Record of Decision
for
Upper Charley Subwatershed
Ecosystem Restoration Projects
(Forest Plan Amendment for Canada Lynx)
and
Finding of Non-Significant Amendment

USDA Forest Service
Umatilla National Forest
Pomeroy Ranger District
Garfield County, Washington

Sections 11-14, 22-28, and 33-36, of T.9N., R.42E.; Sections 8, 17-19, and 30, of T.9N., R.43E.; and Sections 3 and 4 of T.8N., R.42E., Willamette Meridian.

Background

The following narrative describes a series of events that have led up to this record of decision for the Upper Charley project. A clear understanding of this history will help place this decision into context with documents and events that preceded this decision.

Upper Charley Subwatershed Ecosystem Restoration Projects began August of 1998 when project information letters were mailed to interested parties and a notice to prepare and EIS was listed in the Federal Register. Availability of a Final Environmental Impact Statement (FEIS) and Record of Decision (ROD) was listed in the Federal Register on May 10, 2002 (Vol. 678 No.91 Page 31801). The decision was appealed. On August 29, 2002 the decision was affirmed by the Appeal Deciding Officer and found consistent with applicable laws, regulations, policies and the Forest Plan.

On May 21, 2003 (amended October 2, 2003) Oregon Natural Resources Council Fund (ONRC) filed in the United States District Court of Oregon, Civil No: 03-682-KI, a Complaint for Declaratory and Injunctive Relief against Linda Goodman, Regional Forester, Pacific Northwest Region; and United States Forest Service. ONRC claims “The Forest Service has thereby altered
the standards and guidelines of the Umatilla Forest Plan with respect to lynx and lynx habitat without amending or revising the Plan, and without public notice, in violation of NFMA” (First Amended Complaint for Declaratory and Injunctive Relief, Paragraph 87, Civil No: 03-682-KI).

This lawsuit was stayed while the Forest Service reviewed lynx information in the Upper Charley area, including the issues raised by the First Amended Complaint, and by the decision in a case concerning timber projects on the Wallowa Whitman National Forest, ONRC v. Forsgren, 252 F. Supp. 2d 1088 (D. Or. 2003) (holding in part that a Forest Plan amendment is required before utilizing the lynx conservation Assessment Strategy.).

The Forest Supervisor decided to amend the Forest Plan and prepare a draft supplemental environmental impact statement. The DSEIS was listed in the Federal Register on July 8, 2005 (Vol. 70 No.130 Page 39508) for a 45-day comment period. The supplemental statement documents the environmental effects of adopting a Forest Plan amendment for Canada lynx in support of the May 2002 Upper Charley Subwatershed Ecosystem Restoration Projects FEIS and ROD.

The FSEIS and this record of decision tier to and reference the 2002 FEIS and ROD. The two environmental impact statement documents, therefore, must be thought of and used together as if they are one statement. This record of decision supports and complements the record of decision listed in the Federal Register on May 10, 2002. This record of decision does not change the record of decision listed in the Federal Register on May 10, 2002.

The decision to be made with this record of decision is whether or not the Forest Supervisor should amend Umatilla Land and Resource Management Plan (Forest Plan) and incorporate management direction (objectives, standards, and guidelines) for Canada Lynx, only for the site-specific project called Upper Charley Subwatershed Ecosystem Restoration Projects. This record of decision documents that choice.

Paper copies of Upper Charley Subwatershed Ecosystem Projects FEIS, 2002 ROD, Final Supplemental EIS, and this record of decision are available upon request by contacting Terri Jeffreys at Pomeroy Ranger District. These documents may be viewed or downloaded from the following Internet site http://www.fs.fed.us/r6/uma/projects/readroom/.

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After careful review of public comments, and the analysis disclosed in the FEIS, FSEIS, and project file, I have decided to amend the Umatilla Forest Plan to incorporate management direction (objectives, standards, and guidelines) for Canada Lynx, only for the site-specific project called Upper Charley Subwatershed Ecosystem Restoration Projects. Attachment 1 of this decision lists the objectives, standards, and guidelines that are amended into the Forest Plan.

Other than to amend the Forest Plan, this decision supports the decision made in, but does not change any other aspect of, Upper Charley Subwatershed Ecosystem Restoration Projects Record of Decision listed in the Federal Register on May 10, 2002.
**Reasons for the Decision**

I carefully considered concerns raised during scoping and comment periods to help make my decision (FEIS and ROD, FSEIS). I considered no action and a Forest Plan amendment for Canada lynx. My reasons for not analyzing two alternatives in detail are disclosed in the FSEIS, Chapter II. The following narrative presents why I did not select no action, and describes how I considered and addressed the purpose and need, the Canada lynx issue, and other resource concerns in making my decision.

**Reasons for Not Selecting No Action**

I carefully weighed the potential outcome to this area if I had selected no action. I did not select the no action alternative because it does not address the purpose and need relative to Canada lynx, and would not have provided Forest Plan management direction for Canada lynx within Upper Charley project area. No action would have also resulted in dropping a number of activities that advance and would complete the overall purpose and need in Upper Charley Subwatershed Ecosystem Restoration Projects (FEIS, Chapters I and II).

**Purpose and Need**

I believe my decision affirmatively addresses and fulfills the purpose of and need for action and this decision and amendment will allow the remainder of the Upper Charley project in Canada lynx habitat to continue.

**Canada lynx Issue**

The FSEIS documents with public notice the direct, indirect, and cumulative effects to Canada lynx and lynx habitat. This decision documents with public notice the amendment of the Umatilla Forest Plan with management direction for Canada lynx and lynx habitat. The amendment is consistent with NFMA, ESA, and NEPA procedures. All cumulative effects disclosed are consistent with amended Forest Plan standards and guidelines for Canada lynx (FSEIS, Chapter IV). Based on effects disclosed in the FSEIS and 2002 FEIS, my decision to amend the Forest Plan will lead to the conservation of Canada lynx habitat (Ruediger et al. 2000).

Several environmental groups were concerned that timber harvest and burning activities in Upper Charley project, within the Asotin LAU, could change lynx foraging and denning habitat into unsuitable habitat. I carefully looked at the trade-off between reducing suitable lynx habitat with proposed activities and benefits from the activities.

The Blue Mountains are considered dispersal habitat (FSEIS, Chapter III, pages 2-4) and there are no resident populations, so impacts to individual lynx are unlikely. The harvest and burning of vegetation within lynx habitat would reduce one percent of the suitable habitat within the Asotin LAU causing a cumulative total of 21 percent unsuitable. The expected unsuitable habitat condition is well within the standard of 30 percent unsuitable and a two percent
cumulative conversion to unsuitable habitat within the ten year period beginning in 2000; this is also consistent with the Forest Plan as amended.

Analysis of impacts to lynx habitat indicates implementation of the 2002 decision will result in a may affect but not likely adversely affect determination for Canada lynx. I decided that the long-term benefits from activities in lynx habitat out-weigh the short-term reduction in suitable habitat (FSEIS, Chapter IV, pages 2-9).

Amending the Umatilla National Forest Plan to incorporate management direction for Canada lynx habitat will have no measurable effect or change to implementing activities for the site-specific project called Upper Charley Subwatershed Ecosystem Restoration Projects, and therefore will not require re-initiation of consultation.

### Public Involvement

The Forest Service sought information, comments, and assistance from Federal, State, local Tribes, local agencies, and from other groups and individuals interested in or affected by the proposed action. The Forest’s *Schedule of Proposed Activities* was updated quarterly to inform the public of changes in project status starting with the winter 1998 SOPA.

<table>
<thead>
<tr>
<th>Date</th>
<th>Action</th>
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<tbody>
<tr>
<td>August 24, 1998</td>
<td>Project Information letters mailed to interested parties (158 letters)</td>
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<tr>
<td>September 29, 1998</td>
<td>District Open House to discuss project</td>
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<tr>
<td>March 23, 1999</td>
<td>Meeting with Nez Perce Tribal Representatives</td>
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<tr>
<td>April 13, 2000</td>
<td>Letters mailed to interested parties for notification of DEIS</td>
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<tr>
<td>April 21, 2000</td>
<td><em>Federal Register</em>: Notice of Availability of DEIS</td>
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<tr>
<td>April 27, 2000</td>
<td>Legal notice in <em>East Oregonian</em> to request comments</td>
</tr>
<tr>
<td>June 1, 2000</td>
<td>Meeting with Washington State Fish and Wildlife Department</td>
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<tr>
<td>June 2, 2000</td>
<td>Meeting with Forest Watch Group</td>
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<tr>
<td>June 12, 2000</td>
<td>Comment Period ended (10 responses received)</td>
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<tr>
<td>April 5, 2002</td>
<td>Mailed FEIS and ROD and notification letters to stakeholders and federal agencies</td>
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<tr>
<td>April 8, 2002</td>
<td>Legal notice in <em>East Oregonian</em> appeal period ends May 30, 2002</td>
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<tr>
<td>April 23, 2002</td>
<td>Cancellation of legal notice issued on April 8, 2002 – one comment letter not included with FEIS and ROD</td>
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<tr>
<td>April 26, 2002</td>
<td>Letter to stakeholders announcing cancellation and reason why</td>
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<tr>
<td>May 9, 2002</td>
<td>Legal notice in <em>East Oregonian</em> appeal period ends June 23, 2002</td>
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<tr>
<td>May 10, 2002</td>
<td><em>Federal Register</em> Notice of Availability for FEIS and ROD</td>
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<tr>
<td>June 23, 2002</td>
<td>Appeal period ends (2 responses received)</td>
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<tr>
<td>August 29, 2002</td>
<td>Acting Deputy Regional Forester, Richard Sowa, determined since the appeal review was not completed within regional timeframe the Responsible Official's ROD was the final determination of the USDA and not subject to further administrative review (36 CFR 215.13 (f) (3) and 215.17(b).</td>
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### Alternatives Considered

The 2002 FEIS considered in detail five alternatives, including no action. Two other alternatives were considered but not analyzed in detail. All alternatives are described in detail in Chapter II of the 2002 FEIS and are summarized in the May 2002 record of decision.

The FSEIS considered in detail, no action and a Forest Plan amendment for Canada Lynx that would apply only to the site-specific project called Upper Charley Subwatershed Ecosystem Restoration Projects. Appendix C of the FSEIS provided a detailed listing of the objectives, standards, and guidelines for this amendment. Two alternative approaches to amend the Forest Plan related to Canada lynx were considered but not analyzed in detail (FSEIS, Chapter II).

### Findings Required by Other Laws

**National Forest Management Act**

The Record of Decision (ROD) for Upper Charley Subwatershed Ecosystem Restoration Projects listed in the Federal Register on May 10, 2002 documented consistency with the National Forest Management Act (2002 ROD, page 25). This decision to amend the Forest Plan for the Upper Charley project does not change the 2002 findings. This decision is also consistent with the National Forest Management Act. A detailed discussion of NFMA compliance is included in Chapter IV of the FEIS as supplemented.

The Record of Decision (ROD) for Upper Charley Subwatershed Ecosystem Restoration Projects listed in the Federal Register on May 10, 2002 documented consistency with the *Umatilla National Forest Land and Resource Management Plan Final Environmental Impact Statement, Record of Decision*, the accompanying *Land and Resource Management Plan*, as amended, (USDA Forest Service 1990), dated June 11, 1990 (FEIS, pages IV 63-65 and FSEIS pages IV 9-11, 2002 ROD 25-28). This decision to amend the Forest Plan for the Upper Charley project does not change the 2002 findings. This decision is also consistent with the Forest Plan as amended (FSEIS, Chapter IV).
Finding of Non-Significant Amendment

The Forest Service Land and Resource Management Planning Handbook (Forest Service Handbook 1909.12) lists four factors to be used when determining whether a proposed change to a Forest Plan is significant or not significant: timing; location and size; goals, objectives and outputs; and management prescriptions.

**Timing:** The timing factor examines at what point over the course of the Forest Plan period the plan is amended. Both the age of the underlying document and the duration of the amendment are relevant considerations. The handbook indicates that the later in the time period, the less significant the change is likely to be. As noted in the FSEIS (pages I-2, I-4, II-2 and Appendix C-1), the action is limited in time in that it would only apply for the duration of the Upper Charley Subwatershed Ecosystem Restoration Projects. The Record of Decision for the Umatilla Forest Plan was signed June 11, 1990, so we are in year 15 of 15.

**Location and Size:** The key to location and size is context, or the relationship of the affected area to the overall planning area. “[T]he smaller the area affected, the less likely the change is to be a significant change in the Forest Plan.” The planning area for the Umatilla National Forest is about 1.4 million acres (Forest Plan, page 1-4). The management direction in the amendment applies only to lynx habitat and only for the duration of the Upper Charley project. The Upper Charley project is within the Asotin lynx analysis unit (LAU). There are about 41,446 acres of lynx habitat with in the Asotin LAU. Of that about 1,091 acres of lynx habitat are affected by the Upper Charley project; which is less than 3 percent of the total lynx habitat within the LAU. This amount is less than 0.08 percent of the Forest Planning area (1.4 million acres). Thus, the size of the area affected by the project and amendment is small when compared to the overall planning area.

**Goals, Objectives, and Outputs:** The goals, objectives, and outputs factor involves the determination of "whether the change alters the long-term relationship between the level of goods and services in the overall planning area" (Forest Service Handbook 1909.12, section 5.32(c)). This criterion concerns analysis of the overall Forest Plan and the various multiple-use resources that may be affected. In this criterion, time remaining in the 15-year planning period to move toward goals and achieve objectives and outputs are relevant considerations.

Objectives, standards, and guidelines of the amendment are specific to Canada lynx for the duration of the Upper Charley project. The amendment does not change the goals and objectives for other resources in the Forest Plan. The amendment does place limitations on timber management, wildland fire management, and road management within affected portions of the Upper Charley project. Effects of these limitations are disclosed by alternative in Chapter IV. The amendment is not expected to preclude or require other actions across the forest in lynx habitat and incorporation of this management direction will not change the amount of timber made available for public use outside this project area; will not require changes in grazing permits; plans of operation for mining; or the access and travel management plan (FSEIS, Chapter IV). Therefore, anticipated changes brought about by this amendment in the levels of resource activities and outputs (Forest Plan, page 4-16) projected for this planning period are not expected to be measurable.
**Management Prescriptions:** The management prescriptions factor involves the determination of (1), "whether the change in a management prescription is only for a specific situation or whether it would apply to future decisions throughout the planning area"; and (2), "whether or not the change alters the desired future condition of the land and resources or the anticipated goods and services to be produced" (Forest Service Handbook 1909.12, section 5.32(d)). In this criterion, time remaining in the 15-year planning period and changes in desired future conditions or the anticipated goods and services to be produced are relevant considerations.

The amendment is specific to and for the duration of the Upper Charley project and will not apply to future decisions throughout the planning area (FSEIS, Chapter I, II, and IV). The desired future condition and land allocations are not changed by this decision (FSEIS, Chapter I, II, and IV). As discussed above in “goals, objectives, and outputs”, the long-term levels of goods and services projected in current plan for the 15 year planning period are not measurably changed by the Forest Plan amendment.

**Finding:** On the basis of information and analysis contained in the FEIS, FSEIS and all other information available as summarized above, it is my determination that adoption of the management direction reflected in my decision does not result in a significant amendment to the Forest Plan.

**Environmentally Preferred Alternative**

This decision to amend the Forest Plan for the Upper Charley project does not change the 2002 identification of the environmentally preferable alternative (2002 ROD, pp. 28-29).

**Implementation Date**

If no appeals are filed within the 45-day time period, implementation of the decision may occur on, but not before, 5 business days from the close of the appeal filing period. When appeals are filed, implementation may occur on, but not before, the 15th business day following the date of the last appeal disposition.

**Administrative Review or Appeal Opportunities**

This decision is subject to appeal pursuant to 36 CFR 215.11. Any individual or organization who submitted substantive comments during the comment period for the DSEIS may appeal. Any appeal of this decision must be in writing and fully consistent with the content requirements described in 36 CFR 215.14. A written appeal must be postmarked or received by the Appeal Reviewing Officer (the Regional Forester) within 45 days of the date of publication of the legal notice regarding this decision in the *East Oregonian* newspaper.
Send appeals to:

Linda Goodman, Regional Forester
USDA Forest Service
ATTN: Appeals Office
PO Box 3623
Portland, Oregon 97208-3623

The street location for hand delivery: 333 SW 1st Ave, Portland, OR (office hours: 8-4:30 M-F). Send faxes to: 503-808-2255. Appeals may be filed electronically at: appeals-pacificnorthwest-regional-office@fs.fed.us. Electronic appeals must be submitted as part of the actual e-mail message, or as an attachment in Microsoft Word (.doc), rich text format (.rtf), or portable document format (pdf) only. E-mails submitted to email addresses other than the one listed above, or in formats other than those listed, or containing viruses, will be rejected. It is the responsibility of the appellant to confirm receipt of appeals submitted by electronic mail.

For further information regarding these appeal procedures, contact the Forest Environmental Coordinator Dave Herr at (541) 278-3869.

Contact Person

For further information about this project, contact Monte Fujishin, District Ranger, Pomeroy Ranger District, 71 West Main St., Pomeroy, WA 99347, phone (509) 843-1891.

/s/ Kevin Martin
KEVIN D. MARTIN
Forest Supervisor
Umatilla National Forest

12/30/2005
Date
ATTACHMENT 1

LYNX MANAGEMENT DIRECTION
Umatilla Forest Plan Amended for the
Upper Charley Subwatershed Ecosystem Restoration Projects

The following are lynx management objectives, standards, and guidelines incorporated into the Land and Resource Management Plan, Umatilla National Forest (1990) for the site-specific project called Upper Charley Subwatershed Ecosystem Restoration Projects (2000). The standards and guidelines address the risk to lynx productivity, movement, and mortality, in order to conserve lynx, and to reduce or eliminate adverse effects from management activities (Ruediger et al. 2000) on the Umatilla National Forest lands. Implementation of the following standards and guidelines is expected to support the management of lynx and their habitat and lead to the conservation of the species (Ruediger et al. 2000). This direction applies only to affected lynx habitat within the Asotin Lynx Analysis Unit (LAU).

Objectives would be incorporated into the Forest Plan on page 4-29 below Table 4-10 and above the paragraph staring with “Biological evaluation…” Standards and guidelines would be incorporated into the Forest Plan on page 4-91, bottom of the page following Peregrine Falcon Habitat, with a heading for Canada lynx. This amendment would apply only for the duration of, and to those actions proposed in lynx habitat for the site-specific project called Upper Charley Subwatershed Ecosystem Restoration Projects.

1.0. ALL PROGRAMS AND ACTIVITIES

1.1. Programmatic Objectives

Design vegetation management strategies that are consistent with historical succession and disturbance regimes. The broad-scale strategy should be based on a comparison of historical and current ecological processes and landscape patterns, such as age-class distributions and patch size characteristics. It may be necessary to moderate the timing, intensity, and extent of treatments to maintain all required habitat components in lynx habitat, to reduce human influences on mortality risk and interspecific competition, and to be responsive to current social and ecological constraints relevant to lynx habitat.

To sustain lynx populations through time, maintain or enhance the snowshoe hare prey base by providing vegetation with dense horizontal cover.

1.1.1. Standards

1. Management direction will generally apply only to lynx habitat on Umatilla National Forest lands within Lynx Analysis Units (LAUs).

2. Lynx habitat will be mapped using criteria specific to each geographic area to identify appropriate vegetation and environmental conditions. Primary vegetation includes those types necessary to support lynx reproduction and survival. It is recognized that other vegetation types that are intermixed with the primary vegetation will be used by lynx, but are considered to contribute to lynx habitat only where associated with the primary vegetation.

3. To facilitate project planning, delineate LAUs. To allow for assessment of the potential effects of the project on an individual lynx, LAUs should be at least the size of area used by a resident lynx and contain sufficient year-round habitat.
4. To be effective for the intended purposes of planning and monitoring, LAU boundaries will not be adjusted for individual projects, but must remain constant.

5. Prepare a broad-scale assessment of landscape patterns that compares historical and current ecological processes and vegetation patterns, such as age-class distributions and patch size characteristics. In the absence of guidance developed from such an assessment, limit disturbance within each LAU as follows: if more than 30 percent of lynx habitat within a LAU is currently in unsuitable condition, no further reduction of suitable conditions shall occur as a result of vegetation management activities.

1.1.2. Guidelines
1. The size of LAUs should generally be 16,000 - 25,000 acres (25-50 square miles) in contiguous habitat, and likely should be larger in less contiguous, poorer quality, or naturally fragmented habitat. Larger units should be identified in the southern portions of the Northern Rocky Mountains Geographic Area (Oregon, and SE Washington). In the west, we recommend using watersheds (e.g., 6th code hydrologic unit codes (HUCs) in more northerly portions of geographic areas, and 5th code HUCs in more southerly portions). Coordinate delineation of LAUs with adjacent administrative units and state wildlife management agencies, where appropriate.

2. Areas with only insignificant amounts of lynx habitat may be discarded, or lynx habitat within the unit incorporated into neighboring LAUs. Based on studies at the southern part of lynx range in the western U.S., it appears that at least 6,400 acres (10 square miles) of primary vegetation should be present within each LAU to support survival and reproduction. The distribution of habitat across the LAU should consider daily movement distances of resident females (typically up to 3-6 miles).

3. After LAUs are identified, their spatial arrangement should be evaluated. Determine the number and arrangement of contiguous LAUs needed to maintain lynx habitat well distributed across the planning area.

1.2. Project
1.2.1. Standards
1. Within each LAU, map lynx habitat. Identify potential denning habitat and foraging habitat (primarily snowshoe hare habitat, but also habitat for important alternate prey such as red squirrels), and topographic features that may be important for lynx movement (major ridge systems, prominent saddles, and riparian corridors). Also identify non-forest vegetation (meadows, shrub-grassland communities, etc.) adjacent to and intermixed with forested lynx habitat that may provide habitat for alternate lynx prey species.

2. Within a LAU, maintain denning habitat in patches generally larger than 5 acres, comprising at least 10 percent of lynx habitat. Where less than 10 percent denning habitat is currently present within a LAU, defer any management actions that would delay development of denning habitat structure.

3. Maintain habitat connectivity within and between LAUs.

2.0. TIMBER MANAGEMENT
2.1. Programmatic Objectives
Evaluate historical conditions and landscape patterns to determine historical vegetation mosaics across landscapes through time. For example, large infrequent disturbance events may have been more characteristic of lynx habitat than small frequent disturbances.
Maintain suitable acres and juxtaposition of lynx habitat through time. Design vegetation treatments to approximate historical landscape patterns and disturbance processes.

If the landscape has been fragmented by past management activities that reduced the quality of lynx habitat, adjust management practices to produce forest composition, structure, and patterns more similar to those that would have occurred under historical disturbance regimes.

2.2. **Project Objectives**

Design regeneration harvest, planting, and thinning to develop characteristics suitable for snowshoe hare habitat.

Design project to retain/enhance existing habitat conditions for important alternate prey (particularly red squirrel).

2.2.1. **Standards**

1. Management actions (e.g., timber sales, salvage sales) shall not change more than 15 percent of lynx habitat within a LAU to an unsuitable condition within a 10-year period. *This period began with the listing of Canada Lynx in 2000 (calendar year).*

2. Following a disturbance, such as blowdown, fire, insects/pathogens mortality that could contribute to lynx denning habitat, do not salvage harvest when the affected area is smaller than 5 acres. Exceptions to this include:
   a) Areas such as developed campgrounds; or
   b) LAUs where denning habitat has been mapped and field validated (not simply modeled or estimated), and denning habitat comprises more than 10% of lynx habitat within a LAU. In these cases, salvage harvest may occur, provided that at least the minimum amount is maintained in a well-distributed pattern.

3. In lynx habitat, pre-commercial thinning will be allowed only when stands no longer provide snowshoe hare habitat (e.g., self-pruning processes have eliminated snowshoe hare cover and forage availability during winter conditions with average snowpack).

4. In aspen stands within lynx habitat in the Northern Rocky Mountains Geographic Areas, apply harvest prescriptions that favor regeneration of aspen.

2.2.2. **Guidelines**

1. Plan regeneration harvests in lynx habitat where little or no habitat for snowshoe hare is currently available, to recruit a high density of conifers, hardwoods, and shrubs preferred by hares. Consider the following:
   a) Design regeneration prescriptions to mimic historical fire (or other natural disturbance) events, including retention of fire-killed dead trees and coarse woody debris;
   b) Design harvest units to mimic the pattern and scale of natural disturbances and retain natural connectivity across the landscape. Evaluate the potential of riparian zones, ridges, and saddles to provide connectivity; and
   b) Provide for continuing availability of foraging habitat in proximity to denning habitat.

2. In areas where recruitment of additional defining habitat is desired, or to extend the production of snowshoe hare foraging habitat where forage quality and quantity is declining due to plant succession, consider improvement harvests (commercial thinning, selection, etc). Improvement harvests should be designed to:
   a) Retain and recruit the understory of small diameter conifers and shrubs preferred by hares;
   b) Retain and recruit coarse woody debris, consistent with the likely availability of such material under natural disturbance regimes; and
   c) Maintain or improve the juxtaposition of denning and foraging habitat.
3. Provide habitat conditions through time that support dense horizontal understory cover, and high densities of snowshoe hares. This includes, for example, mature multi-storied conifer vegetation in the west. Focus vegetation management, including timber harvest and use of prescribed fire, in areas that have potential to improve snowshoe hare habitat (dense horizontal cover) but that presently have poorly developed understories that have little value to snowshoe hares.

3.0 FIRE MANAGEMENT

3.1 Programmatic Objectives

Restore fire as an ecological process. Evaluate whether fire suppression, forest type conversions, and other forest management practices have altered fire regimes and the functioning of ecosystems.

Revise or develop fire management plans to integrate lynx habitat management objectives. Prepare plans for areas large enough to encompass large historical fire events.

Use fire to move toward landscape patterns consistent with historical succession and disturbance regimes. Consider use of mechanical pre-treatment and management ignitions if needed to restore fire as an ecological process.

Adjust management practices where needed to produce forest composition, structure, and patterns more similar to those that would have occurred under historical succession and disturbance regimes.

Design vegetation and fire management activities to retain or restore denning habitat on landscape settings with highest probability of escaping stand-replacing fire events. Evaluate current distribution, amount, and arrangement of lynx habitat in relation to fire disturbance patterns.

3.2 Project Objectives

Use fire as a tool to maintain or restore lynx habitat.

When managing wildland fire, minimize creation of permanent travel ways that could facilitate increased access by competitors.

3.2.1 Standards

1. In the event of a large wildfire, conduct a post-disturbance assessment prior to salvage harvest, particularly in stands that were formerly in late successional stages, to evaluate potential for lynx denning and foraging habitat.
2. Design burn prescriptions to regenerate or create snowshoe hare habitat (e.g., regeneration of aspen and lodgepole pine).

3.2.2 Guidelines

1. Design burn-prescriptions to promote response by shrub and tree species that are favored by snowshoe hare.
2. Design burn prescriptions to retain or encourage tree species composition and structure that will provide habitat for red squirrels or other alternate prey species.
3. Consider the need for pre-treatment of fuels before conducting management ignitions.
4. Avoid constructing permanent firebreaks on ridges or saddles in lynx habitat.
5. Minimize construction of temporary roads and machine fire lines to the extent possible during fire suppression activities.
6. Design prescribed burn prescriptions and, where feasible, conduct fire suppression actions in a manner that maintains adequate lynx denning habitat (10% of lynx habitat per LAU).

4.0. RECREATION MANAGEMENT

4.1. Programmatic Objectives
Plan for and manage recreational activities to protect the integrity of lynx habitat, considering as a minimum the following:
- Minimize snow compaction in lynx habitat.
- Concentrate recreational activities within existing developed areas, rather than developing new recreational areas in lynx habitat.
- On Umatilla National Forest lands, ensure that development or expansion of developed recreation sites or ski areas and adjacent lands address landscape connectivity and lynx habitat needs.

Maintain the natural competitive advantage of lynx in deep snow conditions.

4.1.1. Standards

1. On Umatilla National Forest lands in lynx habitat, allow no net increase in groomed or designated over-the-snow routes and snowmobile play areas by LAU unless the designation serves to consolidate unregulated use and improves lynx habitat through a net reduction of compacted snow areas. Note: This standard does not apply to ski areas: see Ski Areas/Large Resorts below.
2. Map and monitor the location and intensity of snow compacting activities (for example, snowmobiling, snowshoeing, cross-country skiing, dog sledding, etc.) that coincide with lynx habitat, to facilitate future evaluation of effects on lynx as information becomes available.
3. On Umatilla National Forest lands in lynx habitat, allow no net increase in groomed or designated over-the-snow routes and snowmobile play areas by LAU. This is intended to apply to dispersed recreation, rather than existing ski areas.

4.1.2. Guidelines

1. Provide a landscape with interconnected blocks of foraging habitat where snowmobile, cross-country skiing, snowshoeing, or other snow compacting activities are minimized or discouraged.
2. As information becomes available on the impact of snow-compacting activities and disturbance on lynx, limit or discourage this use in areas where it is shown to compromise lynx habitat. Such actions should be undertaken on a priority basis considering habitat function and importance.

4.2. Project

4.2.1. Standards

Developed Recreation:

1. In lynx habitat, ensure that actions do not degrade or compromise landscape connectivity when planning and operating new or expanded recreation developments.
2. Design trails, roads, and lift termini to direct winter use away from diurnal security habitat.

Dispersed Recreation:

1. To protect the integrity of lynx habitat, evaluate (as new information becomes available) and amend as needed, winter recreational special use permits (outside of permitted ski areas) that promote snow compacting activities in lynx habitat.
4.2.2. **Guidelines**

*Developed Recreation:*

1. Identify and protect potential security habitats in and around proposed developments or expansions.
2. When designing ski area expansions, provide adequately sized coniferous inter-trail islands, including the retention of coarse woody material, to maintain snowshoe hare habitat.
3. Evaluate, and adjust as necessary, ski operations in expanded or newly developed areas to provide nocturnal foraging opportunities for lynx in a manner consistent with operational needs, especially in landscapes where lynx habitat occurs as narrow bands of coniferous forest across the mountain slopes.

5.0. **SKI AREAS / LARGE RESORTS**

5.1. **Programmatic Objectives**

When conducting landscape level planning on Umatilla National Forest lands, allocate land uses such that landscape connectivity is maintained.

5.1.1. **Standards**

1. Within identified key linkage areas, provide for landscape connectivity

5.2. **Project**

5.2.1. **Standards**

1. When planning new or expanding recreational developments, ensure that connectivity within linkage areas are maintained.

5.2.2. **Guidelines**

1. Plan recreational development, and manage recreational and operational uses to provide for lynx movement and to maintain effectiveness of lynx habitat.

6.0. **FOREST ROADS AND TRAILS**

6.1. **Programmatic Objectives**

Maintain the natural competitive advantage of lynx in deep snow conditions.

6.1.1. **Standards**

1. On Umatilla National Forest lands in lynx habitat, allow no net increase in groomed or designated over-the-snow routes and snowmobile play areas by LAU. Winter logging activity is not subject to this restriction.

6.1.2. **Guidelines**

1. Determine where high total road densities (>2 miles per square mile) coincide with lynx habitat, and prioritize roads for seasonal restrictions or reclamation in those areas.
2. Minimize roadside brushing in order to provide snowshoe hare habitat.
3. Locate trails and roads away from forested stringers.
4. Limit public use on temporary roads constructed for timber sales. Design new roads, especially the entrance, for effective closure upon completion of sale activities.
5. Minimize building of roads directly on ridgetops or areas identified as important for lynx habitat connectivity.
7.0. HIGHWAYS

7.1. Programmatic Objectives
Reduce the potential for lynx mortality related to highways.

Ensure that connectivity is maintained across highway rights-of-way

7.1.1. Standards
1. Within lynx habitat, identify key linkage areas and potential highway crossing areas.
2. The Forest will work cooperatively with the Federal Highway Administration and State Departments of Transportation to address the following within lynx geographic areas:
   a) Identify land corridors necessary to maintain connectivity of lynx habitat.
   b) Map the location of "key linkage areas" where highway crossings may be needed to provide habitat connectivity and reduce mortality of lynx (and other wildlife).

7.1.2. Guidelines
1. Where needed, develop measures such as wildlife fencing and associated underpasses or overpasses to reduce mortality risk.
2. Evaluate whether land ownership and management practices are compatible with maintaining lynx highway crossings in key linkage areas. On public lands, management practices will be compatible with providing habitat connectivity. On private lands, agencies will strive to work with landowners to develop conservation easements, exchanges, or other solutions.

7.2. Project
7.2.1. Standards
1. Identify, map, and prioritize site-specific locations, using topographic and vegetation features, to determine where highway crossings are needed to reduce highway impacts on lynx.
2. Within the range of lynx, complete a biological assessment for all proposed highway projects on Umatilla National Forest lands. A land management agency biologist will review and coordinate with highway departments on development of the biological assessment.

7.2.2. Guidelines
1. Dirt and gravel roads traversing lynx habitat (particularly those that could become highways) should not be paved or otherwise upgraded (e.g., straightening of curves, widening of roadway, etc.) in a manner that is likely to lead to significant increases in traffic volumes, traffic speeds, increased width of the cleared ROW, or would foreseeably contribute to development or increases in human activity in lynx habitat. Whenever rural dirt and gravel roads traversing lynx habitat are proposed for such upgrades, a thorough analysis should be conducted on the potential direct and indirect effects to lynx and lynx habitat.

8.0. LIVESTOCK MANAGEMENT

8.1. Programmatic Objectives
In lynx habitat and adjacent shrub-steppe habitats, manage grazing to maintain the composition and structure of native plant communities.
8.2. **Project Objectives**
Manage livestock grazing within riparian areas and willow carrs in lynx habitat to provide conditions for lynx and lynx prey.

Maintain or move towards native composition and structure of herbaceous and shrub plant communities.

Ensure that ungulate grazing does not impede the development of snowshoe hare habitat in natural or created openings within lynx habitat.

8.2.1. **Standards**
1. Do not allow livestock use in openings created by fire or timber harvest that would delay successful regeneration of the shrub and tree components.
2. Manage grazing in aspen stands to ensure sprouting and sprout survival sufficient to perpetuate the long-term viability of the clones.
3. Within the elevation ranges that encompass forested lynx habitat, shrub-steppe habitats should be considered as integral to the lynx habitat matrix and should be managed to maintain or achieve mid seral or higher condition.
4. Within lynx habitat, manage livestock grazing in riparian areas and willow carrs to maintain or achieve mid seral or higher condition to provide cover and forage for prey species.

9.0. **OIL & GAS LEASING, MINES, AND RESERVOIR DEVELOPMENT**

9.1. **Programmatic Objectives**
Design developments to minimize impacts on lynx habitat.

9.1.1. **Guidelines**
1. Map oil and gas production and transmission facilities, mining activities and facilities, dams, and agricultural lands on public lands and adjacent private lands, in order to assess cumulative effects.

9.2. **Project**

9.2.1. **Standards**
1. On projects where over-snow access is required, restrict use to designated routes.

9.2.2. **Guidelines**
1. If activities are proposed in lynx habitat, develop stipulations for limitations on the timing of activities and surface use and occupancy at the leasing stage.
2. Minimize snow compaction when authorizing and monitoring developments. Encourage remote monitoring of sites that are located in lynx habitat, so that they do not have to be visited daily.
3. Develop a reclamation plan (e.g., road reclamation and vegetation rehabilitation) for abandoned well sites and closed mines to restore suitable habitat for lynx.
4. Close newly constructed roads (built to access mines or leases) in lynx habitat to public access during project activities. Upon project completion, reclaim or obliterate these roads.
10.0. PUBLIC-PRIVATE LAND OWNERSHIP

10.1. Programmatic Objectives
Retain lands in key linkage areas in public ownership.

10.1.1. Standards
1. Identify key linkage areas by management jurisdiction(s) in management plans and prescriptions.

10.1.2. Guidelines
1. In land adjustment programs, identify key linkage areas. Work towards unified management direction via habitat conservation plans, conservation easements or agreements, and land acquisition.

10.2. Project

10.2.1. Standards
1. Develop and implement specific management prescriptions to protect/ enhance key linkage areas.
2. Evaluate proposed land exchanges, land sales, and special use permits for effects on key linkage areas.

11.0. HABITAT CONNECTIVITY

11.1. Programmatic Objectives
Maintain and, where necessary and feasible, restore habitat connectivity across forested landscapes.

11.1.1. Standards
1. Identify key linkage areas that may be important in providing landscape connectivity within and between geographic areas, across all ownerships.
2. Develop and implement a plan to protect key linkage areas on Umatilla National Forest lands from activities that would create barriers to movement. Barriers could result from an accumulation of incremental projects, as opposed to anyone project.
3. Evaluate the potential importance of shrub-steppe habitats in providing landscape connectivity between blocks of lynx habitat. Livestock grazing within shrub-steppe habitats in such areas should be managed to maintain or achieve mid seral or higher condition, to maximize cover and prey availability. Such areas that are currently in late seral condition should not be degraded.

11.1.2. Guidelines
1. Where feasible, maintain or enhance native plant communities and patterns, and habitat for potential lynx prey, within identified key linkage areas. Pursue opportunities for cooperative management with other landowners.

12.0. TRAPPING, CONTROL, AND SHOOTING

12.1. Programmatic Objectives
Reduce incidental harm or capture of lynx during regulated and unregulated trapping activity, and ensure retention of an adequate prey base.
Reduce incidental harm or capture of lynx during predator control activities, and ensure retention of adequate prey base.

Reduce lynx mortalities related to mistaken identification or illegal shooting.

Maintain the natural competitive advantage of lynx in deep snow conditions.

12.1.1. Standards
   1. Predator control activities, including trapping or poisoning on domestic livestock allotments, on Umatilla National Forest lands within lynx habitat, will be conducted by Wildlife Services personnel in accordance with Wildlife Services Annual Work Plan and FWS recommendations established through a formal Section 7 consultation process.
   2. On Umatilla National Forest lands in lynx habitat, allow no net increase in groomed or designated over-the-snow routes and snowmobile play areas by LAU. This is intended to apply to dispersed recreation, rather than existing ski areas.

12.1.2. Guidelines
   1. The Umatilla National Forest should work cooperatively with States and Tribes to reduce incidental take of lynx related to trapping.
   2. Initiate interagency information and education efforts throughout the range of lynx in the contiguous states. Utilize trailhead posters, magazine articles, and news releases, state hunting and trapping regulation booklets, etc., to inform the public of the possible presence of lynx, field identification, and their status.
   3. The Umatilla National Forest should work cooperatively with States and Tribes to ensure that important lynx prey are conserved.
Upper Charley Subwatershed
Ecosystem Restoration Projects

Final Supplemental
Environmental Impact Statement

USDA Forest Service
Pacific Northwest Region

Umatilla National Forest
Pomeroy Ranger District

December 2005

Lead Agency: USDA Forest Service

Responsible Official: Kevin D. Martin, Forest Supervisor
Umatilla National Forest
2517 S.W. Hailey Avenue
Pendleton, Oregon 97801

For Further Information
Contact: Monte Fujishin
District Ranger
Pomeroy Ranger District
Final Supplemental Environmental Impact Statement
for
Upper Charley Subwatershed
Ecosystem Restoration Projects

Table of Contents:

This document is organized in the following format:

► Abstract
► Public and Agency Letters with Comments
► Forest Service Response to Comments
► Errata
► Draft Supplemental Environmental Impact Statement
FINAL SUPPLEMENTAL ENVIRONMENTAL IMPACT STATEMENT
for
UPPER CHARLEY SUBWATERSHED
ECOSYSTEM RESTORATION PROJECTS
GARFIELD COUNTY, WASHINGTON

Abstract:
This final environmental impact statement supplements the Upper Charley Subwatershed Ecosystem Restoration Projects final environmental impact statement (FEIS) released May 2002. With this document the Forest Service is proposing to amend the Umatilla National Forest’s Land and Resource Management Plan to incorporate management direction (objectives, standards, and guidelines) for Canada Lynx, only for the site-specific project called Upper Charley Subwatershed Ecosystem Restoration Projects.

This final supplemental environmental impact statement (FSEIS) tiers to and references the 2002 FEIS and ROD. The two environmental impact statement documents therefore, must be thought of and used together as if they are one statement.

This FSEIS for Upper Charley Subwatershed Ecosystem Restoration Projects had been developed to provide information regarding changes in the environmental analysis that have occurred since the release of the Draft Supplemental Environmental Impact Statement (DSEIS) in July 2005. It includes comments on the DSEIS that were submitted by EPA, Oregon Natural Resources Council (ONRC), Hells Canyon Preservation Council, Friends of the Clearwater, The Lands Council, and Blue Mountain Biodiversity Project/League of Wilderness Defenders, and provides our response to those comments. Changes to the DSEIS are included in errata sheet(s) attached. Only comments, our responses, and changes need to be circulated (CFR 1500.4[m]). The entire DSEIS with a new cover sheet will be filed as the FSEIS (40 CFR 1503.4[c]). This FSEIS is intended to provide the basic information on changes and clarification that were made to the DSEIS in a concise, easily understandable manner.

Agency and public reviewers have provided the Forest Service with their comments on the DSEIS. All reviewers had been informed of their obligation to structure their participation in the National Environmental Policy Act process so that it is meaningful and alerts the agency to the reviewer’s position and contentions [Vermont Yankee Nuclear Power Corp. v. NRDC, 435 U.S. 519,533 (1978)].

Lead Agency: USDA Forest Service

Responsible Official: Kevin D. Martin, Forest Supervisor
Umatilla National Forest

Further Information: Monte Fujishin, District Ranger
Pomeroy Ranger District
71 West Main St.
Pomeroy, WA 99347
(509) 843-1891 (voice)
(509) 843-4621 (fax)
## Comments

<table>
<thead>
<tr>
<th>Comment 1(a):</th>
<th>Our Response</th>
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<tr>
<td>&quot;ONRC objects to the project level adoption of the LCAS because the lynx policy has never been subjected to programmatic NEPA analysis.&quot;</td>
<td>Amending the Forest plan programmatically (forest-wide) was considered but not analyzed in detail because the Umatilla Forest Plan is currently being revised and expected to be approved by the end of 2007. New information about lynx and any resulting changes in management direction to conserve Canada lynx and its habitat will be considered and blended within the context of the Forest Plan revision process. There is no need to duplicate the effort of the revision process in this site-specific analysis.</td>
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<th>Comment 1(b):</th>
<th>Our Response</th>
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<td>&quot;Alternative means of conserving lynx have not been considered. The environmental consequences of the LCAS and alternatives have not been considered and compared.&quot;</td>
<td>Alternative means of conserving lynx were considered (DSEIS, Chapter II, Alternative I) but not analyzed in detail because recommendations from the Lynx Steering Committee represents the most creditable and applicable synthesis of science, including various viewpoints concerning the ecology, management and conservation of lynx and lynx habitat in the contiguous United States. In addition, as stated in Chapter II, Alternative H, various management strategies to conserve Canada lynx will be considered and blended within the context of the Forest Plan revision process. There is no need to duplicate the effort of the revision process in this site-specific analysis.</td>
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<th>Comment 2:</th>
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<td>&quot;We also cannot see from the SEIS where the FS accurately disclosed the current condition of the lynx habitat. Suitable lynx habitat requires certain conditions be met and the EIS just asserts their presence without documenting the field surveys, which would be required to confirm assumptions.&quot;</td>
<td>The affected environment of Lynx habitat was adequately disclosed in the DSEIS, Chapter III. Additional information regarding lynx and their habitat, including field survey information, can be found in the project record.</td>
</tr>
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</table>
**ONRC requested we also review their September 20, 2004 scoping comments**

**Our response to their scoping comments are listed below:**

<table>
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<tr>
<th>Comment 3:</th>
<th>&quot;The agency should consider a wide range of alternatives and not rely completely on the conservation measures in the LCAS to protect lynx.&quot;</th>
<th>See response to Comment 1(b).</th>
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<tr>
<td>Comment 4:</td>
<td>&quot;Two specific recommendations for ensuring appropriate management for lynx conservation are: 1) manage for lynx viability (i.e. recovery of a healthy population) not just survival; and 2) consider a wide range of management alternatives including managing all high elevation &quot;snow zone&quot; forests that support a prey base of lynx habitat. 3) do not look at the Upper Charley project area or the Umatilla National Forest in isolation. Consider the cumulative effects of this plan amendment in terms of the whole lynx range in this region.&quot;</td>
<td>1) Standards and guidelines (DSEIS, Appendix C) address the risk to lynx productivity, movement, and mortality, in order to conserve lynx, and to reduce or eliminate adverse effects from management activities (Ruediger et al. 2000) on Umatilla National Forest lands. Implementation of the standards and guidelines is expected to support the management of lynx and their habitat and lead to the conservation of the species (Ruediger et al. 2000). 2) See response to Comment 1(b). 3) Cumulative effects to lynx and their habitat are disclosed in the DSEIS, Chapter IV, pages 2-9. The cumulative effects disclosed for Canada lynx are consistent with the Forest Plan, as amended (DSEIS, Chapter IV, pages 4-6, Appendix C).</td>
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<td>Comment 5:</td>
<td>&quot;This proposed plan amendment must also consider and disclose the effects of all forest management activities in terms of its effects on (1) lynx movement and travel corridors, (2) lynx denning and down wood, and (3) lynx foraging, including the adverse effects of various forest management activities on populations of small mammals and other potential lynx prey species&quot;.</td>
<td>Direct, indirect, and cumulative effects to lynx movement, travel corridors, denning, down wood, and foraging (prey species) are disclosed in the DSEIS, Chapter IV pages 3-8. The cumulative effects disclosed for Canada lynx are consistent with the Forest Plan, as amended (DSEIS, Appendix C).</td>
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<td>Comment 6:</td>
<td>&quot;The plan amendment and SEIS must consider any adverse affects on the quality of the habitat for denning, foraging, dispersal, and prey base.&quot;</td>
<td>See response to Comment 5.</td>
</tr>
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</table>
| **Comment 7:**  
"The Forest Service must not use the narrow view of lynx habitat described in the LCAS as represented only by large areas of subalpine fir." | Lynx habitat was mapped using criteria specific to the Upper Charley project area (Appendix C, page 1, Standard 1.1.1). Vegetation included those types necessary to support lynx reproduction and survival. Primary vegetation appropriate for this analysis was subalpine fir habitat types, where lodgepole pine is a major seral species, generally between 4,100-6,600 feet in elevation. Secondary vegetation included cool, moist grand fir and cool, moist Douglas-fir habitat types (DSEIS, Chapter III, page2-3). |
| **Comment 8:**  
"The agency has an obligation to respond to credible opposing views." | See response to Comment 1(b). In addition, various viewpoints concerning lynx habitat and distribution were considered by the authors of the often referenced Ecology and Conservation of Lynx in the United States (Ruggiero et al. 2000) and the Canada Lynx Conservation Assessment and Strategy (LCAS) [Ruediger et al. 2000]. These publications along with subsequent updates and recommendations from the Lynx Steering Committee represents the most creditable and applicable synthesis of science, including various viewpoints concerning the ecology, management and conservation of lynx and lynx habitat in the contiguous United States (DSEIS, Chapter II, page 1, Chapter III, page 3). |
| **Comment 9**  
"Lynx habitat maps that the Forest Service has developed inappropriately exclude areas that have historically been used by lynx and are likely to be used by lynx today and/or in the future. The Forest Service has not offered a reasonable justification for excluding large areas of suitable habitat from the lynx maps and for refusing to formally consult on projects in these areas." | See response to Comment 7. |
| **ONRC requested we also review their June 22, 2002 appeal comments  
Our response to their appeal comments are listed below:** | |
| **Comment 10:**  
"The Upper Charley Project will adversely affect the functioning of the regional connectivity corridor for migration, foraging, and denning by converting at least 390 acres of suitable lynx habitat into unsuitable habitat by reducing prey availability, and by reducing present and future denning habitat". | See response to Comment 5. |
| Comment 11: |
| "The Upper Charley EIS does not adequately address the impacts of, or alternatives to, the proposed logging activities. For instance, the EIS relies on modified lynx mapping criteria that exclude the impact of certain activities in certain areas from scrutiny as to their impacts on lynx and lynx habitat. The EIS also relies on the Lynx Conservation Assessment and Strategy (LCAS) and certain lynx-related “Project Design Criteria” that have never been subject to NEPA analysis." |
| See response to Comments 5 and 7 regarding impacts to lynx and lynx habitat and lynx habitat mapping. |
| This draft environmental impact statement supplements Upper Charley Subwatershed Ecosystem Restoration Projects final environmental impact statement (FEIS) released May 2002. With this document the Forest Service is proposing to amend the Umatilla National Forest’s Land and Resource Management Plan to incorporate management for Canada lynx, only for the site-specific project called Upper Charley Subwatershed Ecosystem Restoration Projects (DSEIS, Chapter I, page 1). |

| Comment 12: |
| "Consultation with the FWS on the impacts of the Upper Charley Project on lynx has also been rendered inadequate by the NEPA violation listed above." |
| Consultation and disclosure of impacts to Canada lynx and lynx habitat are consistent with the forest plan, as amended (DSEIS, Chapter IV, pages 9 and 10; Appendix C; and project record). |

| Comment 13: |
| "The lynx situation is very analogous to the spotted owl situation a decade ago. The Forest Service is coming up with species management plans without going through NEPA." |
| See response to Comment 11. |

<p>| Comment 14: |
| &quot;The Forest Service has not rigorously applied the LCAS in this project. The Forest Service finds that 9,866 acres of the Asotin LAU are suitable denning habitat, but the Forest Service has not actually site-specifically analyzed the habitat to make sure that it meets all the required characteristics for suitable denning habitat such as down wood.&quot; |
| The Forest Supervisor proposes to amend the Umatilla National Forest’s Land and Resource Management Plan to incorporate management direction (objectives, standards, and guidelines) for Canada lynx, only for the site-specific project called Upper Charley Subwatershed Ecosystem Restoration Projects (DSEIS, Chapter I, page 2). Appendix C of this DSEIS provides a detailed listing of objectives, standards, and guidelines for this amendment. See response to Comment 7 regarding lynx habitat mapping. |</p>
<table>
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<tr>
<th><strong>Comment 15:</strong></th>
<th>Denning habitat is present in the Asotin LAU but is not present in the Upper Charley analysis area (DSEIS, Chapter III, pages 3-4).</th>
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<tr>
<td>&quot;Upper Charley ROD Appendix C, page C-2 says there are 986 acres of denning habitat, but page C-3 says the latest mapping work shows that there isn’t any denning habitat. Which is correct?&quot;</td>
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<th><strong>Comment 16:</strong></th>
<th>A broad-scale assessment of landscape pattern was not conducted for Upper Charley project. The responsible official chose the option of limiting unsuitable habitat to no more than 30 percent within a LAU (DSEIS, Appendix C, standard 1.1.1 (5)). Effects disclosed for Canada lynx are consistent with the Forest Plan, as amended (DSEIS, Chapter IV, pages 2-8).</th>
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<tr>
<td>&quot;Upper Charley ROD Appendix C repeatedly says that the project is “aimed at achieving an appropriate HRV” but the LCAS requires management within a certain percentage of midpoint HRV. Midpoint HRV and appropriate HRV are never reconciled in the analysis. NEPA requires disclosure of information necessary to determine compliance with legal requirements such as the Endangered Species Act, Clean Water Act, etc...&quot;</td>
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<tr>
<th><strong>Comment 17:</strong></th>
<th>Livestock grazing is a cumulative action. The cumulative effect of livestock grazing relevant to the Upper Charley analysis area are disclosed in the DSEIS, Chapter IV, page 5.</th>
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<tr>
<td>&quot;The Upper Charley EIS also dismisses without proper analysis the possibility that livestock grazing may adversely impact lynx habitat suitability.&quot;</td>
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<tr>
<th><strong>Comment 18(a):</strong></th>
<th>A non-commercial harvest (mechanical and prescribed fire) alternative (D) was considered and analyzed in detail (FEIS, Chapter II; DSEIS, Chapter IV, pages 6-8). Currently there is no approved plan for implementation of prescribed natural fire use for resource benefit within Upper Charley analysis area. Development of such a plan is outside the scope of this EIS.</th>
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<tr>
<td>&quot;The Upper Charley project intends to use shelterwood group selection harvest (i.e. small clearcuts) to increase habitat for lynx prey species such as snowshoe hare. The FEIS failed to consider the alternative of using prescribed natural fire to accomplish the same thing, if necessary.&quot;</td>
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</table>
**Comment 18(b):**
"The Forest Service also failed to evaluate the habitat value of existing stands for prey species other than snowshoe hare. There is a trade-off between regen harvest to gain a temporary burst of snowshoe hare habitat in 20-25 years vs. the short, mid, and long-term value of habitat for alternate lynx prey species if the no action alternative were selected. This trade-off was not evaluated in the Upper Charley NEPA analysis."

See response to Comment 5.

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**ONRC requested we also review their original scoping comments on the DEIS dated June 12, 2000**

**Initial Scoping Comments**

Our responses to these comments are referenced in our Forest Service Response to Comments that was circulated with the FEIS and ROD.

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**FRIENDS OF THE CLEARWATER**
(Gary Macfarlane)
The Lands Council (Mike Peterson)
Oregon Natural Resources Council (Doug Heiken)
Blue Mountain Biodiversity Project/League of Wilderness Defenders

**Comment 1:**
"Please incorporate, by reference, all the past comments on this project from these organizations. This is important as the DSEIS only deals with the issue of the forest plan amendment for lynx. As such, these comments are mainly directed at the amendment issue. Our previous comments combined with these comments are to be viewed together in context of the whole proposal."

Friends of the Clearwater and The Lands Council did not make comments to the DEIS for the Upper Charley Subwatershed Ecosystem Restoration Projects (FEIS, ROD). Our responses to comments from Umatilla Forest Watch, Oregon Natural Resources Council, and Blue Mountain Biodiversity Project/League of Wilderness Defenders are referenced in our Response to Comments that was circulated with the FEIS and ROD.
<table>
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<td>&quot;The agency should consider a wide range of alternatives and not rely completely on the conservation measures in the LCAS to protect lynx.&quot;</td>
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<td>&quot;Project-specific design and analysis is the best way to ensure that management is appropriate to the Upper Charley projects, and should be considered in the Supplemental EIS in addition to the more general measures that will be included in the Forest Plan Amendment.&quot;</td>
</tr>
<tr>
<td>See our response to ONRC, Comment 4.</td>
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<th><strong>Comment 3:</strong></th>
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<td>&quot;The DSEIS continues the problems in the FEIS and ROD by adopting measures which use modified lynx mapping criteria that exclude the impact of certain activities in certain areas from scrutiny as to their impacts on lynx and lynx habitat all under the rubric of these areas are not that important for lynx&quot;.</td>
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<td>See our response to ONRC, Comments 5 and 7 regarding impacts to lynx and lynx habitat and lynx habitat mapping.</td>
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<th><strong>Comment 4:</strong></th>
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| "This DSEIS should have evaluated the validity of a couple of different assumptions:  
1. Lynx are rare and/or extirpated in the Umatilla National Forest because of human factors (management activities, decline of connectivity with other habitat areas in Washington, Oregon, and Idaho, historical trapping, and others) and not because the Umatilla was not historically habitat for lynx (though probably in low numbers).  
2. Lynx are rare and/or extirpated in the Umatilla National Forest because the area never was occupied habitat and only was a |
<p>| Historic occurrences of Canada lynx are disclosed (DSEIS, Chapter III, pages 2-4). Based on limited verified records of lynx, lack of reproductive records, low frequency of occurrences, and correlations with cyclic lynx populations in Canada, lynx are considered dispersers/transients and not reproducing residents in the Blue Mountains of SE Washington and NE Oregon including the Upper Charley analysis area (DSEIS, Chapter III, pages 2-4). |</p>
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<tr>
<th>dispersal corridor during years with high lynx numbers further north.</th>
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<tr>
<td>Instead of considering both of these assumptions as their relative merits, the agency adopted the second conclusion without evaluation.</td>
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**Comment 5(a):**
"Other failures to adequately address issues raised during scoping include two suggestions that have been given short shrift. The first is managing the area for lynx viability (i.e. recovery of a healthy population) rather than mere survival. The second was to consider a range of management alternatives including managing all "snow zone" forests that support a prey base as lynx habitat, not just the areas that fall within certain forest habitat types."

See our response to ONRC Comment 4.

**Comment 5(b):**
"This failure is crucial as the DSEIS relies on the science underlying the LCAS without evaluating recommendations from the LCAS as to their adequacy in this site-specific instance on the Umatilla National Forest. This is crucial because the DSEIS leads one to believe the Umatilla has less suitable habitat for lynx than adjacent national forests."

See our response to ONRC Comment 7 regarding Lynx habitat mapping.

**Comment 5(c):**
"As such the standard protections in the LCAS may be inadequate in this area that is even more sensitive than habitat where studied lynx populations exits."

Recommendations from the Lynx Steering Committee represents the most creditable and applicable synthesis of science, including various viewpoints concerning the ecology, management and conservation of lynx and lynx habitat in the contiguous United States (DSEIS, Chapter II, page 1, Chapter III, page 3). Also see our response to ONRC, Comment 4 and 5 regarding impacts to lynx and lynx habitat.

**Comment 6:**
"The DSEIS also fails to answer questions about conflicting information in lynx habitat within the project area raised in scoping comments. Is there any denning habitat within the project area or not?"

See our response to ONRC Comment 15 regarding Canada lynx denning habitat.
<p>| Comment 7: | &quot;The DSEIS is not clear whether livestock will be excluded from logged openings and/or burns and as to how this would be done.&quot; | Livestock in the Peola Cattle Allotment is not expected to be excluded because many years of utilization inspections of the allotment have failed to find any significant use of conifer trees. Shrub utilization has always been well below the 30 percent current annual growth utilization standard for riparian and 55 percent of current annual growth utilization for uplands and transitory areas (recent clearcuts, etc.) (2002 Record of Decision, Appendix C, page 4). |
| Comment 8: | &quot;For the Forest Service to maintain that some threats to lynx may harm individual lynx, but do not threaten populations as it claims in many places in the DSEIS and for the Forest Service to consequently approve any actions that may harm individual lynx, the Forest Service must provide peer-reviewed scientific data that population-level impacts will not occur.&quot; | The determination of “may effect not likely to adversely affect” for Canada lynx is disclosed (DSEIS, Chapter IV, page 6, Table 4-16). The U.S. Fish and Wildlife Service concurred with this determination (DSEIS, Chapter IV, page 10). |
| Comment 9: | &quot;The DSEIS is not clear whether this amendment is “significant” under NFMA. We ask this question because it appears the FS is engaging in a pattern of doing several site-specific amendments on the Umatilla in lynx habitat. The failure to consider those amendments cumulatively violates both NFMA and NEPA.&quot; | A finding of significance under 36 CFR 219 (1982) will accompany the record of decision for the FSEIS. Cumulative effects to lynx and their habitat are disclosed in the DSEIS Chapter IV, pages 5-6. The cumulative effects disclosed for Canada lynx are consistent with the Forest Plan, as amended (DSEIS, Chapter 4, pages 4-6, Appendix C). |
| Comment 10: | &quot;The DSEIS does not mention the School Fire. The impacts on potential or existing lynx habitat, whether within the project area, Asotin LAU, or and adjacent area should be evaluated.&quot; | The DSEIS was circulated before the School Fire occurred. School Fire occurred in August 2005, and the DSEIS was circulated July 2005. The fire did not burn or change the condition of lynx habitat in Upper Charley analysis area. Therefore, effects to lynx habitat in the Upper Charley analysis area remain as described in the DSEIS. School Fire did change lynx habitat in the Asotin LAU. An evaluation of effects in the LAU show they are consistent with the amended Forest Plan. Please see errata sheets circulated with the Final Supplemental Environmental Impact Statement (FSEIS) and ROD for this information. |</p>
<table>
<thead>
<tr>
<th>Comment 1:</th>
<th>No response necessary.</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;EPA has rated this project LO (Lack of Objection). We support conservation measures for management of the Canada Lynx in the area and we appreciate the inclusion of Appendix C, which discussed the Lynx management direction.&quot;</td>
<td></td>
</tr>
</tbody>
</table>
**ERRATA**

The Responsible Official, prior to signing the Record of Decision, reviewed the changes listed below. The changes were determined to not affect the conclusions presented in the draft supplemental environmental impact statement (DSEIS).

<table>
<thead>
<tr>
<th>Chapter and Page</th>
<th>Description of Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chapter IV Page IV-5</td>
<td>Insert the following after paragraph 2:</td>
</tr>
<tr>
<td></td>
<td>In August 2005, the School wildfire burned approximately, 26,000 acres on Pomeroy Ranger District. The fire burned through the outside edge of the northwest portion of the Asotin LAU. The fire changed about 479 acres of forage habitat (1%) and 363 acres (1%) of denning habitat to an unsuitable condition. As a result of the School Fire lynx habitat changed to 55% foraging, 23% denning, and 22% unsuitable in the Asotin LAU. School Fire did not burn or change the condition of lynx habitat in Upper Charley analysis area. Therefore, effects to lynx habitat in Upper Charley analysis area remain as described previously.</td>
</tr>
<tr>
<td>Chapter IV Pages IV-5 and IV-6</td>
<td>Delete last paragraph on page IV-5. Insert the following paragraphs:</td>
</tr>
<tr>
<td></td>
<td>Cumulative effects in the Asotin LAU resulted in the following habitat: 54% foraging habitat; 23% denning habitat; and 23% unsuitable habitat. Unsuitable habitat would be 7% below the Forest Plan standard that limits the amount of unsuitable habitat in a LAU to no more than 30%, and therefore is consistent with the Forest Plan as amended. Denning habitat would be 13% above the Forest Plan standard that requires a minimum of 10% denning habitat within a LAU, and therefore is consistent with the Forest Plan. Lynx habitat does not occur to the north and west of the Asotin LAU, because vegetation changes to a non-habitat type (dry forest, grassland, etc.). In the School Fire area of the LAU, habitat would be somewhat disconnected (unsuitable) for 15-20 years, until vegetation regenerates to provide cover for lynx movement through the area. Habitat to the south and east of School Fire remains connected to provide movement through the Asotin LAU. Habitat between the Asotin LAU and Wenaha LAU to the south remains connected and unaffected by the proposed action, allowing lynx movement between LAUs. Cumulatively, habitat connectivity would be consistent with the Forest Plan as amended, because connectivity would be maintained, allowing lynx movement through the analysis area, across the Asotin LAU, and between lynx analysis units.</td>
</tr>
<tr>
<td>Chapter and Page</td>
<td>Description of Change</td>
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</tr>
<tr>
<td>The 2% change in habitat since 2000 is currently within the Forest Plan standard that limits changes to habitat by management actions, to no more than 15%, to a unsuitable condition, for a 10 year period, within a LAU. Overall, cumulative effects are consistent with Forest Plan standards and guidelines as amended (Appendix C). Based on cumulative effects; lynx movement, productivity, and mortality would not be affected by proposed activities in alternatives B, C, and E. Therefore, the action does not have an adverse effect on lynx or their habitat and is expected to lead to the conservation of the species (Ruediger et al. 2000).</td>
<td></td>
</tr>
<tr>
<td>Under heading Determination Of Effects for Alternatives B, C, and E insert the following: As a result of School Fire in the Asotin LAU, there would be no change in determination of effects for Canada lynx. Alternatives B, C, and E in Upper Charley Subwatershed Ecosystem Projects EIS, would have a determination of may effect, not likely to adversely affect for Canada Lynx (Johnson 2001).</td>
<td></td>
</tr>
<tr>
<td>Delete paragraph 3 and insert the following: Cumulative effects (including School Fire) in the Asotin LAU resulted in the following habitat: 55% foraging habitat; 23% denning habitat; and 22% unsuitable habitat. Unsuitable habitat would be 7% below the Forest Plan standard that limits the amount of unsuitable habitat in a LAU to no more than 30%, and therefore is consistent with the Forest Plan as amended. Denning habitat would be 13% above the Forest Plan standard that requires a minimum of 10% denning habitat within a LAU, and therefore consistent with the Forest Plan as amended. In School Fire area of Asotin LAU, habitat would be somewhat disconnected (unsuitable) for 15-20 years, until the vegetation regenerates to provide cover for lynx movement through the area. Habitat to the south and east of School Fire remains connected to provide movement through the Asotin LAU. Habitat between Asotin LAU and Wenaha LAU to the south remains connected and unaffected by the proposed action, allowing lynx movement between the LAUs. Cumulatively, habitat connectivity would be consistent with the Forest Plan as amended, because connectivity would be maintained, allowing lynx movement through the analysis area, across the Asotin LAU, and between lynx analysis units. The &lt;1% change in habitat since 2000 is currently within the Forest Plan standard that limits changes to habitat by management actions, to no more than 15%, to an unsuitable condition, for a 10 year period within a LAU. Overall, cumulative effects would be consistent with Forest Plan standards and guidelines.</td>
<td></td>
</tr>
</tbody>
</table>
as amended (Appendix C). Based on cumulative effects, lynx movement, productivity, and mortality would not be affected by proposed activities in Alternative D. Therefore, the action does not have an adverse effect on lynx or their habitat and is expected to lead to the conservation of the species (Ruediger et al. 2000).
Upper Charley Subwatershed
Ecosystem Restoration Projects

Draft Supplemental
Environmental Impact Statement

USDA Forest Service
Pacific Northwest Region

Umatilla National Forest
Pomeroy Ranger District

July 2005

Lead Agency: USDA Forest Service

Responsible Official: Kevin D. Martin, Forest Supervisor
Umatilla National Forest
2517 S.W. Hailey Avenue
Pendleton, Oregon 97801

For Further Information Contact:
Monte Fujishin
District Ranger
Pomeroy Ranger District

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Publication Number F14-POM-10-05
Abstract: Umatilla National Forest, Pomeroy Ranger District, is proposing to supplement the Final Environmental Impact Statement (FEIS) for Upper Charley Subwatershed Ecosystem Restoration Projects and amend the Umatilla National Forest Land and Resource Management Plan to incorporate management direction for Canada lynx, only for the site-specific project called Upper Charley Subwatershed Ecosystem Restoration Projects. This draft supplement will be considered part of the FEIS, and should be viewed as a single document.

Reviewers should provide the Forest Service with their comments during the review period of the draft environmental impact statement. This will enable the Forest Service to analyze and respond to comments at one time and to use information acquired in preparation of the final environmental impact statement, thus avoiding undue delay in the decision making process. Reviewers have an obligation to structure their participation in the National Environmental Policy Act process so that it is meaningful and alerts the agency to the reviewers’ position and contentions. Vermont Yankee Nuclear Power Corp. v. NRDC, 435 U. S. 519, 553 (1978). Environmental objections that could have been raised draft stage may be waived if not raised until after completion of the final environmental impact statement. City of Angoon v. Hodel (9th Circuit, 1986) and Wisconsin Heritages, Inc. v. Harris, 490 F.Supp. 1334, 1338 (E.D. Wis. 1980). Comments on the draft environmental impact statement should be specific and should address the adequacy of the statement and merits of the alternatives discussed (40 CFR 1503.3).

Send Comments to: Kevin D. Martin, Forest Supervisor
Umatilla National Forest
2517 S.W. Hailey Avenue
Pendleton, Oregon 97801

Date Comments Must Be Received: August 22, 2005
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INTRODUCTION

This draft environmental impact statement supplements the Upper Charley Subwatershed Ecosystem Restoration Projects final environmental impact statement (FEIS) released May 2002. With this document the Forest Service is proposing to amend the Umatilla National Forest’s Land and Resource Management Plan to incorporate management for Canada lynx, only for the site-specific project called Upper Charley Subwatershed Ecosystem Restoration Projects.

Availability of a Final Environmental Impact Statement (FEIS) and Record of Decision (ROD) for Upper Charley Subwatershed Ecosystem Restoration Projects was listed in the Federal Register on May 10, 2002 (Vol. 678 No.91 Page 31801). The decision was appealed. On August 29, 2002 the decision was affirmed by the Appeal Deciding Officer and found consistent with applicable laws, regulations, policies and the Forest Plan.

On May 21, 2003 (amended September 22, 2003) Oregon Natural Resources Council Fund (ONRC) filed in the United States District Court of Oregon, Case No: 03-682-KI, a Complaint for Declaratory and Injunctive Relief against Linda Goodman, Regional Forester, Pacific Northwest Region; and United States Forest Service. ONRC claims “The Forest Service has thereby altered the standards and guidelines of the Umatilla and Ochoco Forest Plans with respect to lynx and lynx habitat without amending or revising the Plans, and without public notice, in violation of NFMA” (Complaint for Declaratory and Injunctive Relief, Item 87, Case No: 03-682-KI).

Within Upper Charley Subwatershed Ecosystem Restoration Projects DEIS and throughout the FEIS and ROD, the best science available relating to the management and conservation of Canada lynx was considered and documented (Johnson, 1999 and 2000). Analyses and determinations were based upon the conservation recommendations in the Canada Lynx Conservation Assessment and Strategy (Ruediger et. al., 2000). The United States Fish and Wildlife Service (USFWS) concurred with the determinations (Gobar, 2000) made while consulting on Canada lynx (February 20, 2001). Although there is no defect in the analyses and procedures cited above and although all relevant conservation recommendations to conserve Canada lynx were incorporated in the project design and implementation procedures of the Upper Charley project, an amendment to the Forest Plan to incorporate management direction (objectives, standards, and guidelines) for Canada lynx was not documented.

On August 11, 2004, Forest Supervisor, Jeff Blackwood, decided to amend the Forest Plan and prepare a draft supplemental environmental impact statement. This supplemental statement will provide documentation of a forest plan amendment for Canada lynx in support of the May 2002 Upper Charley Subwatershed Ecosystem Restoration Projects FEIS. Therefore, the two environmental impact statement documents must be thought of and used together as if they are one statement.

The amendment and supplemental environmental impact statement process will follow procedures in 40 CFR 1500-1508 and Forest Service Handbook 1909.15 and 1909.12. This DSEIS will be made available for a 45-day comment period. After considering comments received, Umatilla Forest Supervisor will base his decisions on Upper Charley Subwatershed Ecosystem Restoration Projects FEIS as supplemented by Upper Charley Subwatershed Ecosystem Restoration Projects final supplemental EIS. The Umatilla Forest Supervisor will document his decision in a Record of Decision that will be subject to appeal following procedures described in 35 CFR 215.
LOCATION AND GEOGRAPHIC BOUNDARIES

No Change from FEIS.

PURPOSE AND NEED

Insert in FEIS page S-2 at the beginning of Purpose and Need section.

The Canada Lynx Conservation Assessment and Strategy (Ruediger et. al., 2000), as amended, includes a set of conservation recommendations that are based on the best currently available scientific information about lynx; risks to the species and/or individuals posed by management activities; habitat conditions; and measures that are likely needed to conserve the species. The strategy states in Chapter 7-1 “These measures are provided to assist federal agencies in seeking opportunities to benefit lynx and help to avoid negative impacts through the thoughtful planning of activities. Plans that incorporate them are generally not expected to have adverse effects on lynx, and implementation of these measures across the range of the lynx is expected to lead to conservation of the species.” There is a need to provide management direction for the conservation of Canada lynx during this project and fulfill our obligations under the Endangered Species Act.

The Forest Supervisor proposes to amend the Umatilla National Forest’s Land and Resource Management Plan to incorporate management direction (objectives, standards, and guidelines) for Canada lynx and its habitat, only for the site-specific project called Upper Charley Subwatershed Ecosystem Restoration Projects. Appendix C of this DSEIS provides a detailed listing of the objectives, standards, and guidelines for this amendment.

PUBLIC INVOLVEMENT

Insert in FEIS page S-2 at the end of the Public Involvement section.

A notice to initiate a Forest Plan amendment to incorporate management direction for Canada lynx, only for the site-specific project called Upper Charley Subwatershed Ecosystem Restoration Projects, was published in a Notice of Intent to prepare an Environmental Impact Statement in the Federal Register on August 11, 2004. Comments were solicited in the Notice of Intent, and in scoping letters mailed to interested individuals and organizations (August 11 and 12, 2004).

KEY ISSUES

No change from FEIS.

OTHER ISSUES

Insert in FEIS page S-5 after bullet item entitled Non-Traditional Economic Factors.

Forest Plan Amendment - Amend Umatilla National Forest Plan to incorporate management direction (objectives, standards, and guidelines) for Canada lynx to guide conservation of Canada lynx consistent with new science and Endangered Species Act. Specific management direction would be added to fulfill
our obligations under Endangered Species Act as applied to the site-specific project called Upper Charley Subwatershed Ecosystem Restoration Projects.

----------------------------------------

**ALTERNATIVES CONSIDERED IN DETAIL**

**Alternative B – Proposed Action – Preferred Alternative**

Insert in FEIS page S-6 last paragraph under this heading.

The Forest Plan would be amended to incorporate management direction (objectives, standards, and guidelines) for Canada lynx, only for the site-specific project called Upper Charley Subwatershed Ecosystem Restoration Projects. Appendix C of this DSEIS provides a detailed listing of the objectives, standards, and guidelines for this amendment.

----------------------------------------

**Alternative C – Big Game Habitat**

Insert in FEIS page S-7 last paragraph under this heading.

Forest Plan would be amended as described in Alternative B.

----------------------------------------

**Alternative D – Restoration without Commercial Timber Harvest**

Insert in FEIS page S-7 last paragraph under this heading.

Forest Plan would be amended as described in Alternative B.

----------------------------------------

**Alternative E – Management Activities in Class IV Riparian Habitat Conservation Areas (RHCAs)**

Insert in FEIS page S-8 last paragraph under this heading.

Forest Plan would be amended as described in Alternative B.

----------------------------------------

**Table S-1 COMPARISON OF ALTERNATIVES BY SPECIFIC FEATURES**

Same as FEIS pages S-9 and 10.

----------------------------------------

**Table S-2 COMPARISON OF ALTERNATIVES BY KEY ISSUES AND INDICATORS**

Same as FEIS page S-11.
INTRODUCTION and BACKGROUND

This draft environmental impact statement supplements the Upper Charley Subwatershed Ecosystem Restoration Projects final environmental impact statement (FEIS) released May 2002. With this document the Forest Service is proposing to amend the Umatilla National Forest’s Land and Resource Management Plan to incorporate management for Canada lynx, only for the site-specific project called Upper Charley Subwatershed Ecosystem Restoration Projects.

Availability of a Final Environmental Impact Statement (FEIS) and Record of Decision (ROD) for Upper Charley Subwatershed Ecosystem Restoration Projects was listed in the Federal Register on May 10, 2002 (Vol. 678 No.91 Page 31801). The decision was appealed. On August 29, 2002 the decision was affirmed by the Appeal Deciding Officer and found consistent with applicable laws, regulations, policies and the Forest Plan.

On May 21, 2003 (amended September 22, 2003) Oregon Natural Resources Council Fund (ONRC) filed in the United States District Court of Oregon, Case No: 03-682-KI, a Complaint for Declaratory and Injunctive Relief against Linda Goodman, Regional Forester, Pacific Northwest Region; and United States Forest Service. ONRC claims “The Forest Service has thereby altered the standards and guidelines of the Umatilla and Ochoco Forest Plans with respect to lynx and lynx habitat without amending or revising the Plans, and without public notice, in violation of NFMA” (Complaint for Declaratory and Injunctive Relief, Item 87, Case No: 03-682-KI).

Within Upper Charley Subwatershed Ecosystem Restoration Projects DEIS and throughout the FEIS and ROD the best science available relating to the management and conservation of Canada lynx was considered and documented (Johnson, 1999 and 2000). Analyses and determinations were based upon the conservation recommendations in the Canada Lynx Conservation Assessment and Strategy (Ruediger et al., 2000). The United States Fish and Wildlife Service (USFES) concurred with the determinations (Gobar, 2000) made while consulting on Canada lynx, February 20, 2001). Although there is no defect in the analyses and procedures cited above and although all relevant conservation recommendations to conserve Canada lynx and protect lynx habitat were incorporated in the project design and implementation procedures of the Upper Charley project, an amendment to the Forest Plan to incorporate management direction (objectives, standards, and guidelines) for Canada lynx was not documented.

On August 11, 2004, Forest Supervisor, Jeff Blackwood, decided to amend the Forest Plan and prepare a draft supplemental environmental impact statement. This supplemental statement will provide documentation of a forest plan amendment for Canada lynx in support of the May 2002 Upper Charley Subwatershed Ecosystem Restoration Projects FEIS. Therefore, the two environmental impact statement documents must be thought of and used together as if they are one statement.

The amendment and supplemental environmental impact statement process will follow procedures in 40 CFR 1500-1508 and Forest Service Handbook 1909.15 and 1909.12. This DSEIS will be made available for a 45-day comment period. After considering comments received, Umatilla Forest Supervisor will base his decisions on Upper Charley Subwatershed Ecosystem Restoration Projects FEIS as supplemented by Upper Charley Subwatershed Ecosystem Restoration Projects final supplemental EIS. The Umatilla Forest Supervisor will document his decision in a Record of Decision that will be subject to appeal following procedures described in 35 CFR 215.
Paper copies of Upper Charley Subwatershed Ecosystem Projects FEIS, and this draft supplemental impact statement (DSEIS) are available upon request by contacting Terri Jeffreys at Pomeroy Ranger District (509) 843-4626. The DSEIS can be viewed or downloaded from the following Internet site http://www.fs.fed.us/r6/uma/projects/readroom/.

LOCATION AND OVERVIEW OF THE AREA

No change from FEIS.

Map I –1 Vicinity Map

No change from FEIS.

PURPOSE OF AND NEED FOR ACTION - PROPOSED ACTION

Insert in FEIS Chapter I page 7 following statement number 5.

Forest Plan Amendment

The Canada Lynx Conservation Assessment and Strategy (Ruediger et. al., 2000), as amended includes a set of conservation recommendations that are based on the best currently available scientific information about lynx; risks to the species and/or individuals posed by management activities; habitat conditions; and measures that are likely needed to conserve the species. The strategy states in Chapter 7-1 “These measures are provided to assist federal agencies in seeking opportunities to benefit lynx and help to avoid negative impacts through the thoughtful planning of activities. Plans that incorporate them are generally not expected to have adverse effects on lynx, and implementation of these measures across the range of the lynx is expected to lead to conservation of the species.” There is a need to provide management direction for the conservation of Canada lynx and its habitat during this project and fulfill our obligations under the Endangered Species Act.

The Forest Supervisor proposes to amend the Umatilla National Forest’s Land and Resource Management Plan to incorporate management direction (objectives, standards, and guidelines) for Canada lynx and its habitat, only for the site-specific project called Upper Charley Subwatershed Ecosystem Restoration Projects. Appendix C of this DSEIS provides a detailed listing of the objectives, standards, and guidelines for this amendment.

Table I-1 Summary of Needs and Proposed Action Activities

No change from FEIS.

TIME FRAMES

No change from FEIS.

CONNECTED AND CUMULATIVE ACTIONS

No change from FEIS.

TIERING AND INCORPORATING BY REFERENCE


*Lynx Habitat Management Plan for DNR Managed Lands*, Washington State Department of Natural Resources, November 14, 1996. This habitat management plan adopts a hierarchical approach to accommodate the multi-scaled habitat needs of lynx.


This DSEIS hereby incorporates by reference the project record (hereafter, referred to as the analysis file) [40 CFR 1502.21]. The analysis file contains resource specialist reports and other technical documentation used to support the analysis and conclusions in this EIS. Specialists reports include the following: Soil, Water Quality, Fish, Terrestrial Wildlife, MIS Indicator Species, Vegetation, Fire and Fuels, Air Quality, Roads Analysis, Archeology, TE&S aquatic, terrestrial, and plant species, Economics, and Noxious Weeds. Other sources of information, documents, published studies, and books referred to in the analysis file and this document are also included.

Relying on specialists reports and analysis file helps implement the CEQ Regulations’ provision that agencies should reduce NEPA paperwork (40 CFR 1500.4), that environmental documents shall be analytic rather than encyclopedic, and that EISs/EAs shall be kept concise and no longer than absolutely necessary (40 CFR 1502.2). The objective is to furnish enough site-specific information to demonstrate a reasoned consideration of the environmental impacts of the alternatives and how these impacts can be mitigated, without repeating detailed analysis and background information available elsewhere. The analysis file is available for review at the Pomeroy Ranger District, Pomeroy, Washington.

**Treaty Rights:**

No change from FEIS.

**DECISIONS TO BE MADE**

Chapter I page 11 - Remove first paragraph under this heading and insert following paragraph.

The Umatilla National Forest Supervisor is the Responsible Official for this proposed action and will make the following decisions associated with this Environmental Impact Statement:

Insert in FEIS Chapter I page 12, after last bulleted item.
Upper Charley Draft Supplemental Environmental Impact Statement
Chapter I – Purpose and Need

- Whether or not the Forest Supervisor should amend the Umatilla Land and Resource Management Plan (Forest Plan) and incorporate management direction (objectives, standards, and guidelines) for Canada lynx and its habitat, only for the site-specific project called Upper Charley Subwatershed Ecosystem Restoration Projects.

SCOPE OF THE PROPOSED ACTION

No change from FEIS.

SCOPING

Insert in FEIS Chapter I page 12, after first paragraph under this heading.

The Notice of Intent (NOI) to supplement the Upper Charley Subwatershed Ecosystem Restoration Projects EIS was published in the Federal Register on August 11, 2004 (Federal Register vol. 69, no. 154, pages 48838-48839). The NOI asked for public comment 45 days after publication of the NOI on proposal to amend the Umatilla Forest Plan and incorporate management direction (objectives, standards, and guidelines) for Canada lynx.

KEY ISSUES

No change from FEIS.

OTHER ISSUES

Insert in FEIS Chapter I page 16, after bullet item entitled Non-Traditional Economic Factors.

- **Forest Plan Amendment** - Amend Umatilla National Forest Plan to incorporate management direction (objectives, standards, and guidelines) for Canada lynx, and to guide conservation of Canada lynx and its habitat consistent with new science and Endangered Species Act. Specific management direction would be added to fulfill our obligations under Endangered Species Act as applied to the site-specific project called Upper Charley Subwatershed Ecosystem Restoration Projects.

ORGANIZATION OF THE DEIS

No change from FEIS.
INTRODUCTION

No change from FEIS.

-----------------------------------------------

ALTERNATIVE DEVELOPMENT PROCESS

No change from FEIS.

-----------------------------------------------

ALTERNATIVES CONSIDERED AND NOT ANALYZED IN DETAIL

Insert in FEIS Chapter II page 3 after Alternative G and before Alternatives Considered in Detail.

Alternative H - Incorporate all LCAS Chapter 7 recommendations Forest-wide
In response to public input, the Forest Service considered an alternative that incorporates, forest-wide, all of the recommendations listed in Chapter 7 of the Canada lynx Conservation Assessment and Strategy (LCAS) 2000, as amended, into the forest plan to conserve Canada lynx and its habitat. This alternative would have amended the plan forest-wide and remain in effect until the Forest Plan was revised.

This alternative may have addressed the project-specific purpose and need to provide management direction specific to management of Canada lynx habitat, however, doing so would have required additional analysis of programmatic effects that are outside the scope of this decision. In addition, the Umatilla Forest Plan is currently being revised and expected to be approved by the end of 2007. New information about lynx and any resulting changes in management direction to conserve Canada lynx and its habitat will be considered and blended within the context of the Forest Plan revision process. There is no need to duplicate the effort of the revision process in this site-specific analysis.

For these reasons this alternative was considered but not analyzed in detail.

Alternative I - Do not rely entirely on the LCAS conservation measures to protect lynx
In response to public comment the Forest Service considered incorporating management direction for Canada lynx and its habitat that differs from the conservation recommendations located in Chapter 7 of the LCAS. The LCAS, as amended, includes a set of conservation recommendations that are based on the best currently available scientific information about lynx; risks to the species and/or individuals posed by management activities; habitat conditions; and measures that are likely needed to conserve the species. This assessment and strategy were authored by specialists representing four federal agencies including the USDI Fish and Wildlife Service. The LCAS has been reviewed and modified by the science team in response to new information since it was published in 2000. The LCAS states in Chapter 7-1 “These measures are provided to assist federal agencies in seeking opportunities to benefit lynx and help to avoid negative impacts through the thoughtful planning of activities. Plans that incorporate them are generally not expected to have adverse effects on lynx, and implementation of these measures across the range of the lynx is expected to lead to conservation of the species.”

Various viewpoints concerning lynx habitat and distribution were considered by the authors of the often referenced Ecology and Conservation of Lynx in the United States (Ruggiero et al. 2000) and the Canada Lynx Conservation Assessment and Strategy (LCAS) [Ruediger et al. 2000]. These publications along with subsequent updates and recommendations from the Lynx Steering Committee represents the most creditable and applicable synthesis of science, including various viewpoints concerning the ecology, management, and conservation of lynx and lynx habitat in the contiguous United States. In addition, as
stated in Alternative H above, various management strategies to conserve Canada lynx will be considered and blended within the context of the Forest Plan revision process. There is no need to duplicate the effort of the revision process in this site-specific analysis.

For these reasons alternative strategies to the LCAS were considered but not analyzed in detail.

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**ALTERNATIVES CONSIDERED IN DETAIL**

**Alternative A – No Action (Map II-1)**

No change from FEIS.

Map II-1 - no change from FEIS.

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**Alternative B – Proposed Action - Preferred Alternative (Maps II-2 & II-3)**

**Purpose and Design:**

Insert in FEIS Chapter II page 5, last paragraph under this heading.

The Forest Plan would be amended to incorporate management direction (objectives, standards, and guidelines) taken from conservation measures located in Chapter 7 of the LCAS, as amended. Objectives would be incorporated into the Forest Plan on page 4-29 below Table 4-10 and above the paragraph starting with “Biological evaluation…” Standards and guidelines would be incorporated into the Forest Plan on page 4-91, bottom of the page following Peregrine Falcon Habitat, with a heading for Canada lynx. This amendment would apply only for the duration of, and to those actions proposed in lynx habitat for the site-specific project called Upper Charley Subwatershed Ecosystem Restoration Projects. (See Appendix C - Lynx Management Direction, for a listing of objectives, standards, and guidelines.)

Maps II-2 and II-3 - no change from FEIS.

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**Alternative C - Big Game Habitat (Maps II-4 & II-5)**

**Purpose and Design:**

Insert in FEIS Chapter II page 14, last paragraph under this heading.

Forest Plan would be amended as described in Alternative B.

Maps II-4 and II-5 – no change from FEIS.

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**Alternative D – Restoration without Commercial Timber Harvest (Maps II-6 & II-7)**

**Purpose and Design:**
Insert in FEIS Chapter II page 20, last paragraph under this heading.

Forest Plan would be amended as described in Alternative B.

Maps II-6 and II-7 – no change from FEIS.

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Alternative E – Management Activities included in Class IV RHCAs (Maps II-8 and II-9)

Purpose and Design:

Insert in FEIS Chapter II page 25, last paragraph under this heading.

Forest Plan would be amended as described in Alternative B.

Maps II-8 and II-9 – no change from FEIS.

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MITIGATION, MANAGEMENT REQUIREMENTS, AND DESIGN FEATURES

Table II-1 Mitigation, Management Requirements, and Design Features

No change from FEIS.

MONITORING

No change from FEIS.

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COMPARISON OF ALTERNATIVES BY ISSUE

No change from FEIS.

Table II-2 Comparison of Alternatives by Specific Features

No change from FEIS.

Table II-3 Comparison of Alternatives by Key Issues and Indicators

No change from FEIS.
INTRODUCTION
No change from FEIS.

MANAGEMENT AREA DIRECTION
No change from FEIS.

PHYSICAL FACTORS

LOCATION
No change from FEIS.

GEOLOGY
No change from FEIS.

CLIMATE
No change from FEIS.

There would be no change to affected environment as described in the FEIS for the following resources:

SOIL

WATER QUALITY/FISH HABITAT

FIRE and FUELS and AIR QUALITY

RANGE

TRANSPORTATION – ROADS

BIOLOGICAL FACTORS

There would be no change to affected environment as described in the FEIS for the following resources:

ECOSYSTEM SUSTAINABILITY - VEGETATION

NOXIOUS WEEDS
Historic occurrence of lynx in the Blue Mountains (SE Washington and NE Oregon) is suspect. From the late 1800’s to 1980 there are only five specimen records from the Blue Mountains. One of which occurred (1931) near Mt. Misery in Garfield County, Washington and the remainder occurred in anomalous habitat (grasslands/shrubs). It has been well noted (Verts and Carraway 1998, McKelvey et al. 2000 and Stinson 2001) that the dates of those occurrences correspond with peaks in the lynx population in western Canada; that could have produced a pulse of dispersing individuals when prey was scarce. More recently (<20 years) incidental observations of lynx have occurred sporadically in the Blue Mountains. Most of the observations on the Forest have occurred between Weston and Elgin along State Route 204, particularly in the vicinity of Tollgate, Oregon. However, during snow-tracking surveys conducted for forest carnivores (wolverine, marten, lynx, etc.) from 1992-1995, lynx tracks were not observed on a route south and west of the analysis area or on other routes across the Forest. During the summer of 1999, hair-snag surveys were conducted across the Forest (including Pomeroy and Walla Walla Districts) in coordination with the Fish and Wildlife Service. Twelve (12) hair-snag stations were placed both in and adjacent to the Upper Charley analysis area. As a result of this effort, 22 hair samples were sent to the University of Montana for DNA analysis. Thirteen (13) of the samples were from black bear, 5 from coyotes, 2 from bobcat, and 2 “other” (not Felid spp. (report from the University of Montana dated 9/22/00). None of the stations in the vicinity of the Upper Charley analysis area or across the Forest detected lynx. In addition, the hair-snag method identified in the National Lynx Detection Protocol (McKelvey, et al. 1999) was conducted on the North Fork John Day Ranger District from 1999 to 2001. The DNA analysis of hair collected from hair-snag stations showed that none of the collected hairs were from lynx. The “National Protocol” was also conducted during the same time period on Forests (Wallowa-Whitman and Malheur NF) adjacent to the Umatilla National Forest, and none of the stations on adjacent Forests detected lynx.

Based on limited verified records of lynx, lack of reproductive records, low frequency of occurrences, and correlations with cyclic lynx populations in Canada, lynx are considered dispersers/transients and not reproducing residents in the Blue Mountains of SE Washington and NE Oregon (Verts and Carraway 1998, McKelvey et al. 2000, Stinson 2001, and USFW 2003); including the Upper Charley analysis area.

The distribution of Canada lynx is predominately tied to boreal forest types of Canada (Koehler and Aubry 1994). Peninsula extensions of the boreal forest occur in the western mountains of the United States. Component of boreal forest include subalpine fir, Engelmann spruce, and lodgepole pine as major seral species (Agee 2000 and Aubry et al. 2000). For the Interior Columbia Basin Ecosystem Management Project (ICBEMP), Wisdom et al. (2000) generally describes primary habitat for lynx as subalpine fir and montane forests that have cold or moist forest types. Source habitat included subalpine fir, Engelmann spruce, interior Douglas-fir, western larch, lodgepole pine, and grand fir forest types (Wisdom et al. 2000). However, in western United States (Montana, Washington, and Wyoming) where lynx are known to occur in study areas, subalpine fir, Engelmann spruce and lodgepole pine occupy a
large portion of study areas (Aubry 2000 and Stinson 2001). Where drier vegetation types such as ponderosa pine or Douglas-fir occurred in these study areas, they were generally avoided by lynx (Squires and Laurion 2000, Ruediger et al. 2000, and USDA Forest Service, Memo 2001). Therefore, in this analysis primary vegetation that contributes to lynx habitat includes subalpine fir habitat types, where lodgepole pine is a major seral species, generally between 4,100-6,600 feet in elevation (Verts and Carraway 1998, Ruggiero et al. 2000, Ruediger et al. 2000, Gobar 2003, and NatureServe 2005). Secondary vegetation, when interspersed or adjacent with subalpine forest may also contribute to lynx habitat, this includes (cool) moist grand fir and moist Douglas-fir habitat types (Ruggiero et al 2000, Squires and Laurion 2000, Ruediger et al. 2000, USDA Forest Service, Memo 2001, and Gobar 2003).

Snowshoe hare is the primary prey species for lynx. Forest types that support snowshoe hare include lodgepole pine, subalpine fir, and Engelmann spruce. Lodgepole pine is an important browse species for hares in the western U.S. Within lynx habitat, lynx forage in early to mid-successional stages, where snowshoe hare generally occur in high numbers (Koehler and Aubry 1994, McKelvey, Aubry, and Ortega 2000, Ruediger et al. 2000, and Stinson 2001). Lynx habitat in late successional stages with large woody debris are generally used for denning, rearing young and hunting alternate prey species like red squirrels (Koehler and Aubry 1994, McKelvey, Aubry, and Ortega 2000, Ruediger et al. 2000, and Stinson 2001). Natal denning habitat (downwood debris) can also occur in young stands of lynx habitat (Ruediger et al. 2000 and Stinson 2001). Lynx habitat currently in an unsuitable condition includes early successional stages that have not developed sufficiently to support snowshoe hare populations during all seasons.

Various viewpoints concerning lynx habitat and distribution were considered by the authors of the often referenced Ecology and Conservation of Lynx in the United States (Ruggiero et al. 2000) and the Canada Lynx Conservation Assessment and Strategy (LCAS) [Ruediger et al. 2000]. These publications along with subsequent updates and recommendations from the Lynx Steering Committee represents the most creditable and applicable synthesis of science concerning the ecology, management and conservation of lynx and lynx habitat in the contiguous United States.

Lynx habitat occurs in the higher elevations of Upper Charley analysis area. Habitat within Upper Charley analysis area also occurs within the Asotin Lynx Analysis Unit (LAU) on the Forest. Lynx habitat, mapped in Upper Charley analysis area, was field verified in 1999-2000 by the District Biologist (Johnson 1999/2000). Field verification resulted in a change in the amount of lynx habitat for the Upper Charley analysis area and Asotin LAU, and the proportion of habitat in foraging, denning and unsuitable condition (Johnson 1999/2000 and Johnson 2001). Changes to maps, based on field verification, were documented in the Upper Charley Analysis Area Lynx Habitat Report (Johnson 1999/2000) and Biological Assessment of the Upper Charley Ecosystem Restoration Projects on North American Lynx Habitat in the Asotin Lynx Analysis Unit (Johnson 2001). Table III-19A displays the current amount and condition of lynx habitat in the Upper Charley analysis area and Asotin LAU.

Table III-19A - Lynx Habitat in the Upper Charley Analysis area and Asotin Lynx Analysis Unit.

<table>
<thead>
<tr>
<th>Analysis Area</th>
<th>Units</th>
<th>Foraging Habitat</th>
<th>Denning Habitat</th>
<th>Unsuitable Habitat</th>
<th>Total Lynx Habitat</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asotin LAU</td>
<td>Acres</td>
<td>23,217</td>
<td>9,866</td>
<td>8,363</td>
<td>41,446</td>
</tr>
<tr>
<td></td>
<td>Percent</td>
<td>56%</td>
<td>24%</td>
<td>20%</td>
<td>100%</td>
</tr>
<tr>
<td>Upper Charley</td>
<td>Acres</td>
<td>712</td>
<td>0</td>
<td>379</td>
<td>1,091</td>
</tr>
<tr>
<td></td>
<td>Percent</td>
<td>&lt;2%</td>
<td>0%</td>
<td>1%</td>
<td>&lt;3%</td>
</tr>
</tbody>
</table>

1 Percentages are based on the Total Lynx Habitat acreage for the Asotin LAU.
From the 7,650 acres in the Upper Charley analysis area, approximately 1,091 acres are considered lynx habitat. Seven hundred twelve (712) acres are considered foraging habitat and 379 acres are in an unsuitable condition. Denning habitat does not currently occur in Upper Charley analysis area. Lynx habitat in Upper Charley analysis area is about 3% of the lynx habitat in the Asotin LAU. In the Asotin LAU, 56% of the lynx habitat is considered forage habitat, 24% denning habitat, and 20% is in an unsuitable condition. Since 2000, and prior to this analysis, approximately 210 acres (< 1%) of lynx habitat in the LAU was changed from a suitable condition to an unsuitable condition. Habitat in Upper Charley analysis area is connected to habitat in the Asotin LAU. Linkage areas do not occur in the analysis area or the Asotin LAU, because highways or private land inholding do not interrupt habitat connectivity in the LAU. The Asotin LAU occurs entirely within the Umatilla National Forest Lands. Therefore linkage areas would not be affected by the proposed action.

To evaluate and measure the effects of the proposed actions to lynx habitat the following criteria will be used;
- Changes in foraging/unsuitable habitat in the Charley Analysis area.
- Percent of forage habitat in the Asotin LAU.
- Percent of habitat in an “unsuitable” condition in the Asotin LAU.
- Percent of unsuitable habitat changed from a suitable condition (forage and denning) in the Asotin LAU, since the Canada Lynx was listed in 2000.

Denning habitat will not be evaluated or measured because denning habitat does not occur in the Upper Charley analysis area and therefore will not be affected by the proposed actions.

**THREATENED, ENDANGERED AND SENSITIVE PLANT SPECIES**
No change from FEIS.

**RECREATION**
No change from FEIS.

**ECONOMIC FACTORS**

**NON-TRADITIONAL ECONOMIC FACTORS - QUALITATIVE RESOURCES**
No change from FEIS.
INTRODUCTION

No change from FEIS.

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PHYSICAL FACTORS

There would be no change to environmental effects from implementing Alternatives A, B, C, D, or E as described in the FEIS for the following resources:

EFFECTS OF THE ALTERNATIVES ON SOIL RESOURCES

EFFECTS OF THE ALTERNATIVES ON WATER QUALITY/FISH HABITAT

EFFECTS OF THE ALTERNATIVES ON FIRE and FUELS and AIR QUALITY

EFFECTS OF THE ALTERNATIVES ON RANGE

EFFECTS OF THE ALTERNATIVES ON TRANSPORTATION – ROADS

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BIOLOGICAL FACTORS

There would be no change to environmental effects from implementing Alternatives A, B, C, D, or E as described in the FEIS for the following resources:

EFFECTS OF THE ALTERNATIVES ON ECOSYSTEM SUSTAINABILITY – VEGETATION

EFFECTS OF THE ALTERNATIVES ON NOXIOUS WEEDS

EFFECTS OF THE ALTERNATIVES ON BIG GAME (ELK) HABITAT

EFFECTS OF THE ALTERNATIVES ON MANAGEMENT INDICATOR SPECIES and NEOTROPICAL BIRDS

EFFECTS OF THE ALTERNATIVES ON THREATENED, ENDANGERED OR SENSITIVE AQUATIC SPECIES

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EFFECTS OF THE ALTERNATIVES ON THREATENED, ENDANGERED AND SENSITIVE TERRESTRIAL SPECIES
In the FEIS remove text and tables beginning with the second paragraph (Approximately 2,653 acres of the ….) in Chapter IV on page 46 through to page 49. Insert the following text and tables:

EFFECTS COMMON TO ALL ALTERNATIVES

Direct Effects
Canada lynx is not known to occur in the Upper Charley analysis area or Asotin LAU, and are considered dispersers/transients to the Blue Mountains. Given the lack of occurrence in the analysis area, lynx movement, productivity, and mortality would not be affected. Therefore, lynx would not be adversely affected by the proposed action in the alternatives.

NO ACTION – ALTERNATIVE - A

Direct and Indirect Effects
With the current management direction in the Upper Charley analysis area, lynx habitat would remain essentially unchanged for the short term (< 10 years). Vegetation in the analysis area would continue to grow and develop but not substantially to affect a change in lynx habitat condition in Upper Charley analysis area. Therefore, no change in lynx habitat condition in Upper Charley analysis area would result, and there also would be no change in habitat condition in the Asotin LAU. As identified in Table IV-15, foraging habitat would remain at 56%, denning habitat at 24%, and unsuitable habitat at 20% for the Asotin LAU. The amount of habitat changing from a suitable condition to an unsuitable condition, since 2000, would remain at <1% for the Asotin LAU. Connectivity between stands of lynx habitat in Upper Charley analysis area and across the Asotin LAU would be maintained in its current condition.

Table IV-15 Comparison of Lynx Habitat Condition in the Asotin LAU for Each Alternative

<table>
<thead>
<tr>
<th>Alternative</th>
<th>Unit</th>
<th>Foraging Habitat</th>
<th>Denning Habitat</th>
<th>Unsuitable Habitat</th>
<th>Total Lynx Habitat</th>
</tr>
</thead>
<tbody>
<tr>
<td>A (No Action)</td>
<td>Acres</td>
<td>23,217</td>
<td>9,866</td>
<td>8,363</td>
<td>41,446</td>
</tr>
<tr>
<td>B</td>
<td>Acres</td>
<td>22,830</td>
<td>9,866</td>
<td>8,750</td>
<td>41,446</td>
</tr>
<tr>
<td>C</td>
<td>Acres</td>
<td>22,970</td>
<td>9,866</td>
<td>8,610</td>
<td>41,446</td>
</tr>
<tr>
<td>D</td>
<td>Acres</td>
<td>23,217</td>
<td>9,866</td>
<td>8,363</td>
<td>41,446</td>
</tr>
<tr>
<td>E</td>
<td>Acres</td>
<td>22,857</td>
<td>9,866</td>
<td>8,723</td>
<td>41,446</td>
</tr>
</tbody>
</table>

1 Percentages are based on the total amount of lynx habitat in the Asotin LAU (41,446 ac.).

Based on current management direction overtime (>10 years), the vegetative composition and forest structure could change resulting in a change in lynx habitat condition in Upper Charley analysis area. Most likely, over the next 10-20 years, the amount of forage habitat could increase and unsuitable habitats could decrease. This could occur because previously harvested stands (unsuitable) would regenerate and grow into young pole stands that provide habitat for lynx to forage on snowshoe hare. With the potential increase of 379 acres of forage habitat (Table III-19A) in the Upper Charley analysis area, the amount of forage habitat in the LAU could increase by 1%. As a result natural tree mortality and/or sporadic insect or disease outbreaks dead standing and downwood could increase slightly, although not measurably during this period of time, in the analysis area potentially creating denning habitat. As a result of potential changes in vegetation structure in the Upper Charley analysis area forage habitat could increase to 57%, denning habitat would remain near 24%, and unsuitable habitat could decrease to 19% for the Asotin LAU. The amount of unsuitable habitat in the LAU is well below the amended Forest Plan
standard that limits the amount of unsuitable habitat in a LAU to no more than 30%. The amount of habitat changing from a suitable condition to an unsuitable condition would remain at <1%, since 2000 for the LAU. This is consistent with the amended Forest Plan standard requiring no more than 15% of suitable lynx habitat changing to an unsuitable condition for a 10-year period, within a LAU. Connectivity between stands of lynx habitat in the Upper Charley analysis area and the Asotin LAU could also improve with the growth and development of previously unsuitable stands of lynx habitat.

A major wildfire or large insect epidemic across the landscape could also change the composition and forest structure in the Upper Charley analysis area to an open grass/shrub condition with little or no tree cover. Essentially, 712 acres of forage habitat (Table III-19A) could change to an unsuitable habitat condition in the analysis area. Some amount of dead standing and downwood, resulting from the disturbance, could remain potentially providing denning habitat at some point in the future (>20 years after the disturbance). As a result of these potential changes in the Upper Charley analysis area, forage habitat could decrease to 54%, denning habitat would remain near 24%, and unsuitable habitat could increase to 22% for the Asotin LAU. The amount of unsuitable habitat in the LAU would be consistent with the amended Forest Plan standard limiting the amount to no more than 30%. A major disturbance would not be considered a management action in the analysis area and therefore the amount of lynx habitat changed from a suitable to unsuitable condition in the Asotin LAU would remain at <1%, since 2000. This is consistent with the amended Forest Plan standard requiring no more than 15% for a 10-year period, within a LAU. Connectivity could initially be eliminated in the Upper Charley analysis area if a large disturbance occurred in the area. However, lynx habitat in the Upper Charley analysis area occurs as the northern outer edge of lynx habitat in the Asotin LAU and therefore connectivity could be maintained to the south, around the analysis area. Lynx habitat stands outside the analysis area could remain undisturbed and therefore connected across the Asotin LAU.

**ACTION ALTERNATIVES - B, C, and E**

*Direct and Indirect Effects Common to Alternatives B, C, and E*

Proposed harvest treatments within lynx habitat in the Upper Charley analysis area would convert about 1% (247-387 ac.) of foraging habitat to an unsuitable condition. Harvesting would open the canopy enough, to allow the development of a dense understory of shade tolerant tree species. Shade tolerant tree species like subalpine fir, Engelmann spruce, and grand fir, are preferred by snowshoe hare as forage species. The less preferred, Western larch would be retained only if insufficient numbers of preferred tree species were not present. Trees remaining within the unit after harvest could potentially provide habitat for alternate prey species (squirrels, chipmunks, etc.) allowing lynx to forage in the area. The unsuitable habitat condition is expected to last 15-20 years at which time the developing understory would reach sufficient height (i.e., >8-10’ tall) and density to provide snowshoe hare habitat.

Fuels treatments within harvest units include grapple piling and jackpot prescribed burning (HJP) to reduce slash created from harvest activities. Fuels (fine and coarse) would be grapple piled in open areas to minimize mortality to the residual overstory when the unit is burned. Jackpot burning would be limited to slash piles in order to maintain the overstory, understory, and downed logs of spruce and fir in harvested units. In addition, jackpot burning and/or scattered slash concentrations burned could provide suitable conditions to open serotinous lodgepole pine cones and encourage the development of desirable snowshoe hare winter forage species in the understory.

Within harvest units that have ground based skidding adjacent to foraging habitat; down and/or cull logs would be loosely grapple piled and not burned to provide potential denning structures. These jackstraw log piles could eventually develop into lynx denning habitat in 20-25 years, once the unit has developed
into forage habitat. Currently, denning habitat is not a component of lynx habitat in the Upper Charley analysis area.

Proposed road management activities including, reconstruction and obliteration (system and temporary), would occur within/adjacent to lynx habitat in the Upper Charley analysis area. These roads are considered unsuitable habitat because of the lack of vegetative cover that could provide forage habitat. After reconstruction and obliteration, these roads are expected to remain in an unsuitable condition. Eventually (>15 years), obliterated road would re-vegetate and blend into adjacent forest cover and provide suitable lynx habitat (forage/denning). Snowmobile use and resultant snow compaction is expected to be at pre-harvest levels, because additional snow trail grooming would not occur in the area to increase use and snow compaction. Overall road density in Upper Charley analysis area would be reduced slightly (UCSEP-DEIS, page IV-21) as a result of proposed road management activities. A reduction in road density in the Upper Charley analysis area would also result in a slight reduction in road density in the Asotin LAU.

Lynx may avoid moving though some harvested areas like shelterwood, however, movement could occur around treated stands where habitat connectivity is maintained. Other treatments like thinning could facilitate lynx movement because; the majority of the overstory would be maintained providing cover and habitat for alternate prey species. In addition, uneven-aged management could also allow lynx movement through the unit because the 2-acre openings resulting from the treatment would maintain the distance to cover to less than 325 feet (Koehler 1990). Any potential reduction in habitat connectivity through a treated stand would be restored within 10-15 years, when vegetation reaches sufficient height to provide cover for lynx movement.

Table IV-15 displays the effects of proposed activities to lynx habitat in the Asotin LAU for alternatives B, C, and E. Overall, the amount of foraging habitat in the Asotin LAU would decrease by 1% and unsuitable habitat would increase by 1%; resulting in 55% forage habitat and 21% unsuitable habitat in the LAU for alternative B, C, and E. The amount of unsuitable habitat in the Asotin LAU is consistent with the Forest Plan because 21% unsuitable habitat is 9% below amended Forest Plan standard that limits unsuitable habitat to no more than 30% in a LAU. Denning habitat could eventually occur (>10 years) in the analysis area, but currently does not occur in Upper Charley analysis area. Therefore, denning habitat is not affected by proposed activities and remains at 24% in the Asotin LAU for all alternatives (Table IV-15). The amount of denning habitat in the Asotin LAU is consistent with the Forest Plan because 24% denning habitat is 14% above the amended Forest Plan standard that requires a minimum of 10% within a LAU. Lynx habitat in Upper Charley analysis remains connected to habitat in the Asotin LAU. Habitat connectivity would be maintained in its current condition in the remaining portion of the Asotin LAU. Therefore, habitat connectivity in the Upper Charley analysis area is consistent with the Forest Plan standards and guidelines as amended. As a result of management actions in the Charley analysis area, 1% of lynx habitat changed from a suitable to unsuitable habitat condition in the Asotin LAU for the proposed activities in alternatives, B, C, and E. Overall, the direct and indirect effects of the proposed activities in alternative B, C, and E, and consistency with the Forest Plan as amended; lynx movement, productivity, and mortality would not be affected. Therefore, the action does not have an adverse effect on lynx or their habitat and is expected to lead to the conservation of the species (Ruediger et al. 2000).

The incorporation of objectives, standards, and guidelines into the Umatilla Forest Plan specific to Canada lynx is specific to the purpose and need and actions in the alternatives for the Upper Charley project only. This amendment would not preclude or require other amendments specific to lynx and this amendment would not preclude or require other action across the forest in lynx habitat. For example, the incorporation of this management direction would not affect the amount of timber made available for
public use outside this project area nor would there be changes in livestock grazing and recreation permits or plans of operations for mining. This amendment would not change or require future changes to the access and travel management plan for the Ranger District.

Cumulative Effects for Alternatives B, C, and E

Past management activities (timber harvest, fire suppression, etc.) and natural disturbances (wind throw, wildfire, insect/disease, etc.) have lead to the current condition and distribution of habitat in the Asotin LAU. This has resulted in 56% of the LAU in foraging habitat, 24% in denning, and 20% in unsuitable condition (Table III-19A). Since 2000, past management actions in the LAU have resulted in 210 acres (<1%) of lynx habitat changing from a suitable to an unsuitable habitat condition.

Table IV-15 shows the expected change in the lynx habitat condition in the Asotin LAU for each alternative. When compared to the “No Action” alternative (A), forage habitat decreases by 1% and unsuitable habitat increase by 1% as a result of the proposed timber harvest and prescribe burning occurring in alternatives B, C, and E. In addition, proposed road obliteration for each alternative would not change suitable habitat to an unsuitable condition. Therefore, the amount of unsuitable habitat in the Asotin LAU would increase to 21% as a result of past and proposed actions in the LAU. Denning habitat does not occur in the Upper Charley analysis area and therefore would not change and remain at 24% in the Asotin LAU. Habitat connectivity would be maintained, either through treated units or around treated units allowing lynx movement through the area. Lynx habitat in the Upper Charley analysis remains connected to habitat in the Asotin LAU. Habitat between the Asotin LAU and the Wenaha LAU to the south would not be affected by current actions, since the Upper Charley analysis area occurs on the northern edge of the Asotin LAU. Therefore, habitat connectivity is consistent with the amended Forest Plan. Based on the proposed management actions in the Charley analysis area, 1% of suitable habitat (foraging) would change to an unsuitable condition. Prior to the Upper Charley analysis, <1% of lynx habitat changed from suitable to an unsuitable condition in the Asotin LAU. Together with present and past management action in the LAU, 2% of lynx habitat in the LAU would have changed from a suitable to an unsuitable condition, since the listing of Canada Lynx in 2000.

Proposed future vegetative altering projects that could occur in the Asotin LAU include Lower Tucannon Ecosystem Management Project, Peola Cattle and Horse Grazing Allotment, and South Prescribed Fire Project. Potential vegetative treatments are not expected to occur in lynx habitat or move lynx habitat to an unsuitable condition. No other reasonable foreseeable future actions that could manipulate lynx habitat are expected to occur in Asotin LAU. Therefore, no additional effects are expected to change lynx habitat in the LAU.

Based on cumulative affects of past, present, and future actions in Asotin LAU, foraging habitat would consist of 55%, denning habitat would remain unchanged at 24%, and unsuitable habitat would occur at 21%. Therefore, unsuitable habitat would be 9% below the amended Forest Plan standard that limits the amount of unsuitable habitat in a LAU to no more than 30%, therefore, is consistent with the amended Forest Plan. Denning habitat is 14% above the amended Forest Plan standard that requires a minimum of 10% denning habitat within a LAU, and therefore is consistent with the amended Forest Plan. Habitat connectivity would be maintained, in the area allowing lynx movement through the analysis area and across the Asotin LAU. Habitat connecting the Asotin LAU with the Wenaha LAU to the south would not be affected by past, present, and future actions, therefore, habitat connectivity is consistent with the amended Forest Plan. The 2% change in habitat since 2000 is currently within the amended Forest Plan standard that requires no more than 15% of the lynx habitat, in an unsuitable condition for a 10 year period, within a LAU. Overall, cumulative effects are consistent with Forest Plan standards and guidelines as amended (Appendix C – Lynx Management Direction). Based on cumulative effects; lynx movement, productivity, and mortality would not be affected by proposed activities in alternatives B, C, and E.
Therefore, the action does not have an adverse effect on lynx or their habitat and is expected to lead to the conservation of the species (Ruediger et al. 2000).

Because the amendment only applies to lynx habitat within Upper Charley analysis area for the duration of that project there are no other required changes in the Forest Plan, or required actions across the forest in other areas within lynx habitat. Incorporation of this management direction would not cumulatively affect the amount of timber made available for public use nor would there be changes in livestock grazing and recreation permits or plans of operations for mining in other areas of the forest because there are not direct and indirect impacts to these resources anticipated. This amendment would not change or require future changes to access and travel management plans. All other cumulative effects of amending the Forest Plan for lynx are as described for direct and indirect effects.

Determination Of Effects for Alternatives B, C, and E

The vegetative resource management actions proposed within lynx habitat, for alternatives B, C, and E in the Upper Charley Subwatershed Ecosystem Projects EIS, would have a determination of may effect, not likely to adversely affect for the Canada Lynx (Johnson 2001). This determination is based on the following rational (Johnson 2001):

- Proposed timber harvest, prescribed burning, and road obliteration actions would convert approximately one (1) percent of suitable (foraging) lynx habitat to an unsuitable habitat condition. This would put the amount of unsuitable habitat in the Asotin LAU at 21%, which is well below the 30% minimum in the identified in the amended Forest Plan.
- The amount of unsuitable habitat expected to change from suitable to unsuitable, since Canada Lynx listing in 2000, is 2% of the lynx habitat in the Asotin LAU. This is 13% below the maximum identified in the amended Forest Plan.
- Denning habitat would not be affected, because denning habitat does not occur in Upper Charley analysis area. The potential for denning habitat to occur in the future could occur from the creation of numerous log piles being created adjacent to foraging habitat.
- Pre-commercial thinning would not occur in lynx habitat.
- Proposed harvest and burning actions are designed to maintain or enhance snowshoe hare habitat and therefore, consistent with the amended Forest Plan.

A summary of the completed Biological Findings for proposed actions within the Upper Charley analysis area is presented in Table IV-16.

**ACTION ALTERNATIVE - D**

**Direct and Indirect Effects**

Within the Charley analysis area, 242 acres of lynx habitat would be prescribed burning to reduce fuel loading. Mechanical treatment of heavy fuel concentrations would not occur in lynx habitat. Commercial harvest would not occur in this alternative. Prescribe burning would take place over a 10-15 year period. Prescribe burns would be understory burns with low flame lengths to maintain the existing overstory structure and composition. After the burn, the units would appear as mosaics of burned and unburned areas. Existing fir and spruce trees would be maintained in the units. The burn could consume saplings and seedlings and small diameter downed logs. However, the prescribed burning would also provide suitable conditions to open serotinous lodgepole pine cones and to encourage the establishment of
desirable snowshoe hare forage species in the understory. Ultimately, a young healthy stand of saplings would develop and eventually (>15 years) provide quality winter habitat for snowshoe hare.

Prescribe burns would occur in foraging habitat. Because of the low intensity, mosaic burn occurring in the proposed units, the forage condition is expected to remain unchanged. After treatment, stands (242 acres) are expected to provide lynx habitat suitable for foraging. The proposed prescribe burn in lynx habitat would not change suitable lynx habitat to unsuitable habitat in the Charley analysis area.

Table IV-15 displays the effects of proposed activities to lynx habitat in the Asotin LAU for alternatives D. Overall, lynx habitat in the Upper Charley analysis area would remain at 2% foraging and 1% unsuitable. Denning habitat would not be affected by the action, because it does not occur in the analysis area.

The amount of unsuitable habitat in the Asotin LAU is consistent with the Forest Plan because 20% unsuitable habitat is 10% below the amended Forest Plan standard that limits unsuitable habitat to no more than 30% in a LAU. Denning habitat could eventually occur (>10 years) in the analysis area, but currently does not occur in the Upper Charley analysis area. Therefore, denning habitat is not affected by the proposed activities, and remains at 24% in the Asotin LAU (Table IV-15). The amount of denning habitat in the Asotin LAU is consistent with the Forest Plan because 24% denning habitat is 14% above the amended Forest Plan standard that requires a minimum of 10% within a LAU. Lynx habitat in the Upper Charley analysis remains connected to habitat in the Asotin LAU. Habitat connectivity would be maintained in its current condition in the remaining portion of the Asotin LAU. Therefore, habitat connectivity in the Upper Charley analysis area is consistent with the Forest Plan standards and guidelines as amended. As a result of management actions in Upper Charley analysis area, 0% of lynx habitat changed from a suitable to unsuitable habitat condition in the Asotin LAU for proposed Alternative D. Overall, direct and indirect effects of Alternative D, and consistency with the Forest Plan as amended; lynx movement, productivity, and mortality would not be affected. Therefore, the action does not have an adverse effect on lynx or their habitat and is expected to lead to the conservation of the species (Ruediger et al. 2000).

Cumulative Effects

Past management activities (timber harvest, fire suppression, etc.) and natural disturbances (wind throw, wildfire, insect/disease, etc.) have lead to the current condition and distribution of habitat in the Asotin LAU. This has resulted in 56% of the LAU in foraging, 24% in denning, and 20% in unsuitable (Table III-19A) habitat condition. Since 2000, past management actions in the LAU have accumulated 210 acres (<1%) of lynx habitat changing from a suitable to an unsuitable habitat condition.

Table IV-15 shows the expected change in the lynx habitat condition in the Asotin LAU for Alternative D. When compared to the “No Action” Alternative (A), forage habitat and unsuitable habitat did not change, as a result of proposed prescribe burning in the Upper Charley analysis area. In addition, proposed road obliteration is not expected to change suitable habitat to an unsuitable condition. Therefore, the amount of unsuitable habitat in the Asotin LAU would increase to 21% as a result of past and proposed actions in the LAU. Denning habitat could eventually occur (>10 years) in the analysis area, but currently does not occur in the Upper Charley analysis area. Therefore, denning habitat would not change and remain at 24% in the Asotin LAU as a result of past and proposed actions. Habitat connectivity would be maintained, through and around treated units, allowing lynx movement across the area. Lynx habitat in Upper Charley analysis area remains connected to habitat in the Asotin LAU. Habitat between the Asotin LAU and the Wenaha LAU to the south would not be affected by current actions, since Upper Charley analysis area occurs on the northern edge of the Asotin LAU. Therefore, habitat connectivity is consistent with the amended Forest Plan. Based on proposed management action in Upper Charley analysis area, suitable habitat (foraging) is not expected to change to an unsuitable
condition. Prior to Upper Charley analysis, <1% of lynx habitat changed from suitable to an unsuitable condition in the Asotin LAU. Together with present and past management action in the LAU, <1% of the lynx habitat in the LAU would have changed from a suitable to an unsuitable condition, since the listing of Canada Lynx in 2000.

Future vegetative manipulation projects that could occur in the Asotin LAU include the Lower Tucannon Ecosystem Management Projects. Potential vegetative treatments in the Tucannon watershed are not expected to include timber harvest or prescribe burning in that portion of the Asotin LAU containing lynx habitat. No other reasonable foreseeable future actions that could manipulate lynx habitat are expected to occur in the Asotin LAU. Therefore, no additional effects are expected to change lynx habitat in the LAU.

Based on cumulative effects of past, present, and future actions in the Asotin LAU, foraging habitat would consist of 56% of the LAU, denning habitat would remain unchanged at 24%, and unsuitable habitat would occur at 20%. Therefore, unsuitable habitat would be 10% below the amended Forest Plan standard that limits the amount of unsuitable habitat in a LAU to no more than 30%, and therefore is consistent with the Forest Plan. Denning habitat is 14% above the amended Forest Plan standard that requires a minimum of 10% denning habitat within a LAU, and therefore is consistent with the amended Forest Plan. Habitat connectivity would be maintained, in the area allowing lynx movement through the analysis area and across the Asotin LAU. Habitat connecting the Asotin LAU with the Wenaha LAU to the south would not be affected by past, present, and future actions, therefore habitat connectivity is consistent with the amended Forest Plan. The <1% change in habitat since 2000 is currently within the amended Forest Plan standard that requires no more than 15% of the lynx habitat, in a unsuitable condition for a 10 year period, within a LAU. Overall, cumulative effects are consistent with the Forest Plan standards and guidelines as amended (Appendix C- Lynx Management Direction). Based on the cumulative effects; lynx movement, productivity, and mortality would not be affected by proposed activities in alternative D. Therefore, the action does not have an adverse effect on lynx or their habitat and is expected to lead to the conservation of the species (Ruediger et al. 2000).

Table IV-16 Summary of the Determination of Effects for all Endangered, Threatened, and Sensitive Terrestrial Species Occurring or Suspected of Occurring within the Upper Charley analysis area

<table>
<thead>
<tr>
<th>STATUS</th>
<th>SPECIES</th>
<th>HABITAT SUITABILITY</th>
<th>ALTERNATIVES</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>A</td>
</tr>
<tr>
<td>Federally Listed or Proposed for Listing</td>
<td>Northern bald eagle</td>
<td>No habitat in area</td>
<td>NE</td>
</tr>
<tr>
<td></td>
<td>Peregrine falcon</td>
<td>No habitat in area</td>
<td>NE</td>
</tr>
<tr>
<td></td>
<td>Gray wolf</td>
<td>No habitat in area</td>
<td>NE</td>
</tr>
<tr>
<td></td>
<td>Canada Lynx</td>
<td>Potential habitat</td>
<td>NE</td>
</tr>
<tr>
<td>Region 6 Sensitive Species for the Umatilla National Forest</td>
<td>Preble’s shrew</td>
<td>No habitat in area</td>
<td>NI</td>
</tr>
<tr>
<td></td>
<td>Townsend’s big-eared bat</td>
<td>No habitat in area</td>
<td>NI</td>
</tr>
<tr>
<td></td>
<td>California bighorn sheep</td>
<td>No habitat in area</td>
<td>NI</td>
</tr>
<tr>
<td></td>
<td>California wolverine</td>
<td>Travelway habitat</td>
<td>NI</td>
</tr>
<tr>
<td></td>
<td>Ferruginous hawk</td>
<td>No habitat in area</td>
<td>NI</td>
</tr>
<tr>
<td></td>
<td>Long-billed curlew</td>
<td>No habitat in area</td>
<td>NI</td>
</tr>
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</table>
### EFFECTS OF THE ALTERNATIVES ON THREATENED, ENDANGERED AND SENSITIVE PLANT SPECIES

No Change from FEIS.

### EFFECTS OF THE ALTERNATIVES ON RECREATION RESOURCES

No Change from FEIS.

### ECONOMIC FACTORS

#### EFFECTS OF THE ALTERNATIVES ON NON TRADITIONAL ECONOMIC FACTORS - QUALITATIVE RESOURCES

No Change from FEIS.

### SPECIFICALLY REQUIRED DISCLOSURES

**National Historic Preservation Act.**

No Change from FEIS.

**Endangered Species Act** – All action alternatives would comply with Forest Plan (as amended) direction to manage habitat for recovery of threatened and endangered species, and maintain and/or improve habitat and habitat diversity for minimum viable populations.

The Endangered Species Act requires protection of all species listed as "Threatened" or "Endangered" by federal regulating agencies (Fish and Wildlife Service and National Marine Fisheries Service). Section 7 of the Act requires federal agencies to insure that any action authorized, funded, or carried out by them is not likely to jeopardize the continued existence of listed species or modify their critical habitat.

This Supplemental Draft EIS hereby incorporates by reference Biological Evaluations and Assessments completed for all TE&S plant, aquatic and terrestrial wildlife (located in analysis file). Determinations were made in the BEs that none of the proposed projects would adversely affect, contribute to a trend toward Federal listing, nor cause a loss of viability to listed plant, aquatic, and animal populations or species. Also incorporated by reference are the following:

- Letter of concurrence (February 20, 2001) from U.S. Fish and Wildlife Service on Programmatic Biological Assessment of Proposed Projects for the Umatilla Forest on Canada lynx are in the
analysis file. This document represents the Service’s biological concurrence on the effects of that action on the Canada Lynx, in accordance with Section 7 (a) (2) of the Endangered Species Act of 1973 as amended (Act).


- Management direction (objectives, standards, and guidelines) taken from and consistent with conservation measures in Chapter 7 of the Canada Lynx Conservation Strategy (Ruediger et al. 2000). (See Appendix C – Lynx Management Direction for listing of objectives, standards, and guidelines.)


-----------------------------------------------------------------------------------------------------------------------------------
Wild and Scenic River Act
No Change from FEIS.

Prime Farmland, Range Land and Forest Land
No Change from FEIS.

Civil Rights, Women and Minorities
No Change from FEIS.

National Forest Management Act Compliance
No Change from FEIS.

Wetlands and Floodplains
No Change from FEIS.

Energy Requirements
No Change from FEIS.

Public Health and Safety
No Change from FEIS.

Environmental Justice
No Change from FEIS.

Roadless Areas –
Insert in FEIS under this heading.
Implementation of any of the action alternatives is in accordance with the agency’s reinstated interim directive numbered ID 1920-2004-1, which reinstates interim direction ID 1920-2001-1 (issued December 14, 2001, and expired June 14, 2003).

OTHER RESOURCE CONCERNS AND OPPORTUNITIES

<table>
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<th>Probable Adverse Environmental Impacts that Cannot be Avoided</th>
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INTERDISCIPLINARY TEAM:

Insert in FEIS Chapter V page 1.

<table>
<thead>
<tr>
<th>NAME</th>
<th>ANALYSIS CONTRIBUTION</th>
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<tr>
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<td>Wildlife Biologist</td>
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</tbody>
</table>

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Native Americans:
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  • National Forest Protection Alliance
  • Blue Mountain Biodiversity/League of Wilderness Defense – Asante Riverwind
  • Idaho Sporting Congress – Ron Mitchell
Blue Mountain Biodiversity Project – Karen Coulter
Oregon Natural Resource Council – Doug Heiken

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Boise Cascade Corporation – Bill Dryden – Bill Van Hole
Haglund, Kirtley, Kelley, Horngren and Jones – Scott Horngren

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GLOSSARY

No change from FEIS.

LITERATURE CITED

Add the following citations to FEIS:


Gobar, C. F. Potential Lynx Habitat: Umatilla National Forest. USDA, Forest Service, Umatilla National Forest; Pendleton, OR.


USDA, Forest Service; Memo, 2001. Lynx Biology Team response to the FWS “white paper”, with enclosures. [Ms. Kathy McAllister, Chair; Lynx and Wolverine Steering Committee.] U.S. Dept. of Agric., Forest Service. Northern Region (1); Missoula, MT. October 19.


INDEX

No change from FEIS.

APPENDIX A – HARVEST INDEX SUMMARY

No change from FEIS.

APPENDIX B – GENERAL WATER QUALITY BEST MANAGEMENT PRACTICES

No change from FEIS.
The following are lynx management objectives, standards, and guidelines incorporated into the Land and Resource Management Plan, Umatilla National Forest (1990) for the site-specific project called Upper Charley Subwatershed Ecosystem Restoration Projects (2000). The standards and guidelines address the risk to lynx productivity, movement, and mortality, in order to conserve lynx, and to reduce or eliminate adverse effects from management activities (Ruediger et al. 2000) on the Umatilla National Forest lands. Implementation of the following standards and guidelines is expected to support the management of lynx and their habitat and lead to the conservation of the species (Ruediger et al. 2000). This direction applies only to lynx habitat within Lynx Analysis Units (LAU).

1.0. ALL PROGRAMS AND ACTIVITIES

1.1. Programmatic Objectives

Design vegetation management strategies that are consistent with historical succession and disturbance regimes. The broad-scale strategy should be based on a comparison of historical and current ecological processes and landscape patterns, such as age-class distributions and patch size characteristics. It may be necessary to moderate the timing, intensity, and extent of treatments to maintain all required habitat components in lynx habitat, to reduce human influences on mortality risk and interspecific competition, and to be responsive to current social and ecological constraints relevant to lynx habitat.

To sustain lynx populations through time, maintain or enhance the snowshoe hare prey base by providing vegetation with dense horizontal cover.

1.1.1. Standards

1. Management direction will generally apply only to lynx habitat on Umatilla National Forest lands within Lynx Analysis Units (LAUs).

2. Lynx habitat will be mapped using criteria specific to each geographic area to identify appropriate vegetation and environmental conditions. Primary vegetation includes those types necessary to support lynx reproduction and survival. It is recognized that other vegetation types that are intermixed with the primary vegetation will be used by lynx, but are considered to contribute to lynx habitat only where associated with the primary vegetation.

3. To facilitate project planning, delineate LAUs. To allow for assessment of the potential effects of the project on an individual lynx, LAUs should be at least the size of area used by a resident lynx and contain sufficient year-round habitat.

4. To be effective for the intended purposes of planning and monitoring, LAU boundaries will not be adjusted for individual projects, but must remain constant.

5. Prepare a broad-scale assessment of landscape patterns that compares historical and current ecological processes and vegetation patterns, such as age-class distributions and patch size characteristics. In the absence of guidance developed from such an assessment, limit
disturbance within each LAU as follows: if more than 30 percent of lynx habitat within a LAU is currently in unsuitable condition, no further reduction of suitable conditions shall occur as a result of vegetation management activities.

1.1.2. Guidelines

1. The size of LAUs should generally be 16,000 - 25,000 acres (25-50 square miles) in contiguous habitat, and likely should be larger in less contiguous, poorer quality, or naturally fragmented habitat. Larger units should be identified in the southern portions of the Northern Rocky Mountains Geographic Area (Oregon, and SE Washington). In the west, we recommend using watersheds (e.g., 6th code hydrologic unit codes (HUCs) in more northerly portions of geographic areas, and 5th code HUCs in more southerly portions). Coordinate delineation of LAUs with adjacent administrative units and state wildlife management agencies, where appropriate.

2. Areas with only insignificant amounts of lynx habitat may be discarded, or lynx habitat within the unit incorporated into neighboring LAUs. Based on studies at the southern part of lynx range in the western U.S., it appears that at least 6,400 acres (10 square miles) of primary vegetation should be present within each LAU to support survival and reproduction. The distribution of habitat across the LAU should consider daily movement distances of resident females (typically up to 3-6 miles).

3. After LAUs are identified, their spatial arrangement should be evaluated. Determine the number and arrangement of contiguous LAUs needed to maintain lynx habitat well distributed across the planning area.

1.2. Project

1.2.1. Standards

1. Within each LAU, map lynx habitat. Identify potential denning habitat and foraging habitat (primarily snowshoe hare habitat, but also habitat for important alternate prey such as red squirrels), and topographic features that may be important for lynx movement (major ridge systems, prominent saddles, and riparian corridors). Also identify non-forest vegetation (meadows, shrub-grassland communities, etc.) adjacent to and intermixed with forested lynx habitat that may provide habitat for alternate lynx prey species.

2. Within a LAU, maintain denning habitat in patches generally larger than 5 acres, comprising at least 10 percent of lynx habitat. Where less than 10 percent denning habitat is currently present within a LAU, defer any management actions that would delay development of denning habitat structure.

3. Maintain habitat connectivity within and between LAUs.

2.0. TIMBER MANAGEMENT

2.1. Programmatic Objectives

Evaluate historical conditions and landscape patterns to determine historical vegetation mosaics across landscapes through time. For example, large infrequent disturbance events may have been more characteristic of lynx habitat than small frequent disturbances.

Maintain suitable acres and juxtaposition of lynx habitat through time. Design vegetation treatments to approximate historical landscape patterns and disturbance processes.

If the landscape has been fragmented by past management activities that reduced the quality of lynx habitat, adjust management practices to produce forest composition, structure, and patterns more similar to those that would have occurred under historical disturbance regimes.
2.2. **Project Objectives**

Design regeneration harvest, planting, and thinning to develop characteristics suitable for snowshoe hare habitat.

Design project to retain/enhance existing habitat conditions for important alternate prey (particularly red squirrel).

2.2.1. **Standards**

1. Management actions (e.g., timber sales, salvage sales) shall not change more than 15 percent of lynx habitat within a LAU to an unsuitable condition within a 10-year period. *This period began with the listing of Canada Lynx in 2000 (calendar year).*

2. Following a disturbance, such as blowdown, fire, insects/pathogens mortality that could contribute to lynx denning habitat, do not salvage harvest when the affected area is smaller than 5 acres. Exceptions to this include:
   a. Areas such as developed campgrounds; or
   b. LAUs where denning habitat has been mapped and field validated (not simply modeled or estimated), and denning habitat comprises more than 10% of lynx habitat within a LAU. In these cases, salvage harvest may occur, provided that at least the minimum amount is maintained in a well-distributed pattern.

3. In lynx habitat, pre-commercial thinning will be allowed only when stands no longer provide snowshoe hare habitat (e.g., self-pruning processes have eliminated snowshoe hare cover and forage availability during winter conditions with average snowpack).

4. In aspen stands within lynx habitat in the Northern Rocky Mountains Geographic Areas, apply harvest prescriptions that favor regeneration of aspen.

2.2.2. **Guidelines**

1. Plan regeneration harvests in lynx habitat where little or no habitat for snowshoe hare is currently available, to recruit a high density of conifers, hardwoods, and shrubs preferred by hares. Consider the following:
   a) Design regeneration prescriptions to mimic historical fire (or other natural disturbance) events, including retention of fire-killed dead trees and coarse woody debris;
   b) Design harvest units to mimic the pattern and scale of natural disturbances and retain natural connectivity across the landscape. Evaluate the potential of riparian zones, ridges, and saddles to provide connectivity; and
   b) Provide for continuing availability of foraging habitat in proximity to denning habitat.

2. In areas where recruitment of additional defining habitat is desired, or to extend the production of snowshoe hare foraging habitat where forage quality and quantity is declining due to plant succession, consider improvement harvests (commercial thinning, selection, etc). Improvement harvests should be designed to:
   a) Retain and recruit the understory of small diameter conifers and shrubs preferred by hares;
   b) Retain and recruit coarse woody debris, consistent with the likely availability of such material under natural disturbance regimes; and
   c) Maintain or improve the juxtaposition of denning and foraging habitat.

3. Provide habitat conditions through time that support dense horizontal understory cover, and high densities of snowshoe hares. This includes, for example, mature multi-storied conifer vegetation in the west. Focus vegetation management, including timber harvest and use of prescribed fire, in areas that have potential to improve snowshoe hare habitat (dense horizontal cover) but that presently have poorly developed understories that have little value to snowshoe hares.
3.0. FIRE MANAGEMENT

3.1. Programmatic Objectives

Restore fire as an ecological process. Evaluate whether fire suppression, forest type conversions, and other forest management practices have altered fire regimes and the functioning of ecosystems.

Revise or develop fire management plans to integrate lynx habitat management objectives. Prepare plans for areas large enough to encompass large historical fire events.

Use fire to move toward landscape patterns consistent with historical succession and disturbance regimes. Consider use of mechanical pre-treatment and management ignitions if needed to restore fire as an ecological process.

Adjust management practices where needed to produce forest composition, structure, and patterns more similar to those that would have occurred under historical succession and disturbance regimes.

Design vegetation and fire management activities to retain or restore denning habitat on landscape settings with highest probability of escaping stand-replacing fire events. Evaluate current distribution, amount, and arrangement of lynx habitat in relation to fire disturbance patterns.

3.2. Project Objectives

Use fire as a tool to maintain or restore lynx habitat.

When managing wildland fire, minimize creation of permanent travel ways that could facilitate increased access by competitors.

3.2.1. Standards

1. In the event of a large wildfire, conduct a post-disturbance assessment prior to salvage harvest, particularly in stands that were formerly in late successional stages, to evaluate potential for lynx denning and foraging habitat.
2. Design burn prescriptions to regenerate or create snowshoe hare habitat (e.g., regeneration of aspen and lodgepole pine).

3.2.2. Guidelines

1. Design burn-prescriptions to promote response by shrub and tree species that are favored by snowshoe hare.
2. Design burn prescriptions to retain or encourage tree species composition and structure that will provide habitat for red squirrels or other alternate prey species.
3. Consider the need for pre-treatment of fuels before conducting management ignitions.
4. Avoid constructing permanent firebreaks on ridges or saddles in lynx habitat.
5. Minimize construction of temporary roads and machine fire lines to the extent possible during fire suppression activities.
6. Design prescribed burn prescriptions and, where feasible, conduct fire suppression actions in a manner that maintains adequate lynx denning habitat (10% of lynx habitat per LAU).

4.0. RECREATION MANAGEMENT

4.1. Programmatic Objectives

Plan for and manage recreational activities to protect the integrity of lynx habitat, considering as a minimum the following:
• Minimize snow compaction in lynx habitat.
• Concentrate recreational activities within existing developed areas, rather than developing new recreational areas in lynx habitat.
• On Umatilla National Forest lands, ensure that development or expansion of developed recreation sites or ski areas and adjacent lands address landscape connectivity and lynx habitat needs.

Maintain the natural competitive advantage of lynx in deep snow conditions.

4.1.1. Standards

1. On Umatilla National Forest lands in lynx habitat, allow no net increase in groomed or designated over-the-snow routes and snowmobile play areas by LAU unless the designation serves to consolidate unregulated use and improves lynx habitat through a net reduction of compacted snow areas. Note: This standard does not apply to ski areas: see Ski Areas/Large Resorts below.

2. Map and monitor the location and intensity of snow compacting activities (for example, snowmobiling, snowshoeing, cross-country skiing, dog sledding, etc.) that coincide with lynx habitat, to facilitate future evaluation of effects on lynx as information becomes available.

3. On Umatilla National Forest lands in lynx habitat, allow no net increase in groomed or designated over-the-snow routes and snowmobile play areas by LAU. This is intended to apply to dispersed recreation, rather than existing ski areas.

4.1.2. Guidelines

1. Provide a landscape with interconnected blocks of foraging habitat where snowmobile, cross-country skiing, snowshoeing, or other snow compacting activities are minimized or discouraged.

2. As information becomes available on the impact of snow-compacting activities and disturbance on lynx, limit or discourage this use in areas where it is shown to compromise lynx habitat. Such actions should be undertaken on a priority basis considering habitat function and importance.

4.2. Project

4.2.1. Standards

Developed Recreation:

1. In lynx habitat, ensure that actions do not degrade or compromise landscape connectivity when planning and operating new or expanded recreation developments.

2. Design trails, roads, and lift termini to direct winter use away from diurnal security habitat.

Dispersed Recreation:

1. To protect the integrity of lynx habitat, evaluate (as new information becomes available) and amend as needed, winter recreational special use permits (outside of permitted ski areas) that promote snow compacting activities in lynx habitat.

4.2.2. Guidelines

Developed Recreation:

1. Identify and protect potential security habitats in and around proposed developments or expansions.

2. When designing ski area expansions, provide adequately sized coniferous inter-trail islands, including the retention of coarse woody material, to maintain snowshoe hare habitat.
3. Evaluate, and adjust as necessary, ski operations in expanded or newly developed areas to provide nocturnal foraging opportunities for lynx in a manner consistent with operational needs, especially in landscapes where lynx habitat occurs as narrow bands of coniferous forest across the mountain slopes.

5.0. SKI AREAS / LARGE RESORTS

5.1. Programmatic Objectives
When conducting landscape level planning on Umatilla National Forest lands, allocate land uses such that landscape connectivity is maintained.

5.1.1. Standards
1. Within identified key linkage areas, provide for landscape connectivity

5.2. Project
5.2.1. Standards
1. When planning new or expanding recreational developments, ensure that connectivity within linkage areas are maintained.

5.2.2. Guidelines
1. Plan recreational development, and manage recreational and operational uses to provide for lynx movement and to maintain effectiveness of lynx habitat.

6.0. FOREST ROADS AND TRAILS

6.1. Programmatic Objectives
Maintain the natural competitive advantage of lynx in deep snow conditions.

6.1.1. Standards
1. On Umatilla National Forest lands in lynx habitat, allow no net increase in groomed or designated over-the-snow routes and snowmobile play areas by LAU. Winter logging activity is not subject to this restriction.

6.1.2. Guidelines
1. Determine where high total road densities (>2 miles per square mile) coincide with lynx habitat, and prioritize roads for seasonal restrictions or reclamation in those areas.
2. Minimize roadside brushing in order to provide snowshoe hare habitat.
3. Locate trails and roads away from forested stringers.
4. Limit public use on temporary roads constructed for timber sales. Design new roads, especially the entrance, for effective closure upon completion of sale activities.
5. Minimize building of roads directly on ridgetops or areas identified as important for lynx habitat connectivity.

7.0. HIGHWAYS

7.1. Programmatic Objectives
Reduce the potential for lynx mortality related to highways.
Ensure that connectivity is maintained across highway rights-of-way

7.1.1. Standards
1. Within lynx habitat, identify key linkage areas and potential highway crossing areas.
2. The Forest will work cooperatively with the Federal Highway Administration and State Departments of Transportation to address the following within lynx geographic areas:
   a) Identify land corridors necessary to maintain connectivity of lynx habitat.
   b) Map the location of "key linkage areas" where highway crossings may be needed to provide habitat connectivity and reduce mortality of lynx (and other wildlife).

7.1.2. Guidelines
1. Where needed, develop measures such as wildlife fencing and associated underpasses or overpasses to reduce mortality risk.
2. Evaluate whether land ownership and management practices are compatible with maintaining lynx highway crossings in key linkage areas. On public lands, management practices will be compatible with providing habitat connectivity. On private lands, agencies will strive to work with landowners to develop conservation easements, exchanges, or other solutions.

7.2. Project
7.2.1. Standards
1. Identify, map, and prioritize site-specific locations, using topographic and vegetation features, to determine where highway crossings are needed to reduce highway impacts on lynx.
2. Within the range of lynx, complete a biological assessment for all proposed highway projects on Umatilla National Forest lands. A land management agency biologist will review and coordinate with highway departments on development of the biological assessment.

7.2.2. Guidelines
1. Dirt and gravel roads traversing lynx habitat (particularly those that could become highways) should not be paved or otherwise upgraded (e.g., straightening of curves, widening of roadway, etc.) in a manner that is likely to lead to significant increases in traffic volumes, traffic speeds, increased width of the cleared ROW, or would foreseeably contribute to development or increases in human activity in lynx habitat. Whenever rural dirt and gravel roads traversing lynx habitat are proposed for such upgrades, a thorough analysis should be conducted on the potential direct and indirect effects to lynx and lynx habitat.

8.0. LIVESTOCK MANAGEMENT
8.1. Programmatic Objectives
In lynx habitat and adjacent shrub-steppe habitats, manage grazing to maintain the composition and structure of native plant communities.

8.2. Project Objectives
Manage livestock grazing within riparian areas and willow carrs in lynx habitat to provide conditions for lynx and lynx prey.

Maintain or move towards native composition and structure of herbaceous and shrub plant communities.
Ensure that ungulate grazing does not impede the development of snowshoe hare habitat in natural or created openings within lynx habitat.

### 8.2.1. Standards

1. Do not allow livestock use in openings created by fire or timber harvest that would delay successful regeneration of the shrub and tree components.
2. Manage grazing in aspen stands to ensure sprouting and sprout survival sufficient to perpetuate the long-term viability of the clones.
3. Within the elevation ranges that encompass forested lynx habitat, shrub-steppe habitats should be considered as integral to the lynx habitat matrix and should be managed to maintain or achieve mid seral or higher condition.
4. Within lynx habitat, manage livestock grazing in riparian areas and willow carrs to maintain or achieve mid seral or higher condition to provide cover and forage for prey species.

### 9.0. OIL & GAS LEASING, MINES, AND RESERVOIR DEVELOPMENT

#### 9.1. Programmatic Objectives

Design developments to minimize impacts on lynx habitat.

#### 9.1.1. Guidelines

1. Map oil and gas production and transmission facilities, mining activities and facilities, dams, and agricultural lands on public lands and adjacent private lands, in order to assess cumulative effects.

#### 9.2. Project

#### 9.2.1. Standards

1. On projects where over-snow access is required, restrict use to designated routes.

#### 9.2.2. Guidelines

1. If activities are proposed in lynx habitat, develop stipulations for limitations on the timing of activities and surface use and occupancy at the leasing stage.
2. Minimize snow compaction when authorizing and monitoring developments. Encourage remote monitoring of sites that are located in lynx habitat, so that they do not have to be visited daily.
3. Develop a reclamation plan (e.g., road reclamation and vegetation rehabilitation) for abandoned well sites and closed mines to restore suitable habitat for lynx.
4. Close newly constructed roads (built to access mines or leases) in lynx habitat to public access during project activities. Upon project completion, reclaim or obliterate these roads.

### 10.0. PUBLIC-PRIVATE LAND OWNERSHIP

#### 10.1. Programmatic Objectives

 Retain lands in key linkage areas in public ownership.

#### 10.1.1. Standards

1. Identify key linkage areas by management jurisdiction(s) in management plans and prescriptions.
10.1.2. Guidelines
1. In land adjustment programs, identify key linkage areas. Work towards unified management direction via habitat conservation plans, conservation easements or agreements, and land acquisition.

10.2. Project
10.2.1. Standards
1. Develop and implement specific management prescriptions to protect/enhance key linkage areas.
2. Evaluate proposed land exchanges, land sales, and special use permits for effects on key linkage areas.

11.0. HABITAT CONNECTIVITY
11.1. Programmatic Objectives
Maintain and, where necessary and feasible, restore habitat connectivity across forested landscapes.

11.1.1. Standards
1. Identify key linkage areas that may be important in providing landscape connectivity within and between geographic areas, across all ownerships.
2. Develop and implement a plan to protect key linkage areas on Umatilla National Forest lands from activities that would create barriers to movement. Barriers could result from an accumulation of incremental projects, as opposed to anyone project.
3. Evaluate the potential importance of shrub-steppe habitats in providing landscape connectivity between blocks of lynx habitat. Livestock grazing within shrub-steppe habitats in such areas should be managed to maintain or achieve mid seral or higher condition, to maximize cover and prey availability. Such areas that are currently in late seral condition should not be degraded.

11.1.2. Guidelines
1. Where feasible, maintain or enhance native plant communities and patterns, and habitat for potential lynx prey, within identified key linkage areas. Pursue opportunities for cooperative management with other landowners.

12.0. TRAPPING, CONTROL, AND SHOOTING
12.1. Programmatic Objectives
Reduce incidental harm or capture of lynx during regulated and unregulated trapping activity, and ensure retention of an adequate prey base.

Reduce incidental harm or capture of lynx during predator control activities, and ensure retention of adequate prey base.

Reduce lynx mortalities related to mistaken identification or illegal shooting.

Maintain the natural competitive advantage of lynx in deep snow conditions.
12.1.1. Standards

1. Predator control activities, including trapping or poisoning on domestic livestock allotments, on Umatilla National Forest lands within lynx habitat, will be conducted by Wildlife Services personnel in accordance with Wildlife Services Annual Work Plan and FWS recommendations established through a formal Section 7 consultation process.

2. On Umatilla National Forest lands in lynx habitat, allow no net increase in groomed or designated over-the-snow routes and snowmobile play areas by LAU. This is intended to apply to dispersed recreation, rather than existing ski areas.

12.1.2. Guidelines

1. The Umatilla National Forest should work cooperatively with States and Tribes to reduce incidental take of lynx related to trapping.

2. Initiate interagency information and education efforts throughout the range of lynx in the contiguous states. Utilize trailhead posters, magazine articles, and news releases, state hunting and trapping regulation booklets, etc., to inform the public of the possible presence of lynx, field identification, and their status.

3. The Umatilla National Forest should work cooperatively with States and Tribes to ensure that important lynx prey are conserved.