



July 17, 2009

MEMORANDUM

TO: Forest Practices Board

FROM: Gretchen Robinson *Gretchen*
Forest Practices Division, Policy and Services Section

SUBJECT: Northern Spotted Owl Rule Making – Action Requested

On August 12, 2009 I will request the following Board actions for Northern Spotted Owl rule making:

- 1. Direct staff to proceed with permanent rule making by filing a CR-102 *Proposed Rule Making* with the enclosed rule language; and**
- 2. Re-adopt the emergency rule by filing a CR-103 *Rule Making Order* to allow time for permanent rule making to be completed.**

The rule:

- Removes language about the moratorium on Northern Spotted Owl decertification which expired on December 31, 2008.
- Adds a definition of “spotted owl conservation advisory group.” The group is established to perform a short-term function while the Board is determining a strategy for spotted owl habitat conservation.
- Adds language in WAC 222-16-080 “critical habitats” that specifies the group’s function, and indicates its existence is limited to one year.

Here is a brief background on the Northern Spotted Owl rule to date. On December 16, 2009 the Board adopted an emergency rule to take effect on January 1, 2009, and directed staff to begin the permanent rule making process with the same language as in the emergency rule. On December 29, 2008 staff filed a CR-103 *Rule Making Order* for the emergency rule, and a CR-101 *Preproposal Statement of Inquiry* for the permanent rule.

On February 11, 2009 the Board directed staff to distribute the rule proposal to the Department of Fish and Wildlife, counties and tribes for review and comment. (This is a Forest Practices Act requirement for permanent rule making in RCW 76.09.040(2)). This “30-day review” took place between February 20 and March 23. From that process, the Board received one comment letter in support of the rule proposal from the Department of Fish and Wildlife. I am enclosing that letter.

In the meantime the Department’s chief economist, with the help of forest practices division staff, has completed a preliminary cost-benefit analysis and a small business economic impact statement. These analyses are combined in the “Economic Analysis” document enclosed for your

Forest Practices Board

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consideration, and ultimately for public review. Staff has also been working on the SEPA environmental checklist.

Filing the CR-102 will initiate public review of the rule proposal and the preliminary economic analysis. The SEPA public review and comment period will take place at the same time. The CR-103 (the re-adopted emergency rule) must be filed by August 27 to ensure the emergency rule remains in effect until a permanent rule can be adopted.

If the Board re-adopts the emergency rule and approves proceeding with permanent rule making, staff will file the documents in August, prepare for a hearing to take place the end of September, complete and distribute the SEPA analysis, and prepare for the Board's adoption of the permanent rule at the November 4, 2009 meeting.

I'll be happy to answer any of your questions at the Board meeting.

GR/

Enclosures: Rule language for public review
Preliminary Economic Analysis for Board consideration and public review
Department of Fish and Wildlife comment letter

Forest Practices Board
August 2009
Northern Spotted Owl Rule Making

WAC 222-16-010 *General definitions

...

"Northern spotted owl site center" means:

~~(1) — Until December 31, 2008, the location of northern spotted owls:~~

~~(a) — Recorded by the department of fish and wildlife as status 1, 2 or 3 as of November 1, 2005; or~~

~~(b) — Newly discovered, and recorded by the department of fish and wildlife as status 1, 2 or 3 after November 1, 2005.~~

~~(2) — After December 31, 2008, the location of status 1, 2 or 3 northern spotted owls based on the following definitions:~~

Status 1: Pair or reproductive - a male and female heard and/or observed in close proximity to each other on the same visit, a female detected on a nest, or one or both adults observed with young.

Status 2: Two birds, pair status unknown - the presence or response of two birds of opposite sex where pair status cannot be determined and where at least one member meets the resident territorial single requirements.

Status 3: Resident territorial single - the presence or response of a single owl within the same general area on three or more occasions within a breeding season with no response by an owl of the opposite sex after a complete survey; or three or more responses over several years (i.e., two responses in year one and one response in year two, for the same general area).

In determining the existence, location, and status of northern spotted owl site centers, the department shall consult with the department of fish and wildlife and use only those sites documented in substantial compliance with guidelines or protocols and quality control methods established by and available from the department of fish and wildlife.

...

"SOSEA goals" means the goals specified for a spotted owl special emphasis area as identified on the SOSEA maps (see WAC 222-16-086). SOSEA goals provide for demographic and/or dispersal support as necessary to complement the northern spotted owl protection strategies on federal land within or adjacent to the SOSEA.

"Spoil" means excess material removed as overburden or generated during road or landing construction which is not used within limits of construction.

"Spotted owl conservation advisory group" means a three-person advisory group designated by the board as follows: One person shall be a representative of Washington's forest products industry, one person shall be a representative of a Washington-based conservation organization actively involved with spotted owl conservation, and one person shall be a representative of the department's forest practices program. Members of the group shall have a detailed working knowledge of spotted owl habitat relationships and factors affecting northern spotted owl conservation.

"Spotted owl dispersal habitat" see WAC 222-16-085(2).

"Spotted owl special emphasis areas (SOSEA)" means the geographic areas as mapped in WAC 222-16-086. Detailed maps of the SOSEAs indicating the boundaries and goals are available from the department at its regional offices.

...

WAC 222-16-080 Critical habitats (state) of threatened and endangered species.

...

- (6) Regardless of any other provision in this section, forest practices applications shall not be classified as Class IV-Special based on critical habitat (state) (WAC 222-16-080 WAC 222-16-050 (1)(b)) for a species, if the forest practices are consistent with one or more of the following:
- (a) Documents addressing the needs of the affected species provided such documents have received environmental review with an opportunity for public comment under the National Environmental Policy Act, 42 U.S.C. section 4321 et seq.:
 - (i) A habitat conservation plan and incidental take permit; or an incidental take statement covering such species approved by the Secretary of the Interior or Commerce pursuant to 16 U.S.C. § 1536 (b) or 1539 (a); or
 - (ii) An "unlisted species agreement" covering such species approved by the U.S. Fish and Wildlife Service or National Marine Fisheries Service; or
 - (iii) Other conservation agreement entered into with a federal agency pursuant to its statutory authority for fish and wildlife protection that addresses the needs of the affected species; or
 - (iv) A rule adopted by the U.S. Fish and Wildlife Service or the National Marine Fisheries Service for the conservation of an affected species pursuant to 16 U.S.C. section 1533(d); or
 - (b) Documents addressing the needs of the affected species so long as they have been reviewed under the State Environmental Policy Act;
 - (i) A landscape management plan; or
 - (ii) Another cooperative or conservation agreement entered into with a state resource agency pursuant to its statutory authority for fish and wildlife protection;
 - (c) A special wildlife management plan (SWMP) developed by the landowner and approved by the department in consultation with the department of fish and wildlife;
 - (d) A bald eagle management plan approved under WAC 232-12-292;
 - (e) A landowner option plan (LOP) for northern spotted owls developed pursuant to WAC 222-16-100(1);
 - (f) A cooperative habitat enhancement agreement (CHEA) developed pursuant to WAC 222-16-105; or
 - (g) A take avoidance plan issued by the U.S. Fish and Wildlife Service or the National Marine Fisheries Service prior to March 20, 2000.
 - (h) From January 1, 2009 through December 31, 2009, surveys demonstrating the absence of northern spotted owls at a northern spotted owl site center have been reviewed and approved by the department of fish and wildlife and all 3 of the following criteria have been met:

- (i) The site has been evaluated by the spotted owl conservation advisory group, and
- (ii) As part of the spotted owl conservation advisory group's evaluation, the department's representative has consulted with the department of fish and wildlife, and
- (iii) The spotted owl conservation advisory group has reached consensus that the site need not be maintained while the board completes its evaluation of rules affecting the northern spotted owl. The spotted owl conservation advisory group shall communicate its findings to the department in writing within 60 days of the department of fish and wildlife's approval of surveys demonstrating the absence of northern spotted owls.

In those situations where one of the options above has been used, forest practices applications may still be classified as Class IV-Special based upon the presence of one or more of the factors listed in WAC 222-16-050(1), other than critical habitat (state) for the species covered by the existing plan **or evaluations.**

- (7) The department, in consultation with the department of fish and wildlife, shall review each SOSEA to determine whether the goals for that SOSEA are being met through approved plans, permits, statements, letters, or agreements referred to in subsection (6) of this section. Based on the consultation, the department shall recommend to the board the suspension, deletion, modification or reestablishment of the applicable SOSEA from the rules. The department shall conduct a review for a particular SOSEA upon approval of a landowner option plan, a petition from a landowner in the SOSEA, or under its own initiative.
- (8) The department, in consultation with the department of fish and wildlife, shall report annually to the board on the status of the northern spotted owl to determine whether circumstances exist that substantially interfere with meeting the goals of the SOSEAs.

PRELIMINARY ECONOMIC ANALYSIS
Forest Practices Board
Rule Making Affecting Northern Spotted Owl Habitat
By Phil Aust, Lead Economist and Gretchen Robinson, Natural Resource Specialist,
Department of Natural Resources
July 2009

OBJECTIVES

The Forest Practices Board is considering a rule proposal to amend WAC 222-16-010 that could affect timber harvest in Northern Spotted Owl circles within Spotted Owl Special Emphasis Areas (SOSEAs) in Washington State. The objectives of this economic analysis are to analyze the costs and benefits of the proposal pursuant to [RCW 34.05.328](#), and to determine whether the costs to comply with the proposal are likely to disproportionately impact the state's small businesses pursuant to [RCW 19.85.040](#).

According to the Administrative Procedure Act, (chapter RCW 34.05) agencies must complete a cost-benefit analysis (CBA) to:

- Determine that the probable benefits of the rule are greater than its probable costs, taking into account both the qualitative and quantitative benefits and costs and the specific directives of the statute being implemented; and
- Determine, after considering alternative versions of the rule, that the rule being adopted is the least burdensome alternative for those required to comply with it that will achieve the general goals and specific objectives of the statute that the rule implements.

A small business economic impact statement (SBEIS) is required by the Regulatory Fairness Act (chapter RCW 19.85) to consider the impacts of administrative rules adopted by state agencies on small businesses. The statute defines small businesses as those with 50 or fewer employees. To determine whether the proposed rule will have a disproportionate cost impact on small businesses, the impact statement compares the cost of compliance for small business with the cost of compliance for the ten percent of businesses that are the largest businesses required to comply with the proposed rules.

CONTEXT

Since 2005, the Board considered whether and how the forest practices rules should be changed to conserve habitat for the Northern Spotted Owl. In November 2005, the Forest Practices Board adopted rules that placed a temporary moratorium on the practice of decertifying spotted owl site centers to allow time to develop a long-term conservation strategy. This was due to reported declines in suitable habitat in the decade since the 1996 adoption of state rules to conserve spotted owl habitat,¹ and in Washington's spotted owl population since the species was listed as threatened in 1990 under the Endangered Species Act.² The Board maintained the moratorium, through a succession of emergency and permanent rules, through December 31, 2008.

¹ See *An Assessment of Spotted Owl Habitat on Non-federal Lands in Washington Between 1996 and 2004*, John D. Pierce et al., August 2005 at http://wdfw.wa.gov/wlm/research/papers/spotted_owl/index.htm.

² See *Final Briefing Report to the Washington State Forest Practices Board Regarding Spotted Owl Status and Forest Practices Rules*, Joseph B. Buchanan and Paula Swedeen, August 2005 at http://wdfw.wa.gov/wlm/research/papers/spotted_owl/forest_practices.htm.

Under current rules, with no moratorium on decertification, a landowner may, after having followed survey protocol for two consecutive years, petition the Department of Fish and Wildlife (WDFW) to decertify the owl circle. If WDFW finds that the landowner has properly followed the survey protocol it may change the status of the site center and the restrictions on harvest within the circle are lifted.

To help develop a long-term conservation strategy for the spotted owl, on July 7, 2008, the Board established a multi-stakeholder Policy Working Group on Northern Spotted Owl Conservation. This group is to recommend measures that result in strategic contribution from non-federal lands in Washington to the conservation of a viable population of the Northern Spotted Owl. The Board expects recommendations from this group by the end of 2009.

On December 16, 2008, the Board adopted an emergency rule that deleted language pertaining to the moratorium, and created a multi-stakeholder advisory committee to review any surveys demonstrating the absence of spotted owls at spotted owl site centers. The Board also directed staff to begin the permanent rule making process with the same rule language. Because emergency rules are effective for only 120 days unless an agency is actively undertaking the appropriate procedures to adopt the rule as permanent, the Board re-adopted the emergency rule twice while permanent rule making is in progress. Two steps in rule making are already completed, the CR-101 *Pre-proposal Statement of Inquiry* pursuant to RCW 34.05.310 and the 30-day review pursuant to RCW 76.09.040(2). This economic analysis is part of the next step in evaluating the proposed permanent rule.

PROPOSED RULE

The proposed rule has three parts:

1. Removes language from WAC 222-16-010 “Northern Spotted owl site center” pertaining to the moratorium on the decertification of Northern Spotted Owl site centers which expired on December 31, 2008;
2. creates in WAC 222-16-010 the “spotted owl conservation advisory group”³; and
3. adds language to WAC 222-16-080, “critical habitats”, which specifies that for the period from “January 1, 2009 through December 31, 2009 the advisory group will determine if “the site need not be maintained while the board completes its evaluation of rules affecting the northern spotted owl”, and indicates the advisory group’s existence is limited to the above mentioned period.

Purpose of the proposed rule change: The primary purpose of the proposed rule change is to assure that no habitat important to the Northern Spotted Owl is altered through forest practices while the Board determines a long-term strategy for spotted owl habitat conservation.

The concept of the spotted owl conservation advisory group was a result of a stakeholder (state, forest industry, conservation community) agreement to have an interim process in place while the Policy Working Group on Northern Spotted Owl Conservation develops recommendations for a long-term conservation strategy. The advisory group consists of three representatives, one from the Washington forest products industry, one from a Washington-based conservation organization actively involved with spotted owl conservation, and one from the forest practices program. Members of the group will

³ The spotted owl conservation advisory group is referred to as the advisory group in this document.

have a detailed working knowledge of spotted owl relationships and factors affecting spotted owl conservation.

The advisory group's role is to evaluate whether historical habitat should be maintained after WDFW approves surveys demonstrating the absence of spotted owls as performed consistent with survey protocols. If the advisory group members reach consensus that the site center need not be maintained while the Board completes its evaluation of rules affecting the Northern Spotted Owl, then and only then can the site center be decertified. In such case, the advisory group will communicate its findings to the Department of Natural Resources (DNR) in writing within 60 days of WDFW's approval of the survey.

In short, the rule imposes additional analysis by experts on any survey submitted and approved by WDFW during the year 2009. The site may not be decertified unless the advisory group reaches consensus that the site center need not be maintained while the Board determines a long-term conservation strategy. The duration of the advisory group's existence is from January 1, 2009 through December 31, 2009.

COST-BENEFIT ANALYSIS

To estimate the economic impacts of the proposed rule change, cost estimates are analyzed quantitatively and discussed in terms of probability of occurrence. The potential benefits are described only qualitatively. It is important to note that both costs and benefits are uncertain because it is unknown whether WDFW will receive and approve any surveys during the short timeframe of the advisory group's existence. To date no surveys have been approved.

BENEFITS

This rule is intended to benefit Washington State's Northern Spotted Owl population. This species is designated "state endangered" and "federal threatened." As explained under "CONTEXT", for the past several years the Board has been concerned about whether to increase spotted owl habitat protection on non-federal lands. This is because suitable habitat has declined under the current rules, and also Washington's spotted owl population has declined since the species was listed as threatened in 1990 under the Endangered Species Act. The Board established the Policy Working Group for Northern Spotted Owl Conservation to develop recommendations for a long-term conservation strategy, and is looking for the group's recommendations by the end of 2009.

As previously explained, the Board desires additional analysis by experts on any survey submitted to and approved by WDFW, in which a landowner demonstrated the absence of spotted owls at a spotted owl site center (circle), for the year 2009. It is expected that this will add assurance that no potentially important habitat is lost through harvest while the Board determines any appropriate changes to its rules related to spotted owl habitat conservation.

COSTS

The rule-complying community affected by the proposal is businesses that own or control the cutting rights on the above-described forest land or those with the right to dispose of the timber (all hereafter referred to as "landowners"). However, for landowners owning less than 500 acres in a SOSEA, the effects of the proposed rules are limited to habitat within the inner 0.7-mile circle of a site center.

Part one of the proposed rule is the removal of language about a past moratorium on spotted owl site center decertification which is no longer relevant. As such, it has no economic impact.⁴

It is the other parts of the proposed rule that have potential to result in economic impact on those that must comply with the proposed rule. As explained above, the proposed rule creates the spotted owl conservation advisory group to evaluate any spotted owl site center that WDFW determines is no longer occupied. Under existing permanent rule, the site would be decertified. Under the proposed rule, if the advisory group reaches consensus that the site need not be maintained while the Board completes its evaluation of rules affecting the spotted owl, then the site will be decertified. If the advisory group cannot reach a consensus decision on this question, the site will retain its current status with restriction on harvest similar to other sites.

For the proposed rule, additional costs would accrue to the landowners of “suitable spotted owl habitat”⁵ within particular site centers (circles) (see Step 1 below) only if all of the following activities have occurred:

- An owner of forest land within the site center completed two years of surveys according to current federal protocol, which demonstrated the absence of spotted owls.
- The landowner submitted the appropriate survey documentation to WDFW.
- WDFW reviewed and approved the surveys were performed appropriately.
- The advisory group evaluated the surveys and the location of the site center.
- The advisory group could not reach consensus that the site need not be maintained while the Board completes its evaluation of the forest practices rules affecting the spotted owl.

In short, costs will only be imposed on owners of forest land within any spotted owl site center (circle) that the advisory group decides, by not being able to reach consensus to the contrary, should not be decertified until the Board determines a long-term strategy for spotted owl conservation. However, it is not known exactly what length of time such a circle will not be allowed to be decertified, and therefore eligible for harvest. It is also unknown whether any landowners will submit, or would submit in the absence of this rule, surveys to WDFW. To date, no complete surveys have been submitted to WDFW since the end of the moratorium on December 31, 2008. Therefore, we estimated timber volume and value calculations for individual circles to show possible impacts on forest landowners within each circle.

We took the following steps to estimate timber value in each circle:

- Step 1. Identified owl circles potentially affected by the rule change.
- Step 2. Determined forest land acreage within the owl circles identified in Step 1 that potentially could be affected by the rule change.
- Step 3. Estimated the timber volume on acres identified in Step 2 that potentially could be harvested.
- Step 4. Estimated the stumpage value of the timber volume identified in Step 3.

Step 1. Identify owl circles potentially affected by the rule change.

Forest lands within 12 site centers (circles) were identified as potentially being affected by the rule. These circles are within SOSEA boundaries, excluding forest land owned by the federal government,

⁴ The impacts of imposing the moratorium were analyzed as part of the rule making in 2006 and 2008.

⁵ WAC 222-16-085(1)

or covered by an HCP or landowner option plan. The forest land potentially affected within those circles is “suitable spotted owl habitat” described in WAC 222-16-085(1), that is, “old forest”, “sub-mature”, “mixed forest”, and “young forest marginal.”

Step 2. Determine forest land acreage within the owl circles identified in Step 1 that potentially could be affected by the rule change.

This acreage was determined by analyzing DNR Geographic Information System data for each owl circle identified in Step 1. Each circle’s acreage was calculated as an individual circle by suitable spotted owl habitat type. The results are summarized in column C-1 of Table 1.

Step 3. Estimate the timber volume on acres identified in step 2 above that potentially could be harvested.

Aerial stereo photos were used to estimate tree heights for each habitat type in each circle. Using the Log Scaling and Timber Cruising book (J.R. Dilworth, 1975, p.444), the average heights were used to find normal tree diameters at breast height (DBH) for trees of these heights. The average tree height and the DBH were used in conjunction with tariff table #40 to find the volume in board feet for each tree. The volume per tree was then multiplied by the trees per acre (TPA) requirements specified in WAC 222-16-085 to calculate the volume per acre. The ranges of TPA for each habitat type were averaged. To estimate the total board feet per habitat type for each circle, the board feet per acre total was multiplied by the number of acres of each habitat type for each circle. The results of this analysis are summarized in column C-2 of Table 1.

The estimated volume per acre was then multiplied by the number of acres per habitat type to determine the total volume affected by the rule; these volumes are shown in column C-3. This volume category was then reduced by a factor of 13 percent (shown in column C-4) to account for a timber volume in riparian zones that cannot be harvested under the Forest Practices rules.⁶ The resulting estimated forgone volume is shown in column C-5.

Step 4. Estimate the stumpage value of the timber volume identified in Step 3.

The price per thousand board feet of \$209/mbf was used to calculate stumpage value. This is based on the estimated stumpage price for Westside Douglas fir DNR stumpage over the last year. The price is based on the average composite DNR log price for Douglas fir during the twelve month period ending in June 2009 of \$359/mbf, less an estimated harvest and delivery cost of \$150 per million board feet.⁷ Applying the estimated value of \$209/mbf resulted in the estimated stumpage value shown in column C-6.

Cost Analysis

In total, the 12 circles cover 23,452 acres of habitat that currently cannot be harvested that would be released for harvest should the circles be decertified. However, it is extremely unlikely that this rule will impact all of the circles, and in fact may not impact any of the circles. It is more reasonable to consider the cost of the rule based on individual circles. As can be observed on Table 1 and Figure 1, the current potential timber value within a given circle ranges from \$0.0 to over \$20 million. The averages for all 12 circles in volume and timber value are 50.1 million board feet and \$12.0 million. The three circles in the Mineral SOSEA have little or no habitat currently, therefore the cost of

⁶ Based on the estimate from the 2001 cost-benefit analysis of the Forests and Fish rules; available upon request.

⁷ Unpublished data on file with the author and available upon request.

maintaining the habitat in these circles would be low. If we calculate the average cost after removing these three circles, the average increases to \$16 million.

It is important to stress that the foregone value of timber revenue (cost) estimated as a possible impact of the rule proposal (shown in column C-8 of Table 1) would accrue only to the landowners of “suitable spotted owl habitat” within particular site centers (circles). It bears repeating that landowners would be impacted only when all of the following activities have occurred:

- An owner of forest land within the site center completed two years of surveys according to current federal protocol which demonstrated the absence of spotted owls.
- The landowner submitted the appropriate survey documentation to WDFW.
- WDFW reviewed and approved the surveys were performed appropriately.
- The advisory group evaluated the surveys and the location of the site center.
- The advisory group could not reach consensus that the site need not be maintained while the Board completes its evaluation of the forest practices rules affecting the Northern Spotted Owl.

Between January 1, 2009 and July 14, 2009, only one landowner submitted survey documentation to WDFW. In that case, WDFW found the documentation to be incomplete and returned it to the landowner as disapproved. DNR program staff are unaware of any other landowner who is conducting a survey during the period covered by this rule.

Based on this information, and after staff conversations with WDFW and DNR field staff, our professional opinion is that the probability that all of the above-listed events will occur even for one owl circle is very low, and therefore the probable cost of the proposed rule change is considerably less than even the average cost of one owl circle of \$12.0 million, if not zero. The cost could be from \$0 to \$144.4 million, depending on whether no site centers, or any number of site centers (between 1 and 12), are affected by the advisory group’s analysis during the group’s one-year life span.

Table 1: Potentially Affected Acres and Volume, and Associated Values

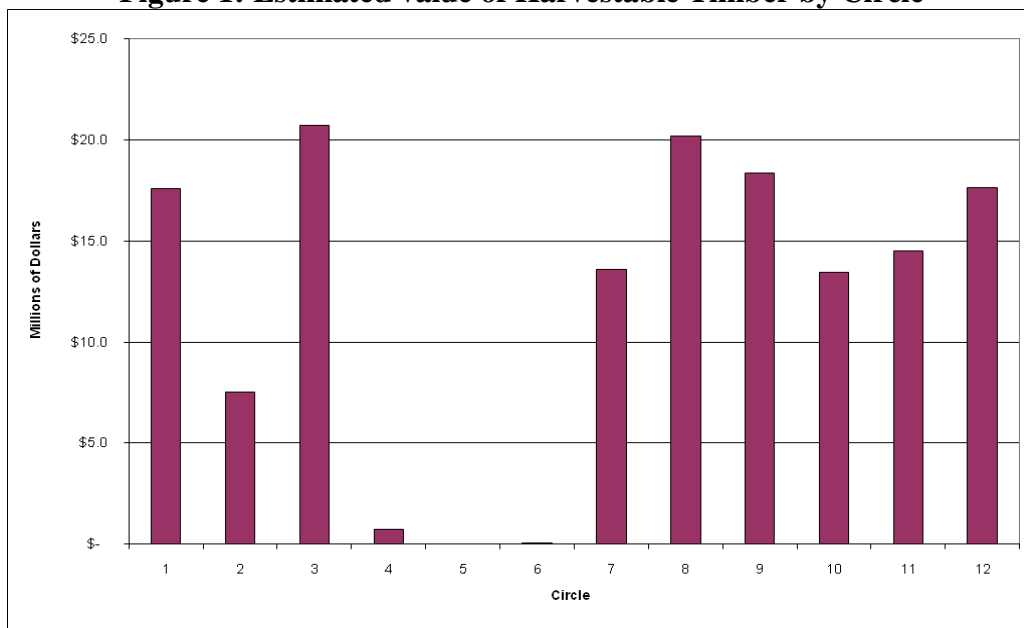
Column=====>			C-1	C-2	C-3	C-4	C-5	C-6
SOSEA	Site Center Designator	NSO_HABITAT CODE	Habitat Acres Including Core Areas	Volume/Acre Including Core Area*	Total Volume Including Core Area*	Estimated RMZ Volume*	Estimated Foregone Volume*	Estimated value of harvestable timber***
I-90W	1	Old Forest Habitat	482	17,050	8,222,874	1,070,002	7,152,872	\$ 1.5
		Sub-Mature Forest Habitat	705	43,340	30,568,569	3,977,738	26,590,831	\$ 6.4
		Mixed Forest Habitat	319	34,500	11,008,605	1,432,496	9,576,109	\$ 2.3
		Young Forest Marginal Habitat	919	37,430	34,411,645	4,477,819	29,933,826	\$ 7.2
		Total	2,426	34,711	84,211,693	10,958,055	73,253,637	\$ 17.6
	2	Old Forest Habitat	852	14,850	12,647,003	1,645,693	11,001,310	\$ 2.6
		Sub-Mature Forest Habitat	709	29,550	20,951,541	2,726,321	18,225,220	\$ 4.4
		Mixed Forest Habitat	184	13,790	2,530,879	329,331	2,201,548	\$ 0.5
		Total	1,744	20,714	36,129,422	4,701,345	31,428,077	\$ 7.6
		Finney Block	3	Old Forest Habitat	1,264	14,850	18,775,746	2,443,196
Sub-Mature Forest Habitat	172			45,310	7,794,226	1,014,225	6,780,002	\$ 1.6
Mixed Forest Habitat	1,461			46,500	67,913,715	8,837,279	59,076,436	\$ 14.2
Young Forest Marginal Habitat	109			43,340	4,743,130	617,200	4,125,929	\$ 1.0
Total	3,006			33,006	99,226,817	12,911,900	86,314,917	\$ 20.7
Mineral	4	Old Forest Habitat	207	14,850	3,078,851	400,636	2,678,215	\$ 0.6
		Mixed Forest Habitat	17	33,000	544,500	70,853	473,647	\$ 0.1
	Total	224	16,188	3,623,351	471,489	3,151,862	\$ 0.8	
	5	No Habitat	0		0		0	\$ -
6	Old Forest Habitat	5	14,850	74,993	9,758	65,234	\$ 0.0	
Total	5	14,850	74,993	9,758	65,234	\$ 0.0		
White Salmon	7	Young Forest Marginal Habitat - Closed Canopy	1,928	24,000	46,266,480	6,020,431	40,246,049	\$ 9.7
		Young Forest Marginal Habitat - Open Canopy	780	24,000	18,727,440	2,436,910	16,290,530	\$ 3.9
		Total	2,708	24,000	64,993,920	8,457,341	56,536,579	\$ 13.6
N. Blewett	8	Sub-Mature Forest Habitat	61	35,200	2,159,520	281,008	1,878,512	\$ 0.5
		Young Forest Marginal Habitat - Closed Canopy	1,856	38,000	70,540,540	9,179,095	61,361,445	\$ 14.7
		Young Forest Marginal Habitat - Open Canopy	798	30,000	23,940,300	3,115,234	20,825,066	\$ 5.0
		Total	2,716	35,586	96,640,360	12,575,337	84,065,023	\$ 20.2
I-90E	9	Sub-Mature Forest Habitat	88	35,200	3,095,136	402,755	2,692,381	\$ 0.6
		Young Forest Marginal Habitat - Closed Canopy	2,819	30,000	84,582,300	11,006,281	73,576,019	\$ 17.7
		Young Forest Marginal Habitat - Open Canopy	10	24,000	251,280	32,698	218,582	\$ 0.1
		Total	2,918	30,135	87,928,716	11,441,733	76,486,983	\$ 18.4
	10	Sub-Mature Forest Habitat	17	30,400	531,392	69,147	462,245	\$ 0.1
		Young Forest Marginal Habitat - Closed Canopy	2,502	24,000	60,038,400	7,812,503	52,225,897	\$ 12.5
		Young Forest Marginal Habitat - Open Canopy	155	24,000	3,719,040	483,940	3,235,100	\$ 0.8
	Total	2,674	24,042	64,288,832	8,365,591	55,923,241	\$ 13.4	
	11	Sub-Mature Forest Habitat	42	24,000	1,000,560	130,198	870,362	\$ 0.2
		Young Forest Marginal Habitat - Closed Canopy	2,185	30,000	65,543,100	8,528,803	57,014,297	\$ 13.7
		Young Forest Marginal Habitat - Open Canopy	120	24,000	2,880,720	374,854	2,505,866	\$ 0.6
Total		2,346	29,586	69,424,380	9,033,855	60,390,525	\$ 14.5	
Entiat Ridge**	12	Sub-Mature Forest Habitat	50	30,400	1,524,256	198,344	1,325,912	\$ 0.3
		Young Forest Marginal Habitat - Closed Canopy	2,157	30,000	64,703,400	8,419,537	56,283,863	\$ 13.5
		Young Forest Marginal Habitat - Open Canopy	478	38,000	18,148,040	2,361,516	15,786,524	\$ 3.8
		Total	2,685	31,431	84,375,696	10,979,396	73,396,300	\$ 17.6
Grand Totals			23,452	29,461	690,918,179	89,905,801	601,012,378	\$ 144.4
Average per Circle			1,954	29,461	57,576,515	7,492,150	50,084,365	\$ 12.0

* Volume in Board Feet

** Habitat Layer Updated after initial analysis

*** Millions of Dollars assumes \$209/mbf

Figure 1: Estimated value of Harvestable Timber by Circle



SMALL BUSINESS IMPACTS

The proposal does not require any change in reporting, recordkeeping, and other compliance requirements, nor is it anticipated that there will be an increase in the professional services that a small business is likely to need in order to comply with the proposed rules.

The Regulatory Fairness Act definition of small business is one with 50 or fewer employees. RCW 19.85.040 directs that:

To determine whether the proposed rule will have a disproportionate cost impact on small businesses, the impact statement must compare the cost of compliance for small business with the cost of compliance for the ten percent of businesses that are the largest businesses required to comply with the proposed rules ...

To make the comparison required in this statute, we obtained employment information from the Washington State Department of Employment Security. There are 46 separate businesses within the 12 subject circles classified as “resource production and extraction” lands per county records. Employment Security records show that 43 of those businesses employ 50 or fewer employees, which is the legal definition of “small business.” However, in this case, 5 of the 46 businesses are the “ten percent of businesses that are the largest businesses required to comply with the proposed rules.” So, we must compare the costs for the 5 largest businesses with the costs for the 41 smallest businesses that would be required to comply with the proposed rule.

Small business analysis: The largest businesses own 59 percent of the “resource production and extraction” lands in the 12 circles, while small businesses own 41 percent. Based on this information, we estimate the average value of harvestable timber for the largest businesses is \$1.4 million per firm ($\$12.0 \text{ million} \times 59\% / 5 = \$1.4 \text{ million per large business}$) while the average value for the small businesses is \$120,000 per firm ($\$12.0 \text{ million} \times 41\% / 41 = \$120,000 \text{ per small business}$).

This shows that the average value of timber owned by small business is about 8 percent (\$120,000/\$1,400,000) of that for the largest businesses. This comparison indicates that the proposed rule has no adverse disproportionate impact on small businesses when compared to the largest businesses.

Estimated Number of Jobs Created or Lost. RCW 19.85.040 (2)(d) requires that the economic analysis include “(a)n estimate of the number of jobs that will be created or lost as the result of compliance with the proposed rule.” In 2005, the Department of Employment Security showed 37,178 covered employments in the Forest and Logging, Wood Production, and Paper Manufacturing industries. This employment was supported by a harvest in Washington of 3.730 billion board feet, which results in approximately one primary job for every hundred thousand board feet harvested per year. Assuming a proportional relationship between timber volume and the timber related jobs, and given the total potential impact of 600 thousand board feet shown in Column C-5 of Table 1, this rule could have an estimated maximum impact of six jobs for one year, if this rule impacted all of the site centers, which is highly unlikely. The average impact of one site center would be just one half of a job for one year.

Reducing costs for small businesses. RCWs 19.85.030 and -.040 address an agency’s responsibility in rule making to consider how costs may be reduced for small businesses, based on the extent of disproportionate impact on the small businesses. We have found that this rule would not have a disproportionate impact on small businesses therefore no mitigation is required by the law. However, the existing forest practices rules do limit the restrictions for landowners owning less than 500 acres in a SOSEA to the area within the inner 0.7-mile circle of a site center, and this could be expected to reduce cost to small businesses.

LEAST BURDENSOME ALTERNATIVE

The Administrative Procedure Act states that agencies shall, after considering alternative versions of the rule, that the rule being adopted is the least burdensome alternative for those required for those required to comply with it that will achieve the general goals and specific objectives of the statute that the rule implements.

The Forest Practices Act indicates that, coincident with maintenance of a viable forest products industry, it is important to afford protection to a variety of public resources including wildlife.⁸ In addition, the Board’s rules include protection of critical habitats of threatened and endangered species, one of which is the Northern Spotted Owl.

Because of the precarious circumstances of Washington’s Northern Spotted Owl habitat and population (as explained in the “CONTEXT” section), the Board is considering a long-term conservation strategy for the conservation of spotted owl habitat. The rule currently under analysis is a temporary measure intended to ensure that habitat deemed to be currently unoccupied (as concluded from spotted owl protocol surveys) is not altered if it is determined to be potentially important to Washington’s spotted owl population.

⁸ RCW 76.09.010
July 2009

Adopting of the proposed rule would be less burdensome overall than not adopting the rule largely because, from the cost perspective it is a temporary measure, and from the wildlife conservation perspective it may conserve potentially important habitat for the spotted owl.

CONCLUSIONS

This economic analysis estimates the cost of the proposed rule to those who are required to comply with the rule. The costs are the result of the potential loss of harvest opportunity on lands within 12 owl circles potentially affected by the proposed rule. The analysis estimates that a total of \$144.4 million or an average of \$12 million worth of timber per site potentially could be impacted by the rule. However, the probability of even one of the twelve sites being impacted by this rule are judged to be very low, if not zero and therefore the expected value of the cost of this rule is only a fraction of the average value of timber per site of \$12 million. The cost could be from \$0 to \$144.4 million, depending on whether no site centers, or any number of site centers (between 1 and 12), are affected by the advisory group's analysis during the group's one-year life span.

This rule is intended to benefit Washington State's Northern Spotted Owl population. The Forest Practices Board has expressed the desire for additional analysis of any survey submitted to and approved by WDFW, in which a landowner demonstrated the absence of spotted owls at a spotted owl site center (circle), for the year 2009. It is expected that the proposed rule will add assurance that no potentially important habitat is lost through harvest while the Board determines any appropriate long-term changes to its rules related to spotted owl habitat conservation. The expected probability that even one of the 12 circles will be impacted by this rule is judged to be very low if not zero, and therefore the expected cost of the rule is proportionately low if not zero. Therefore it is reasonable to conclude that the probable benefits of the rule are greater than its probable costs, taking into account both the qualitative and quantitative benefits and costs of the proposed rule.

A comparison of the estimated potential impact to small business, and the 10 percent of the largest businesses that are required to comply with the rule, shows that the impact on small businesses is likely to be less per firm than for large business, and therefore would not disproportionately impact small businesses. Furthermore, the existing 500 acre rule helps to mitigate the impact on small businesses. Therefore the proposed rule is not expected to impose more than minor costs on Washington's small businesses as a whole, although it is possible that individual landowners will be impacted. The analysis indicates that the rule will have only a minor, if any, impact on overall employment.

Adopting the proposed rule would be less burdensome overall than not adopting the rule largely because, from the cost perspective it is a temporary measure, and from the wildlife conservation perspective it may conserve potentially important habitat for the spotted owl.

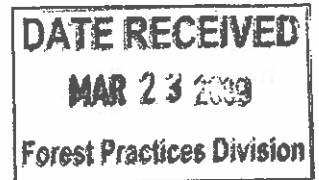
RESOURCES CITED

J. R. Dilworth, *Scaling and Timber Cruising* (1975).

Washington Forest Practices Board, *New Proposed Forest Practices Rules Cost-Benefit Analysis* (February 21, 2001).



State of Washington
Department of Fish and Wildlife



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March 23, 2009

Department of Natural Resources
Patricia Anderson, Forest Practices Board Rules Coordinator
Post Office Box 47012
Olympia, Washington 98504-7012

SUBJECT: Northern Spotted Owl Rule Proposal; 30-Day Comments

Dear Ms. Anderson:

The Washington Department of Fish and Wildlife (WDFW) has reviewed the rule proposal relative to decertification of northern spotted owl site centers. The rule proposal is consistent with the Forest Practices Board's recently adopted emergency rule, and would eliminate the moratorium on Northern Spotted Owl site center decertification, while establishing a "Spotted Owl Conservation Advisory Group" until December 31, 2009.

WDFW supports this rule proposal, and believes it makes an appropriate temporary modification to the former decertification moratorium rule. It is important to allow individual spotted owl site centers to be evaluated during 2009, while the Forest Practices Board and its Spotted Owl Working Group assess the current owl rules and investigates mechanisms to protect the spotted owl on Washington's non-federal forestland.

Thank you for the opportunity to provide input to the rule proposal.

Sincerely,

David Whipple
Forest Policy Coordinator