for this coached-planning approach, titled *"Forest Stewardship Planning Workbook--An Ecosystem Approach to Managing Your Forestland"* (PNW 490), has been developed by Washington State University and is available from Extension Offices in the Pacific Northwest. That publication provides excellent background information on the concept of ecosystem management for private landowners, and on the planning process.

In addition to this forest inventory, landowners who have a strong interest in wildlife habitat management should also complete the form provided in "Evaluating Wildlife Habitat for Managing Private Forest Ecosystems in the Inland Northwest" (FWR Station Bulletin No. 60). Additional inventory of stream environments on private forest lands is available through "Are Your Streams Healthy? Stream Quality Survey for Managing Private Forest Ecosystems" (FWR Station Bulletin No. 61).

These publications provide the forms and format to help landowners and professionals consider many factors of the forest environment in the management planning process. The completed inventories should

become part of the permanent record for the land, and can be the basis for developing and writing plans for management practices that will meet landowner objectives. These evaluations should also show which forest situations require additional examination by a specialist in road engineering, forest harvesting, vegetation or soils management, forage, fire ecology, forest health, forest nutrition, wildlife habitat, water quality, or other ecosystem components. The costs and contracts associated with new and sometimes more complex harvest systems directed at meeting ecosystem goals are presented in two additional, related publications titled "Calculating Timber Removal Costs Under Ecosystem Management" (FWR Station Bulletin No. 62), and "Contracting for Timber Harvest Under Ecosystem Management" (FWR Station Bulletin No. 63).

These field evaluations are not intended to reduce writing prescriptions and planning ecosystem management to a series of mechanical steps, but rather are designed to ensure that many influencing factors are considered during the first forest examination. In addition, the information provided through the evaluation process should help refresh the memory of a resource manager who may write or review a prescription or plan at some future time after the field examination, and will serve as a record for subsequent landowners and managers.



## Itemized Explanation of Forest Unit Evaluation Form

NOTE: This section explains each step on the field form that follows. We recommend reading through this section and the field form prior to field use. The observer should use this section as a reference as needed. Once the user is familiar with the form, they may not need this section. The field form is located at the end of the publication to make it easier to photocopy for additional inventories.

- 1. Name of field observer(s).
- 2. Date of evaluation.
- 3. Give the owners' name(s). Identify the unit to be evaluated and its boundaries (i.e. fence, stream, ridge, painted, flagged, etc.); the unit may be based on total ownership, a forest stand, or on a watershed-level ecosystem.
- 4. Legal description of the property location (i.e. NW 1/4, SE 1/2, Sec 9 T41N R3W BM.). Also provide the name of the nearest town, and the county and state.

The following questions may be answered using aerial photography, topographical maps, and soil and vegetation surveys, then verified in the field.

- 5. Map names and numbers (include both aerial photos and topographical maps).
- 6. Size of unit.
- 7. Elevation (include the minimum, maximum, and average elevation).
- 8. Estimate the localized landform in terms of landscape contour and percent slope.
- 9. Record the overall aspect of the slope (if variable indicate dominant aspects).
- 10. Record the dominant soil types using a USDA soil survey book. Identify the type of bedrock, and surficial deposits if present. Many Pacific Northwest soils are underlain by granite or basalt, for example, and overlain by loess or alluvium.
- 11. Record the habitat type(s) if available from soil survey or other published work. Be sure to field verify and recognize significant areas of difference.
- 12. Record the indicators of past fires (charred stumps, charcoal, fire scars, etc.), and estimate when fire(s) happened. Record fuel size classes as large, medium, or small for each fuel load class. [Heavy fuel loads comprise a continuous cover of all fuel sizes over most of the stand. Moderate fuel loads either lack continuity or a full range of fuel sizes. Light fuel loads primarily contain fine fuels with only patchy residues of large and medium fuels. Large fuels are those greater than 4 inches in diameter. Medium fuels include branches and other woody material 1-4 inches in diameter. Fine fuels include duff, litter, grasses and other non-woody fuels, and twigs and branches up to 1 inch in diameter].
- 13. Record the type and condition of access to and within the inventoried unit. Also include the type of access to and within the surrounding landscape (may include neighbors' property). Indicate the amount of traffic on each type of road/trail (heavy, moderate, or light use). Describe any constraints on new or redesigned roads.
- 14. Record the current dominant land uses of the inventoried unit and surrounding landscape (may include neighbors' property). Rank each use as primary, secondary, tertiary, etc).

15. Sketch a map of the surrounding landscape and the location of the inventoried unit. Show the scale and orientation of the map. Indicate landmarks and land uses such as roads, permanent water sources, agricultural lands, cover types, or buildings.

The following questions require field verification and are most meaningful when applied to a specific forest stand or other homogenous unit.

- 16. Record the topographical position relative to local topography.
- 17. Estimate the air drainage conditions using topography as the main criteria.
- **18.** Record the successional stage(s).
- 19. Record the forest canopy structure(s).
- 20. Indicate "none" if not cruised for tree data. If cruised or visually estimated, record observers, date cruised, plot size and type, and number of plots. List basic data, summarized by species, of trees/acre, basal area/acre, range of diameters, and volume/acre from the cruise or ocular estimate.
- 21. Estimate the level of current and historic foraging (grazing and browsing). [Severe foraging includes a majority of the unit having soil displacement and compaction, erosion of heavily used trails, bare soil areas, and browsing past current year's growth. Heavy foraging includes a patchy distribution of otherwise severe foraging conditions, or overall less deteriorating soil and vegetation conditions. Moderate foraging includes sites where the forage resource is fully utilized with little apparent degradation of the site. Light foraging occurs in units infrequently utilized for a short period of time with little impact on soils or vegetation]. Indicate the animal(s) foraging or record the common name of other domestic or wild animals.
- 22. Identify any water sources and indicate whether they are temporary or permanent. Record if protected or unprotected, and the method of any protection.
- 23. Estimate the average thickness of the duff layer. Estimate the average size, range of sizes, and number of down logs per acre.
- 24. Estimate the ground vegetation density, distribution, and list the dominant species. Ground vegetation includes all non-woody plants (ferns, forbs, grasses).
- 25. Estimate the shrub density, distribution, and list the dominant species. Shrub vegetation includes woody shrubs and seedlings less than 5 feet tall.
- 26. Estimate the subcanopy density, distribution, and list the dominant species. Sub-canopy includes tall shrubs (i.e. Rocky Mountain maple, alders), and tree saplings.
- 27. Estimate the percent canopy cover, distribution, and list the dominant species. Canopy cover includes the overstory trees.
- 28. Record the appropriate soil conditions using a soil probe, auger, clean profile of a roadcut, or gully to estimate soil material and depth characteristics. Visual observation and general knowledge of the potential response of local soils to disturbance are required to estimate the various soil characteristics. Use this information to verify and modify information recorded earlier from the soil survey (item # 10).
- 29. Record the timber harvest history, including commercial and precommercial entries, year of harvest, silvicultural treatment, species cut, and logging method.
- 30. Record any past site preparation methods, and chemical products if used.
- 31. Record historic planting information.

- 32. Indicate the condition codes of all tree species in the unit by size-class. Indicate P after the code to show potential conditions. Indicate the extent of the existing condition by placing H (*heavy*=>50%), M (*medium*=25-50%), or L (*light*=<25%) after the code. Indicate the seed source potential after code 27.</p>
- 33. Describe the distance to and general location of any watershed/ecosystem constraints to the use and management of the specific unit being evaluated, within or outside the ownership.
- 34. Describe how the unit contributes to the larger ecosystem.
- 35. Estimate and record the amount of time that can elapse prior to developing and implementing a prescription. This will mainly depend on anticipated changes in the unit which would require a change in prescription. For example, incipient insect outbreak, rapid loss of vigor due to competition, or loss of stand volume to disease may require that a prescription be developed and implemented as soon as possible (ASAP). A unit that would not benefit from a thinning, but will be more economically valuable given another 20 years of growth, may be delayed for harvest/regeneration or other management prescription.
- **36.** List any additional unit evaluation by a specialist (i.e. wildlife biologist, hydrologist, harvest engineer, etc.) and state why you believe such an evaluation is needed.
- 37. Describe the forest structure, ecological stability, ecosystem/watershed conditions, constraints, and opportunities. Prescribe actions, giving goals and reasons as indicated.

## Forest Unit Evaluation Form for Silvicultural Prescriptions and Ecosystem Management Planning

•	Observer(s):	2. Date	e:	1232 239	and the second	
	Unit Identification: Owners' Name(s):		gal fort			
	Unit Description:					
	Property Legal Description:	Sec.	Т	R	М	
	Nearest Town Coun		All and a second	and the second		
		Topographica				
	Size (acres):	ropographic	in in in in pos			
•				1 Barline		
•	Elevation: Min.: Ft Max.:]	Ft Avera	ge:	- <sup>Ft</sup>		
	Slope Conformation: Concave Convex	Uniform	_ Flat	_ Rolling_	and a start	
	Slope Average% Varies from	% to	%			
	Aspect: Varies from to					
).						
	Soil Type(s):					
1.	Habitat Type(s):					
1.	Habitat Type(s):			23-28		
		rmation is note		23-28		
	NOTE: More specific soils and vegetation infor Fire: No Yes (Evidence):	rmation is note		23-28		
	NOTE: More specific soils and vegetation infor Fire: No Yes (Evidence): Year(s):	rmation is note		23-28		
	NOTE: More specific soils and vegetation infor         Fire: NoYes (Evidence):         Year(s):         Fuel Size Class       Fuel Load Class	rmation is note		23-28		
	NOTE: More specific soils and vegetation infor         Fire: NoYes (Evidence):         Year(s):         Fuel Size Class       Fuel Load Class         Large       HeavyModerateI	rmation is note		23-28		
	NOTE: More specific soils and vegetation infor         Fire: NoYes (Evidence):Year(s):         Year(s):         Fuel Size Class       Fuel Load Class         Large       HeavyModerateI         Medium       HeavyModerateI	rmation is note		23-28		
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2.	NOTE: More specific soils and vegetation infor         Fire: NoYes (Evidence):Year(s):         Year(s):         Fuel Size Class       Fuel Load Class         Large       HeavyModerateI         Medium       HeavyModerateI         Small       HeavyModerateI         Accessibility of Inventoried Unit and Surroundit	rmation is note	ed in items	23-28		
2.	NOTE: More specific soils and vegetation infor         Fire: NoYes (Evidence):         Year(s):         Fuel Size Class       Fuel Load Class         Large       HeavyModerateI         Medium       HeavyModerateI         Small       HeavyModerateI	rmation is note	ed in items	23-28		
1. 2. 3.	NOTE: More specific soils and vegetation infor         Fire: NoYes (Evidence):Year(s):         Year(s):         Fuel Size Class       Fuel Load Class         Large       HeavyModerateI         Medium       HeavyModerateI         Small       HeavyModerateI         Accessibility of Inventoried Unit and Surroundit       Condition Codes: Excellent(E) Good(G) Fair(F         Inventoried Surrounding       Surrounding	rmation is note Light Light Light ing Landscape: 7) Poor(P)	ed in items			
2.	NOTE: More specific soils and vegetation infor         Fire: NoYes (Evidence):         Year(s):         Fuel Size Class       Fuel Load Class         Large       HeavyModerateI         Medium       HeavyModerateI         Small       HeavyModerateI         Accessibility of Inventoried Unit and Surroundit         Condition Codes: Excellent(E)       Good(G)         Inventoried Surrounding       Accessibility	rmation is note	ed in items	toried, S =		
2.	NOTE: More specific soils and vegetation infor         Fire: NoYes (Evidence):      Year(s):         Year(s):      Year(s):         Fuel Size Class       Fuel Load Class         Large       HeavyModerateI         Medium       HeavyModerateI         Small       HeavyModerateI         Accessibility of Inventoried Unit and Surroundit       Condition Codes: Excellent(E) Good(G) Fair(F         Inventoried Surrounding       Main Road (1st Class)	rmation is note	ed in items	toried, S = derate	Light	
2.	NOTE: More specific soils and vegetation infor         Fire: NoYes (Evidence):      Year(s):         Year(s):      Year(s):         Fuel Size Class       Fuel Load Class         Large       HeavyModerateI         Medium       HeavyModerateI         Small       HeavyModerateI         Accessibility of Inventoried Unit and Surroundit       Condition Codes: Excellent(E) Good(G) Fair(F         Inventoried Surrounding       Main Road (1st Class)          Main Road (2nd Class)	rmation is note	<i>(I = Inven</i> <i>(I = Mo</i> <i>Mo</i>	<i>toried, S</i> = derate derate	Light Light	
2.	NOTE: More specific soils and vegetation infor         Fire: NoYes (Evidence):         Year(s):         Fuel Size Class         Fuel Moderate         Iarge         Heavy         Moderate         Medium         Heavy         Moderate         Ismall         Heavy         Good(G) Fair(F         Inventoried	rmation is note	(I = Inven (I = Inven (I = Mo (I = Mo	<i>toried, S</i> = derate derate derate	Light Light Light	
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14. Current Land Use of Inventoried Unit and Surrounding Area (1=Primary, 2=Secondary, etc.):

Inventoried Unit	Surrounding Area	Land Use
		Timber Production
1		Recreation - Foot Traffic
and the second	A STREET	Recreation - Vehicle Traffic
	1991 - 1997 - 1999 -	Wildlife Management
Contraction of the second		Agriculture - Crops
12 10 11		Agriculture - Idle (Fallow, CRP, etc.)
and the second second		Grazing
	A Contraction of the	Aesthetics
A CONTRACT		Residential and Urbanization
		No Active Management
		Other:

15. Sketch Map of Landscape Use and Unit Location (Show scale i.e. 1" = 500' and indicate direction with a North (N) arrow):

16.	Topographical Position	on: Low Flat Stream	Bottom
	Lower Slope Mi	ddle Slope Upper Slope	Narrow Ridge
	Broad Ridge Sad	dleOther	
17.	Air Drainage: Severe	(Windy) Good Fair	Poor/Frost Pocket
18.	Successional Stage(s):	Grass-Forbs Sapling/Pole	Mature
		Shrub/Seedling Young	_ Old Growth
19.	Forest Structure(s):	Uneven-Aged (Multi-Storied)	Even-Aged (1-Story)
		Even-Aged (2-Story) Plan	tation Other:

9

### 20. Tree Inventory (Cruise): None: Yes: Estimated:

Observers: \_\_\_\_\_ Date: \_\_\_\_\_

Plot Size/Type:

	STAND TABLE							
Species	Trees\Acre	Basal Area/Acre	Range of DBH	Volume/Acre	Age Range			
					and the second second			
(1) 年前, 15年1					and the second			
States and	A Starting							
	and the second							

	Intensity: Severe Heavy	A. 912 4 15 13	and the second	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	and the second			
	Animal: Cattle Sheep	Horses	Big (	Game	Other			
2.	Type of Water Source:	Lake	Pond	_ Spring_	Stream	River		
		Other: _		<u></u>				
	Class of Water Source: Unprotected Protected							
	Describe Protection:							
	Duff Layer: Duff Thickne	essInch	es					
3.								
3.	Down Logs: #/Acre: Av	verage Diamo	eter:	Inches				

 24.
 Ground Vegetation - Ferns, Grasses, Forbs:

 Density:
 Heavy (>90%)
 Moderate (50%-90%)

 Light (<50%)</td>
 None
 (skip to #25)

Distribution: Consistent Patchy

Dominant Ground Vegetation Species:

25.	Shrub Vegeta	tion - Woody Shrubs and Seedlings:
	Density:	Heavy (>50%) Moderate (25-50%)
		Light (<25%) None (skip to #26)
	Distribution:	Consistent Patchy Patchy
	Dominant Shru	ib Species:
26.	Sub-Canopy -	Tall Shrubs and Saplings:
	Density:	Heavy (>50%) Moderate (25-50%)
		Light (<25%) None (skip to #27)
	Distribution:	Consistent Patchy
	Dominant Sub	-Canopy Species:
27.	Canopy Cover	- Overstory Trees:
		>75% 50-75% 25-50%
		<25% None (skip to #28)
	Distribution:	Consistent Patchy
	Dominant Tree	
28.	Soils:	
	% Bare Soil	Parent Material(s)
		(>3') Moderate (1 - 3') Shallow (<1')
		age-Resistant Layer: Volcanic Ash Depth:
		ate P for Potential, C for Current):
		ght Moderate Severe
		ndicate P for Potential, C for Current):
		ight Moderate Severe
		ning Capacity: Poor Moderate Excessive
	Texture:	
	Texture:	Gravel/Rocks Sandy Loam Ash Cap Silty/Loam

29.	Cutting H	listory: None Yes	: 21		
	Date	Silvicultural Treatment	Species Cut	Method	

30.	Site Preparation (Indicate Year by each Method/Product Used):						
	None Mechanical Broadcast Burn Pile and Burn						
	Chemical: Spot Broadcast						
	Machinery/Chemicals Used and Time of Year:						
	General Description of Site Preparation Methods and Effectiveness						

31.	Planted	? No	Yes:				
	Year	Species	Stock Type	No./Acre	Seed Source	Planting Tool	Nursery

32. Tree Conditions: Place the appropriate condition codes in each species/size class block represented in the stand (Indicate P after code if there is a potential condition; H if > 50% affected, M if 25-50%, L if < 25%).

- 0 Healthy
- 1 Mountain Pine Beetle
- 2 Fir-Engraver Beetle
- 3 Ips Beetle
- 4 Other Bark Beetles
- 5 Shoot Borers
- 6 Defoliators
- 7 Other Insects
- 8 Root Rot
- 9 Stem Rot
- 10 Mistletoe
- 11 Needle Disease
- 12 Fire
- 13 Livestock
- 14 Big Game

- 15 Porcupine
- 16 Rodents
- 17 Other Animals
- 18 Chemical
- 19 Weather (Windthrow, Snowbreak, Hail)
- 20 Suppression
- 21 Logging (Mechanical Damage)
- 22 Old Age
- 23 Unknown
- 24 Poor Form
- 25 Sound Snag: #/Acre and Avg. Size
- 26 Rotted Snag: #/Acre and Avg. Size
- 27 Seed Source Potential:
- E=Excellent, G=Good, F=Fair, P=Poor

Species	Reprod <1"	Sapling 1" - 6"	Pole 6" - 12"	Sawtimber 12" - 24"	Peeler >24"	Seed Source Potential
				27 36 6		
		Same Section		No. 1 State	and the second	a starte
al an	A States and					
The star		and the second second		State of the second	Seats in Land	1. 1. 1. 1.
1.2.2	11.0	13	4.714 A.V.3	1. 1. 1. 1.	A LEAD V	117.5
	And the second					Carlos S.
and star		10.19 a 14 a	4 44		Sec. Ca	
	19 St 12		State States	1. A. S. S.	See Same	
and the	Second Sec				Co. Row and	
1	States in		1	a start and start		

33. Watershed/Ecosystem Constraints (Describe the Type, Location and Impacts):

34. Unit Contributions to Watershed/Ecosystem (Diversity, Habitat, Water Quality, Threatened/Endangered Species, Soil Conservation, etc.):

35. Urgency to Develop and Implement a Prescription:

ASAP \_\_\_\_ By 5 Years \_\_\_\_ By 10 Years \_\_\_\_ Delay to \_\_\_\_\_

Why?

### 36. Recommended Additional Forest Ecosystem Evaluation:

Specialty:

Why?

#### 37. Narrative Evaluation and Prescription:

This is a description of owner's objectives, a summary of unit conditions, structure, miscellaneous observations, and a prescription for silvicultural practices to achieve objectives. List objectives, indicate structure of unit, whether patchy, homogeneous, single-story, double-story, history, evidence of release, pathogens, limiting factors, etc. Estimate unit stability and utilization of site potential. Describe ecosystem/watershed conditions, indicating what was considered and why. Briefly describe the timing and nature of prescribed activities, the target stand, and future options. (Use additional sheet if needed.)

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