

APPENDIX B

APPENDIX B

Details of Cumulative Effects Analyses

1.0 Introduction

40 CFR 1508.7 defines cumulative impact as the impact on the environment which results from the incremental impact of the action when added to other past, present, and reasonably foreseeable future actions regardless of what agency (Federal or non-Federal) or person undertakes such other actions.

In its simplest terms, the procedure for assessing the impacts of an action on any resource consists of identifying the conditions of the resource prior to the action, and determining the effects of that action on those attributes. The logic being that if a resource does not provide the desired attributes prior to the action, then that action would not result in the loss of those characteristics.

In the case of past actions several factors complicate identification of the resource's characteristics prior to those activities. Many of the past activities occurred several decades ago, in some cases before enactment of the National Environmental Policy Act of 1969. Records of field collected, site-specific data predating most of these past management activities are not available. In other cases the data collected was of a type or sampling scheme that is of little value in this type of analysis. In yet other cases the past disturbance was not planned, such as a wildfire, and therefore no records describing site characteristics were collected before the disturbance.

Another complication of past activities is how to reflect the amount and/or type of recovery that has occurred since the activity. Contrary to the perception that once affected a site will never again provide suitable habitat for a given species or attain large tree size class, a past activity that resulted in the loss of a desirable characteristic 50 years ago could conceivably have recovered to a point of once again providing that attribute. Therefore for the purposes of this analysis, no attempt was made to quantify the specific impacts that resulted from each individual past action or the various increments of recovery that have occurred since that past action. However, the most recent data available was used to identify the existing attributes within the cumulative effects areas, thereby reflecting the impacts of those past actions and/or any recovery that may have occurred.

In the case of stand characteristics and/or suitable habitat for terrestrial wildlife species, neither pre-fire nor post-fire reliable stand examination data was available for the 103,804 acre project area. Therefore 1996 LANDSAT data was used to determine the pre-fire conditions, and data derived from the BARC and RAVG models used to project the post-fire conditions within cumulative effects areas.

Similarly, the effects of past activities, including the 2007 wildfire, are reflected in descriptions of the existing post-fire conditions for the watershed and fisheries resources. BOISED modeling completed for this assessment reflects sediment attributable to past harvest and wildfires, as well as existing roads and any completed restoration activities or natural recovery. The assessment for Water Yield/ECA relied heavily on data derived from the BARC and RAVG models to determine the existing post-fire conditions and therefore reflects any impacts attributable to past activities. Although the specific effects associated with each past activity and/or recovery cannot be quantified, descriptions of the existing characteristics of all resources displayed in Chapter 3 reflect the impacts of those past activities as well as any recovery that has occurred.

Rather than repeat the same discussions numerous times, the past, ongoing, and foreseeable future activities common to different resource assessments have been combined in the following discussions. The leading paragraph of each section that follows identifies those resource assessments common to that cumulative effects area, followed by a description of the past, ongoing, and foreseeable future activities considered in the assessment for that particular resource.

SECTION 2.0

This section of the document discusses those past, ongoing, and reasonably foreseeable future actions considered in the cumulative effects analyses completed for: **Potential Vegetation Groups; Tree Size Class; Cover Types; Cultural Resources; Financial Assessment; Boreal Owl; Peregrine Falcon; Mountain Quail; Greater Sage Grouse; Western Big-eared Bat; Spotted Bat; and; Spotted Frog.**

2.1 Past Harvest Activities within the 103,804 Acre Cumulative Effects Area

Since 1950 an estimated 7,208 acres have been harvested within the cumulative effects area. Table 1 displays timber sales by year cut and acres harvested within the cumulative effects area. Silvicultural prescriptions varied in intensity and included seed cut, final removal, and preparation cut shelterwoods; clearcut; salvage; sanitation, and; individual tree selection.

Table 1 Past Timber Harvest

Sale Name	Year Cut	Acres
Old Cabin Creek	1950	211
Cabin Creek Houselog	1950	19
Kline Mountain	1954	217
Old Two Bit	1955	134
Old Cabin Creek	1955	7
Old Cabin Creek	1956	15
Trail Creek	1957	721
Upper Dollar Creek	1958	525
Chipmunk	1958	6
Six Bit	1958	38
Knox	1959	20
Two Bit	1959	31
Blue Point	1960	210
Two Bit	1960	244
Two Bit PC	1960	111
Bear Creek	1961	48
Roaring Creek	1961	30
Two Bit	1961	7
Mirror Creek	1961	21
Railroad Pass	1962	70
Cabin Creek Houselog	1963	5
Cabin Creek I	1963	177
Railroad Pass	1963	260
Six Bit	1963	3
South Fork Salmon	1964	64
Camp Creek	1964	335
Railroad Pass	1964	121
Camp Creek	1965	27
Dollar Creek	1965	499
South Fork Salmon	1965	270
Six Bit	1965	511
Blue Point	1966	39
Tyndall Creek	1966	201
Curtis Creek	1967	300
Tyndall Creek	1967	162
Curtis Creek	1968	58
Bear Creek Helicopter	1980	79
Roaring Creek	1981	106

Table 1 Past Timber Harvest (cont.)

Sale Name	Year Cut	Acres
Cabin Creek II	1985	107
Public Post & Pole	1986	74
Post & Pole Research	1986	13
Wildlife Clearcut	1993	8
Gump Commercial P & P	1994	12
SF Road Slash	1994	2
Six Bit PC	1995	13
Dead Washer	1996	116
Thunderbolt Salvage	1996	72
Public Post & Pole	1999	9
South Fork Houselogs	2006	330
Knox Salvage	2006	55
Cabin Salvage	2006	308
Power Salvage	2007	187

2.2 Past Wildfire Activities within the 103,804 Acre Cumulative Effects Area

Since 1910 roughly 67,853 acres within the cumulative effects area have been affected by wildfire. It should be noted that many of these acres, particularly those impacted in 2007, also burned in 2003 and/or 1994. Rather than list these acres twice, Table 2 reflects the most recent occurrence of wildfire on those acres, and the year of that wildfire.

Table 2 Past Wildfires

Wildfire Name	Year	Acres
Unknown	1910	1
Thunderbolt Wildfire	1994	2,206
South Fork Wildfire	2003	5,014
Cascade Complex Wildfire	2007	60,632

Figure 1 discloses the locations of past harvest and wildfire activities to the extent practicable and where the exact location is known.

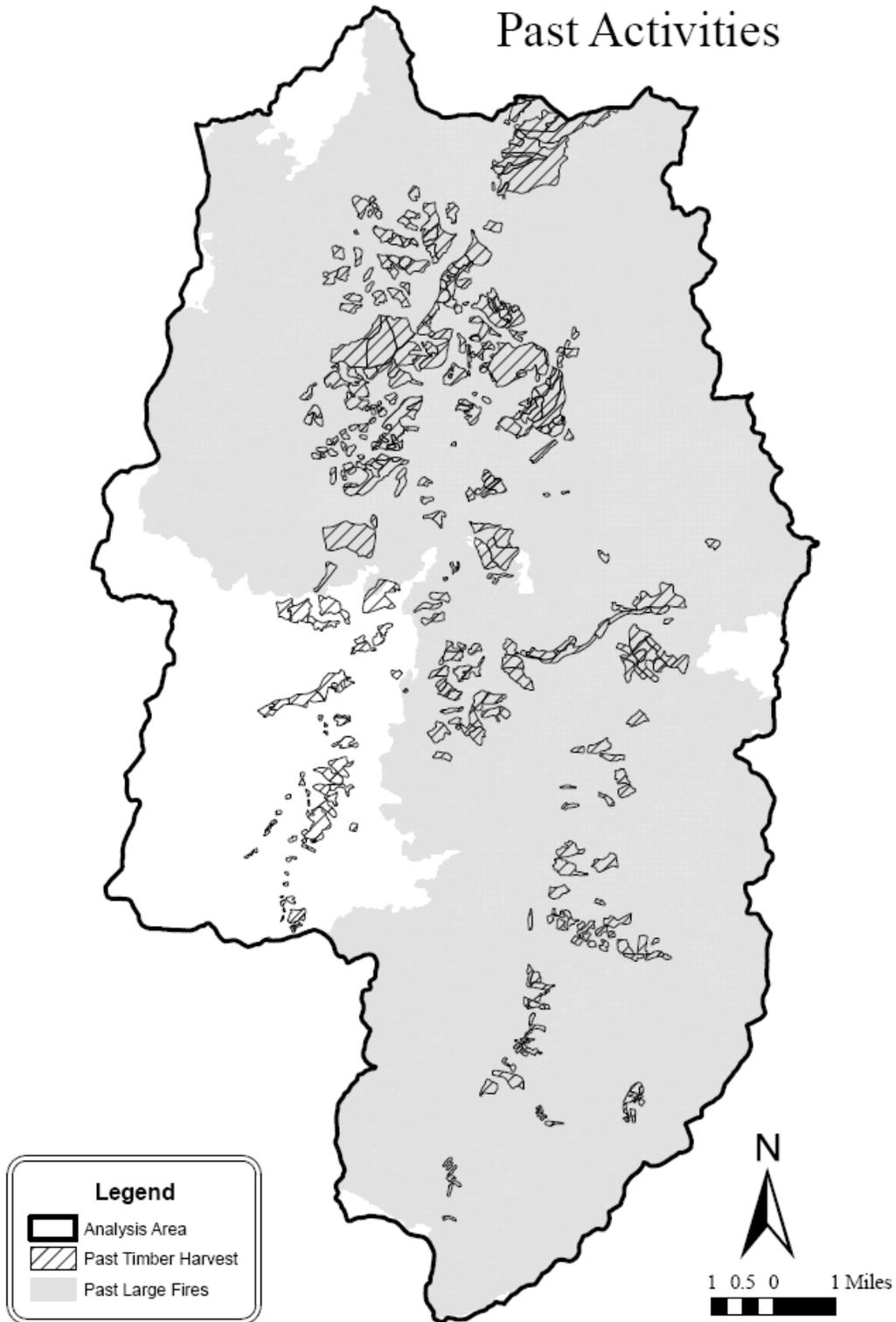
2.3 Ongoing and Foreseeable Future Activities within the 103,804 Acre Cumulative Effects Area

For the purposes of this analysis any activity currently under contract or with a signed NEPA decision was considered an ongoing activity. Although circumstances such as litigation could prevent or delay implementation of these actions, it was assumed that they will proceed as described in their respective contracts and/or decision documents.

Given the lack of any direct or indirect effects associated with proposed action alternatives, there are no ongoing or foreseeable future activities within this cumulative effects area that could add incrementally to impacts on these resources.

Figure 1 Past Activities within 103,804 Acre Cumulative Effects Area

SFSR Hazard Tree Removal Past Activities



SECTION 3.0

This section of the document discusses those past, ongoing, and reasonably foreseeable future actions considered in the cumulative effects analyses completed for: **Regeneration/Aspen**. The discussion relative to conifer regeneration is specific to those openings caused by management activities. There is no requirement to reforest areas denuded by a wildfire. Therefore wildfire was not considered as a potential incremental impact on conifer regeneration. However, as discussed in Chapter 3, wildfire usually eliminates conifer trees, which are often inhibiting the growth of aspen. Stated another way, wildfire often indirectly encourages the growth and/or release of aspen clones.

3.1 Past Harvest Activities within the 103,804 Acre Cumulative Effects Area

Since 1950 an estimated 7,208 acres have been harvested within the cumulative effects area. Table 1 displays timber sales by year cut and acres harvested within the cumulative effects area. Silvicultural prescriptions varied in intensity and included seed cut, final removal, and preparation cut shelterwoods; clearcut; salvage; sanitation, and; individual tree selection.

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Blue Point	1966	39
Tyndall Creek	1966	201
Curtis Creek	1967	300
Tyndall Creek	1967	162
Curtis Creek	1968	58

SFSR Hazard Tree Removal Project

Table 1 Past Timber Harvest (cont.)

Sale Name	Year Cut	Acres
Bear Creek Helicopter	1980	79
Roaring Creek	1981	106
Cabin Creek II	1985	107
Public Post & Pole	1986	74
Post & Pole Research	1986	13
Wildlife Clearcut	1993	8
Gump Commercial P & P	1994	12
SF Road Slash	1994	2
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Thunderbolt Salvage	1996	72
Public Post & Pole	1999	9
South Fork Houselogs	2006	330
Knox Salvage	2006	55
Cabin Salvage	2006	308
Power Salvage	2007	187

3.2 Past Wildfire Activities within the 103,804 Acre Cumulative Effects Area

Since 1910 roughly 67,853 acres within the cumulative effects area have been affected by wildfire. It should be noted that many of these acres, particularly those impacted in 2007, also burned in 2003 and/or 1994. Rather than list these acres twice, Table 2 reflects the most recent occurrence of wildfire on those acres, and the year of that wildfire.

Table 2 Past Wildfires

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Figure 1 discloses the locations of past harvest and wildfire activities to the extent practicable and where the exact location is known.

3.3 Ongoing and Foreseeable Future Activities within the 103,804 Acre Cumulative Effects Area

For the purposes of this analysis any activity currently under contract or with a signed NEPA decision was considered an ongoing activity. Although circumstances such as litigation could prevent or delay implementation of these actions, it was assumed that they will proceed as described in their respective contracts and/or decision documents.

Ongoing or foreseeable future activities within this cumulative effects area that could add incrementally to impacts on these resources include:

South Fork Campground Restoration Project – While still in the developmental phase, the objective of this project would be to minimize the fire-induced effects of the 2007 wildfire on the 10 acre South Fork Campground by removing hazard trees, planting conifers, and implementing other restorative activities. The environmental analysis for this project is tentatively scheduled to occur in 2008 with implementation in 2009 or 2010.

Shoreline Fuels Reduction Project – This project consists of mechanical mulching of 32 acres of sub-merchantable trees and hand thinning and piling of 77 acres of sub-merchantable trees, all in the vicinity of the Shoreline Campground. Implementation is scheduled to occur in 2008.

Tyndall Stolle Reforestation Project – This project consists of planting conifers on an estimated 4,127 acres that burned at a high or moderate intensity where competing vegetation is expected and/or where no seed source is present to facilitate natural regeneration. Planting activities are projected to occur in the spring and fall of 2008 and 2009.

Figure 2 discloses the locations of ongoing and foreseeable future activities to the extent practicable and where the exact location is known.

Figure 1 Past Activities within 103,804 Acre Cumulative Effects Area

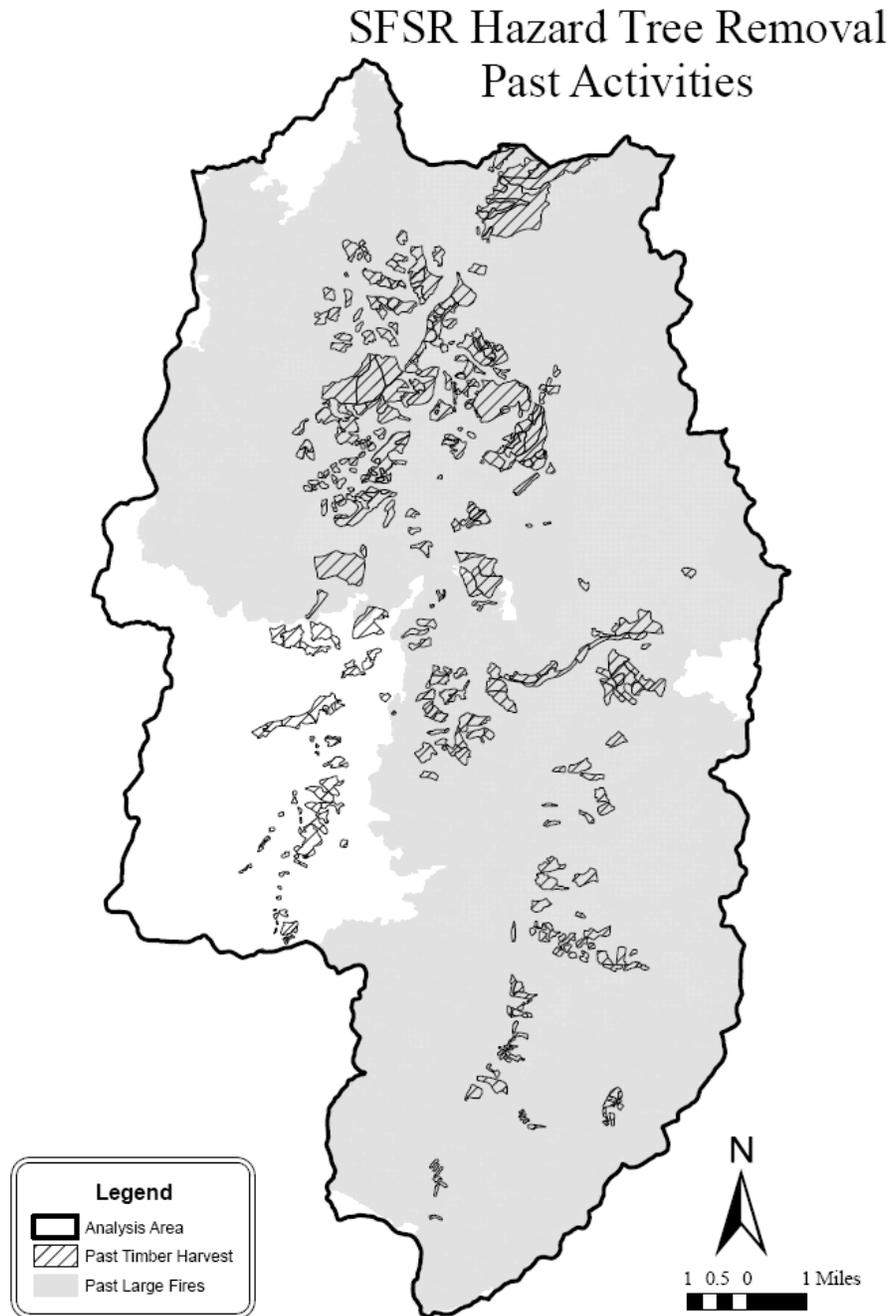
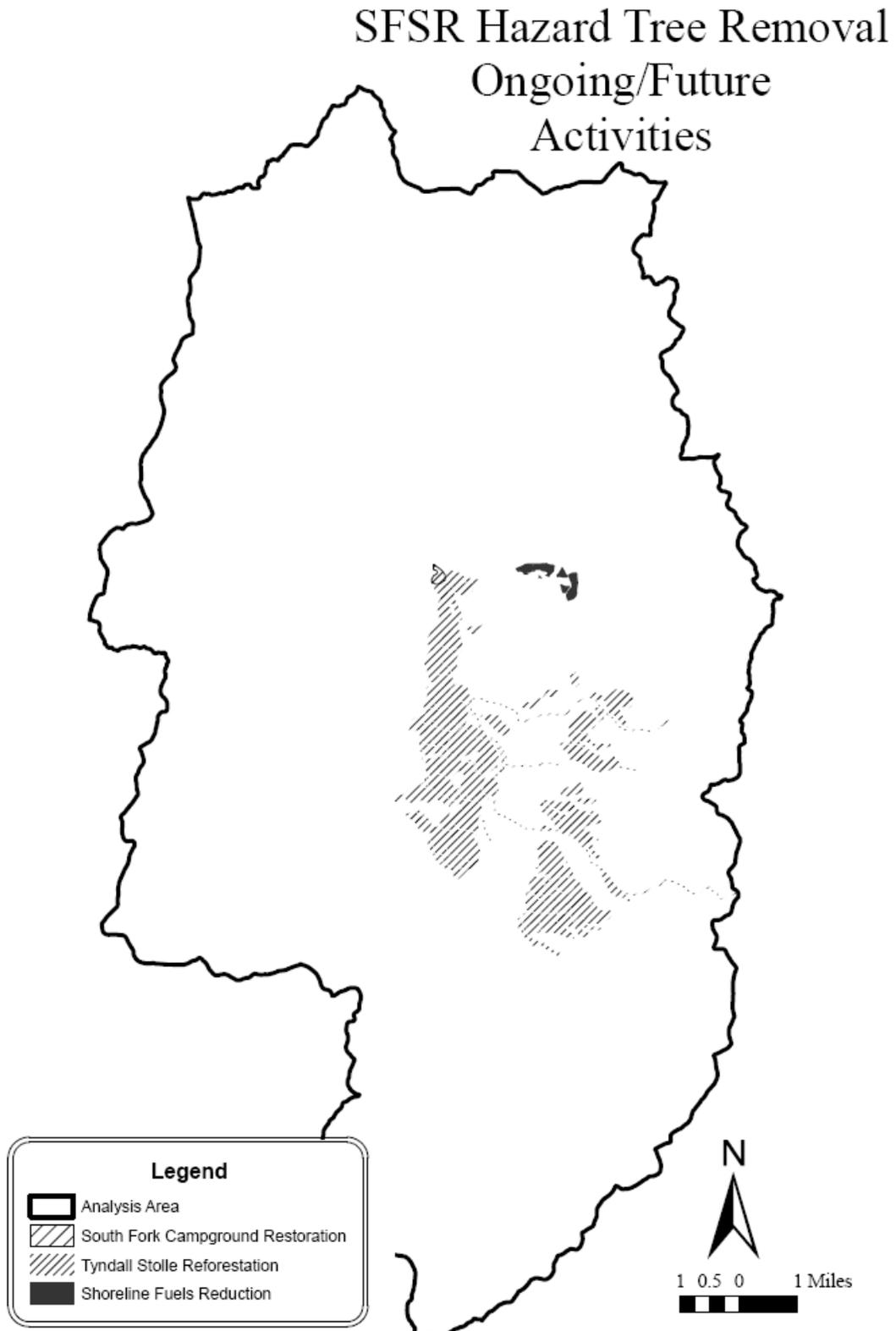


Figure 2 Ongoing and Foreseeable Future Activities within 103,804 Acre Cumulative Effects Area



SECTION 4.0

This section of the document discusses those past, ongoing, and reasonably foreseeable future actions considered in the cumulative effects analyses completed for: **Created Openings**. The discussion relative to created openings is specific to those openings caused by management activities. Therefore wildfire was not considered as a potential incremental impact on this resource.

4.1 Past Harvest Activities within the 103,804 Acre Cumulative Effects Area

Since 1950 an estimated 7,208 acres have been harvested within the cumulative effects area. Table 1 displays timber sales by year cut and acres harvested within the cumulative effects area. Silvicultural prescriptions varied in intensity and included seed cut, final removal, and preparation cut shelterwoods; clearcut; salvage; sanitation, and; individual tree selection.

Table 1 Past Timber Harvest

Sale Name	Year Cut	Acres
Old Cabin Creek	1950	211
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Blue Point	1966	39
Tyndall Creek	1966	201
Curtis Creek	1967	300
Tyndall Creek	1967	162
Curtis Creek	1968	58

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Table 1 Past Timber Harvest (cont.)

Sale Name	Year Cut	Acres
Bear Creek Helicopter	1980	79
Roaring Creek	1981	106
Cabin Creek II	1985	107
Public Post & Pole	1986	74
Post & Pole Research	1986	13
Wildlife Clearcut	1993	8
Gump Commercial P & P	1994	12
SF Road Slash	1994	2
Six Bit PC	1995	13
Dead Washer	1996	116
Thunderbolt Salvage	1996	72
Public Post & Pole	1999	9
South Fork Houselogs	2006	330
Knox Salvage	2006	55
Cabin Salvage	2006	308
Power Salvage	2007	187

Figure 1 discloses the locations of past activities to the extent practicable and where the exact location is known.

4.2 Ongoing and Foreseeable Future Activities within the 103,804 Acre Cumulative Effects Area

For the purposes of this analysis any activity currently under contract or with a signed NEPA decision was considered an ongoing activity. Although circumstances such as litigation could prevent or delay implementation of these actions, it was assumed that they will proceed as described in their respective contracts and/or decision documents.

Personal use firewood cutting would not result in management created openings. Similarly, the removal of dead trees via salvage sales would not result in management created openings.

Ongoing or foreseeable future activities within this cumulative effects area that could add incrementally to impacts on these resources include:

Shoreline Fuels Reduction Project – This project consists of mechanical mulching of 32 acres of sub-merchantable trees and hand thinning and piling of 77 acres of sub-merchantable trees, all in the vicinity of the Shoreline Campground. Implementation is scheduled to occur in 2008.

Figure 2 discloses the locations of ongoing and foreseeable future activities to the extent practicable and where the exact location is known.

Figure 1 Past Activities within 103,804 Acre Cumulative Effects Area

SFSR Hazard Tree Removal Past Activities

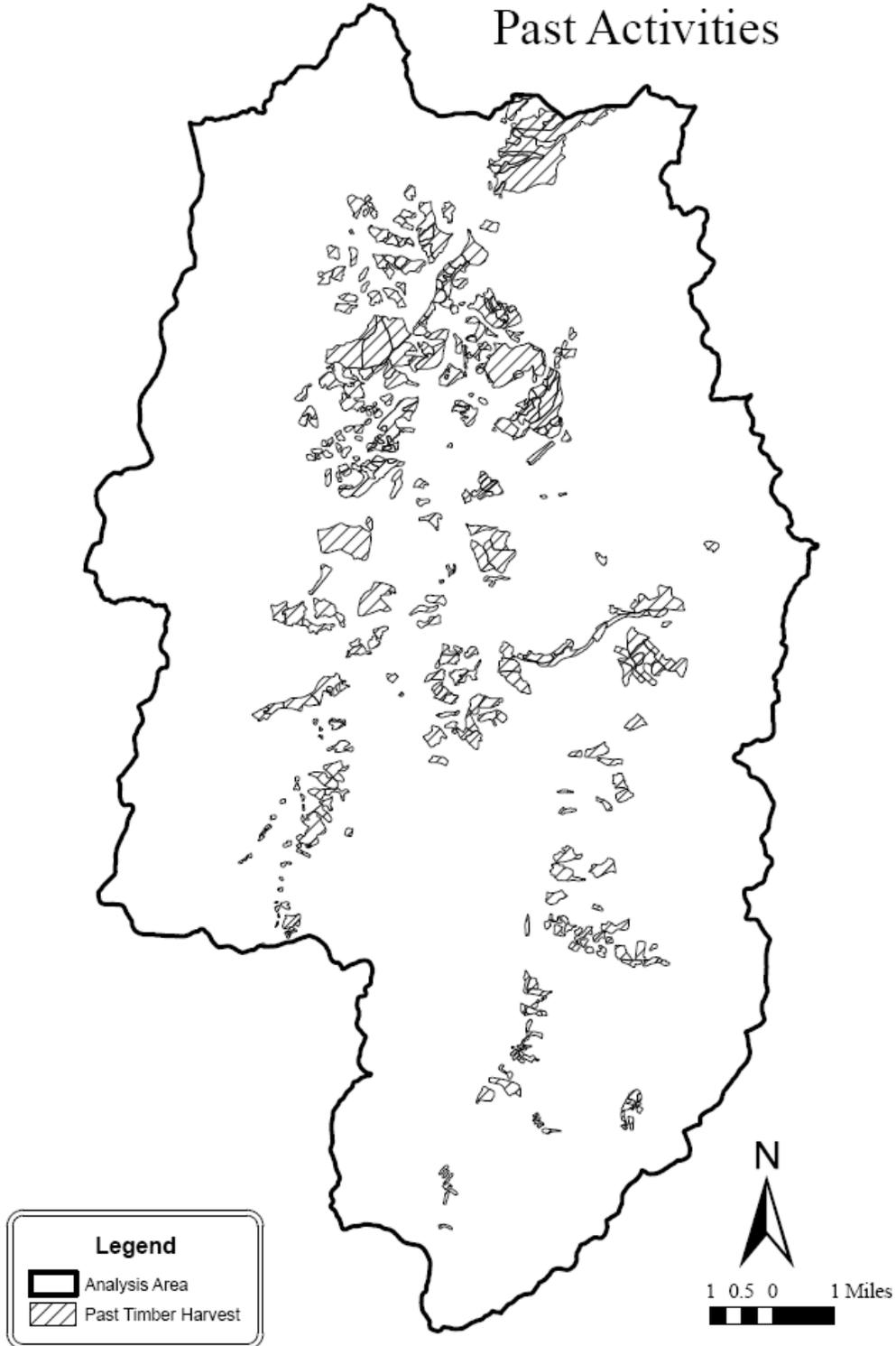
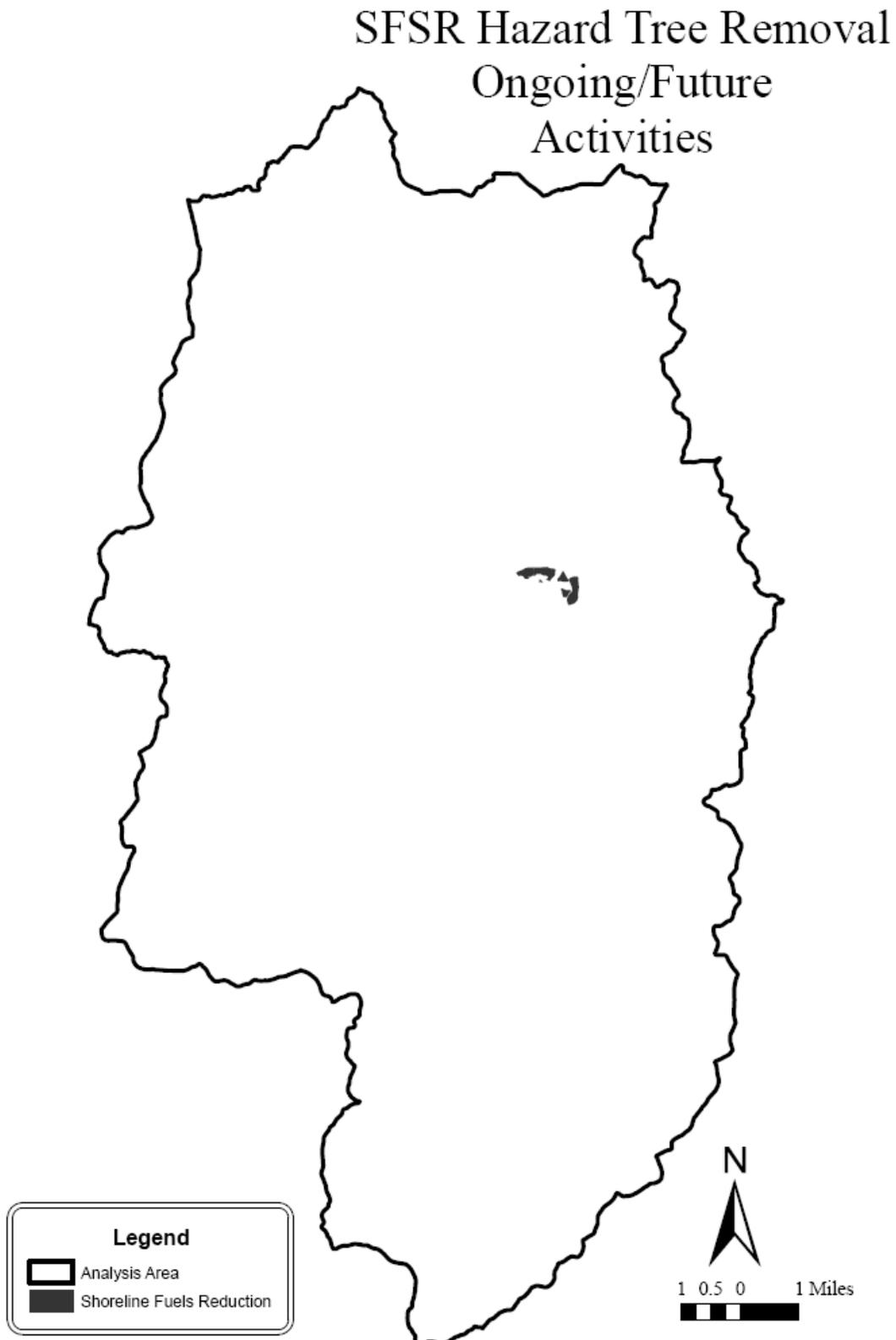


Figure 2 Foreseeable Future Activities within 103,804 Acre Cumulative Effects Area



SECTION 5.0

This section of the document discusses those past, ongoing, and reasonably foreseeable future actions considered in the cumulative effects analyses completed for: **Fire-killed Trees, Snags, Forest Insects; Fuel Loads and Fire Risk; Canopy Closure, and; Coarse Woody Debris..**

5.1 Past Harvest Activities within the 103,804 Acre Cumulative Effects Area

Since 1950 an estimated 7,208 acres have been harvested within the cumulative effects area. Table 1 displays timber sales by year cut and acres harvested within the cumulative effects area. Silvicultural prescriptions varied in intensity and included seed cut, final removal, and preparation cut shelterwoods; clearcut; salvage; sanitation, and; individual tree selection.

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5.2 Past Wildfire Activities within the 103,804 Acre Cumulative Effects Area

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Figure 1 discloses the locations of past harvest and wildfire activities to the extent practicable and where the exact location is known.

5.3 Ongoing and Foreseeable Future Activities within the 103,804 Acre Cumulative Effects Area

For the purposes of this analysis any activity currently under contract or with a signed NEPA decision was considered an ongoing activity. Although circumstances such as litigation could prevent or delay implementation of these actions, it was assumed that they will proceed as described in their respective contracts and/or decision documents.

Ongoing or foreseeable future activities within this cumulative effects area that could add incrementally to impacts on these resources include:

Personal Use Firewood - Personal use firewood cutting is expected to continue into the foreseeable future and would likely reduce the quantity of fire-damaged trees within 100 to 200 feet of open roads.

Cabin Salvage, Knox Salvage, and South Fork Houselog Salvage I Sales – These three salvage sales, all under contract to the same Purchaser, were offered following the 2003 South Fork Wildfire. At this time the majority of the included timber has already been removed. However, the Purchaser is expected to continue to remove small amounts of fire-killed and imminently dead timber in 2008.

Power Salvage Sale – This salvage sale permits the removal of downed trees only from 66 acres within sections of the right-of-way of the overhead power line in the Warm Lake Basin. This contract is projected to terminate in July of 2008.

South Fork Campground Restoration Project – While still in the developmental phase, the objective of this project would be to minimize the fire-induced effects of the 2007 wildfire on the 10 acre South Fork Campground by removing hazard trees, planting conifers, and implementing other restorative activities. The environmental analysis for this project is tentatively scheduled to occur in 2008 with implementation in 2009 or 2010.

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Figure 2 discloses the locations of ongoing and foreseeable future activities to the extent practicable and where the exact location is known.

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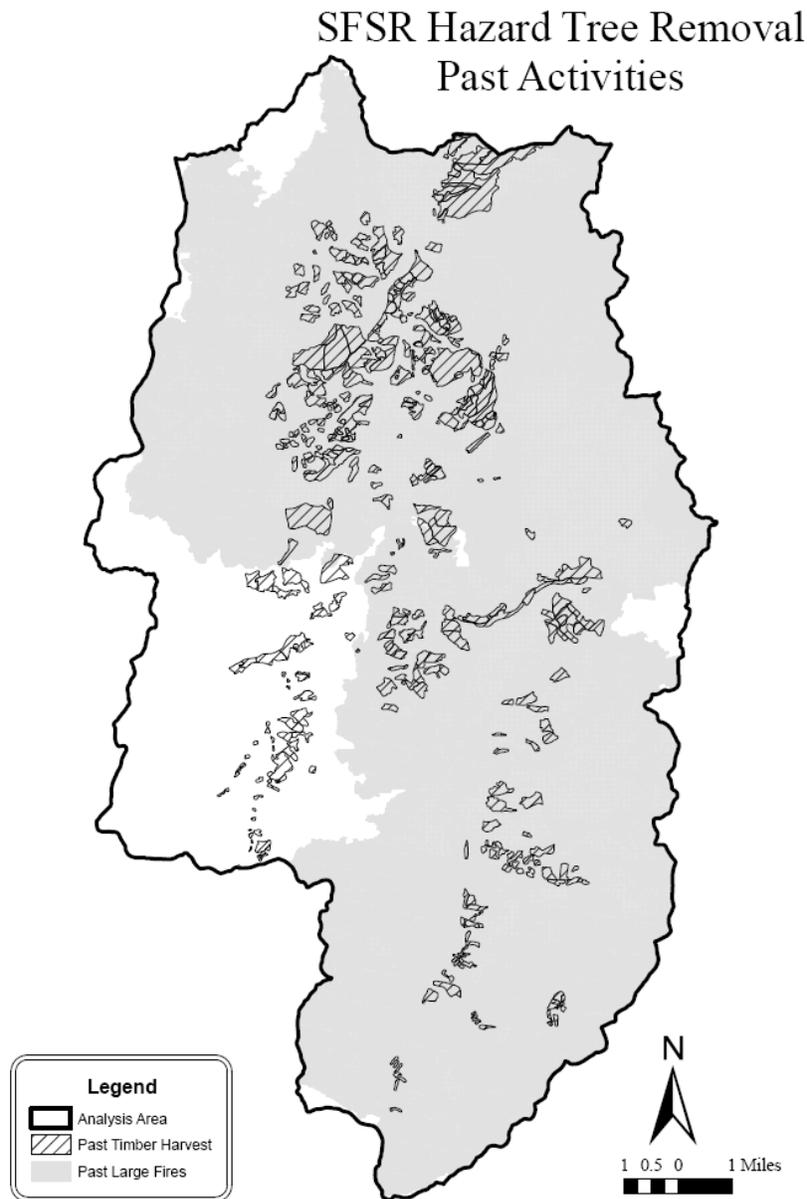


Figure 2 Ongoing and Foreseeable Future Activities within 103,804 Acre Cumulative Effects Area



SECTION 6.0

This section of the document discusses those past, ongoing, and reasonably foreseeable future actions considered in the cumulative effects analyses completed for: **Air Quality**.

6.1 Past Harvest Activities within the 103,804 Acre Cumulative Effects Area

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Roaring Creek	1981	106
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Table 1 Past Timber Harvest (cont.)

Sale Name	Year Cut	Acres
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Cabin Salvage, Knox Salvage, and South Fork Houselog Salvage I Sales – These three salvage sales, all under contract to the same Purchaser, were offered following the 2003 South Fork Wildfire. At this time the majority of the included timber has already been removed. However, the Purchaser is expected to continue to remove small amounts of fire-killed and imminently dead timber in 2008.

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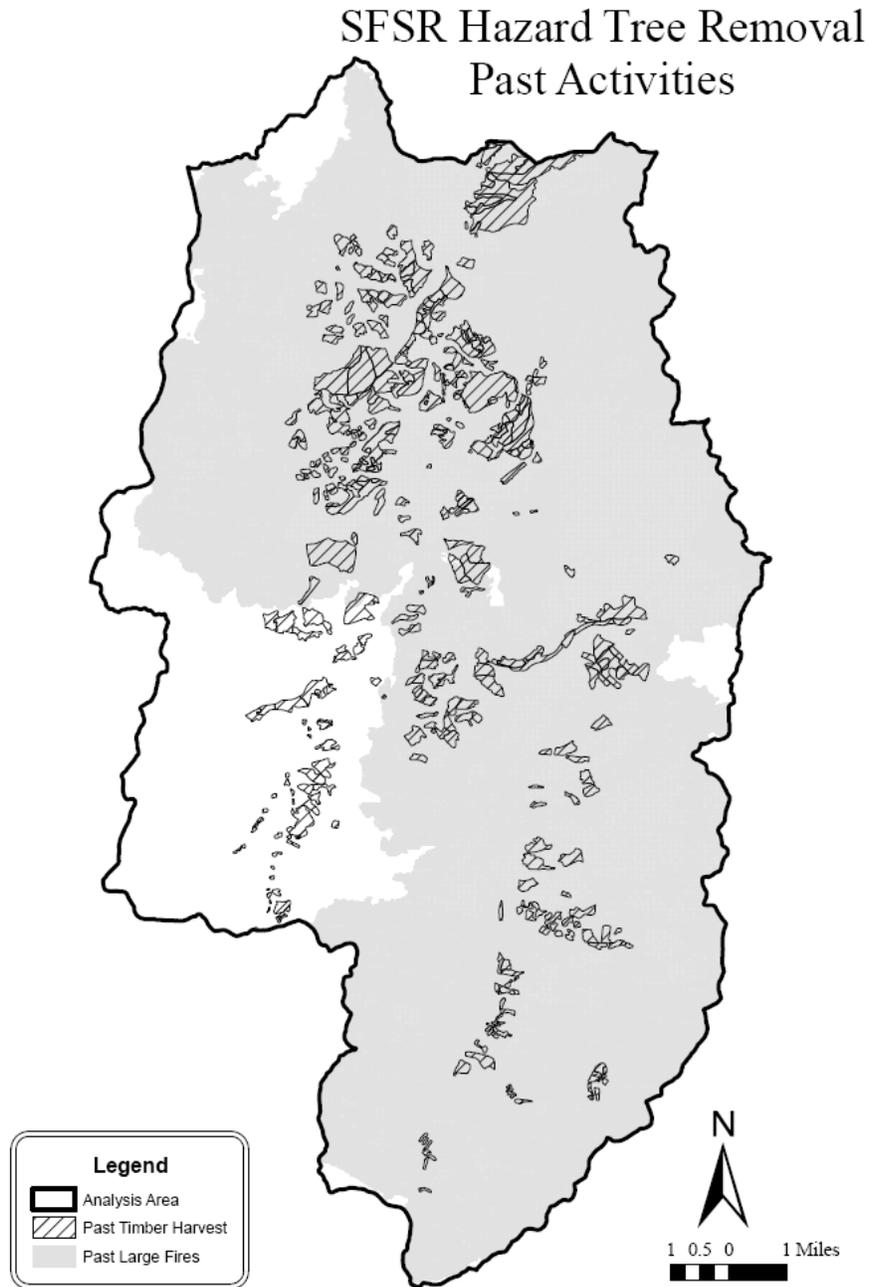


Figure 2 Ongoing and Foreseeable Future Activities within 103,804 Acre Cumulative Effects Area



SECTION 7.0

This section of the document discusses those past, ongoing, and reasonably foreseeable future actions considered in the cumulative effects analyses completed for: **Wilderness Attributes and Roadless Area Characteristics**. Although wildfire can certainly impact the vegetative characteristics of an inventoried roadless area (IRA), this is typically considered a natural disturbance that does not result in development of that IRA. Therefore wildfire was not considered as a potential incremental impact on wilderness attributes.

7.1 Past Harvest Activities within the 103,804 Acre Cumulative Effects Area

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SFSR Hazard Tree Removal Project

Table 1 Past Timber Harvest (cont.)

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Gump Commercial P & P	1994	12
SF Road Slash	1994	2
Six Bit PC	1995	13
Dead Washer	1996	116
Thunderbolt Salvage	1996	72
Public Post & Pole	1999	9
South Fork Houselogs	2006	330
Knox Salvage	2006	55
Cabin Salvage	2006	308
Power Salvage	2007	187

Figure 1 discloses the locations of past activities to the extent practicable and where the exact location is known.

7.2 Ongoing and Foreseeable Future Activities within the 103,804 Acre Cumulative Effects Area

For the purposes of this analysis any activity currently under contract or with a signed NEPA decision was considered an ongoing activity. Although circumstances such as litigation could prevent or delay implementation of these actions, it was assumed that they will proceed as described in their respective contracts and/or decision documents.

Ongoing or foreseeable future activities within this cumulative effects area that could add incrementally to impacts on these resources include:

Cabin Salvage, Knox Salvage, and South Fork Houselog Salvage I Sales – These three salvage sales, all under contract to the same Purchaser, were offered following the 2003 South Fork Wildfire. At this time the majority of the included timber has already been removed. However, the Purchaser is expected to continue to remove small amounts of fire-killed and imminently dead timber in 2008.

Power Salvage Sale – This salvage sale permits the removal of downed trees only from 66 acres within sections of the right-of-way of the overhead power line in the Warm Lake Basin. This contract is projected to terminate in July of 2008.

South Fork Campground Restoration Project – While still in the developmental phase, the objective of this project would be to minimize the fire-induced effects of the 2007 wildfire on the 10 acre South Fork Campground by removing hazard trees, planting conifers, and implementing other restorative activities. The environmental analysis for this project is tentatively scheduled to occur in 2008 with implementation in 2009 or 2010.

Shoreline Fuels Reduction Project – This project consists of mechanical mulching of 32 acres of sub-merchantable trees and hand thinning and piling of 77 acres of sub-merchantable trees, all in the vicinity of the Shoreline Campground. Implementation is scheduled to occur in 2008.

Tyndall Stolle Reforestation Project – This project consists of planting conifers on an estimated 4,127 acres that burned at a high or moderate intensity where competing vegetation is expected and/or where no seed source is present to facilitate natural regeneration. Planting activities are projected to occur in the spring and fall of 2008 and 2009.

Figure 2 discloses the locations of ongoing and foreseeable future activities to the extent practicable and where the exact location is known.

Figure 1 Past Activities within 103,804 Acre Cumulative Effects Area

SFSR Hazard Tree Removal Past Activities

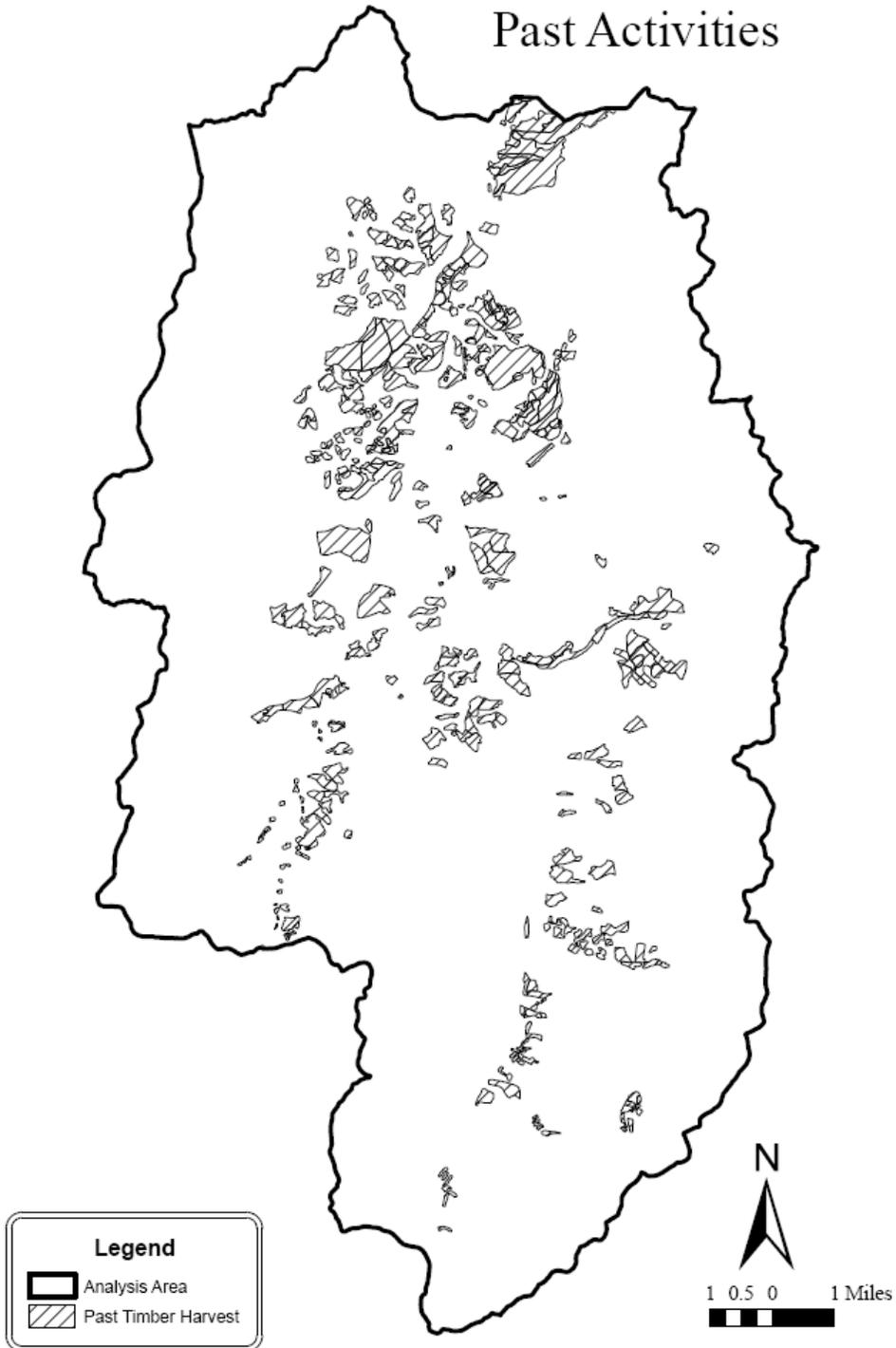
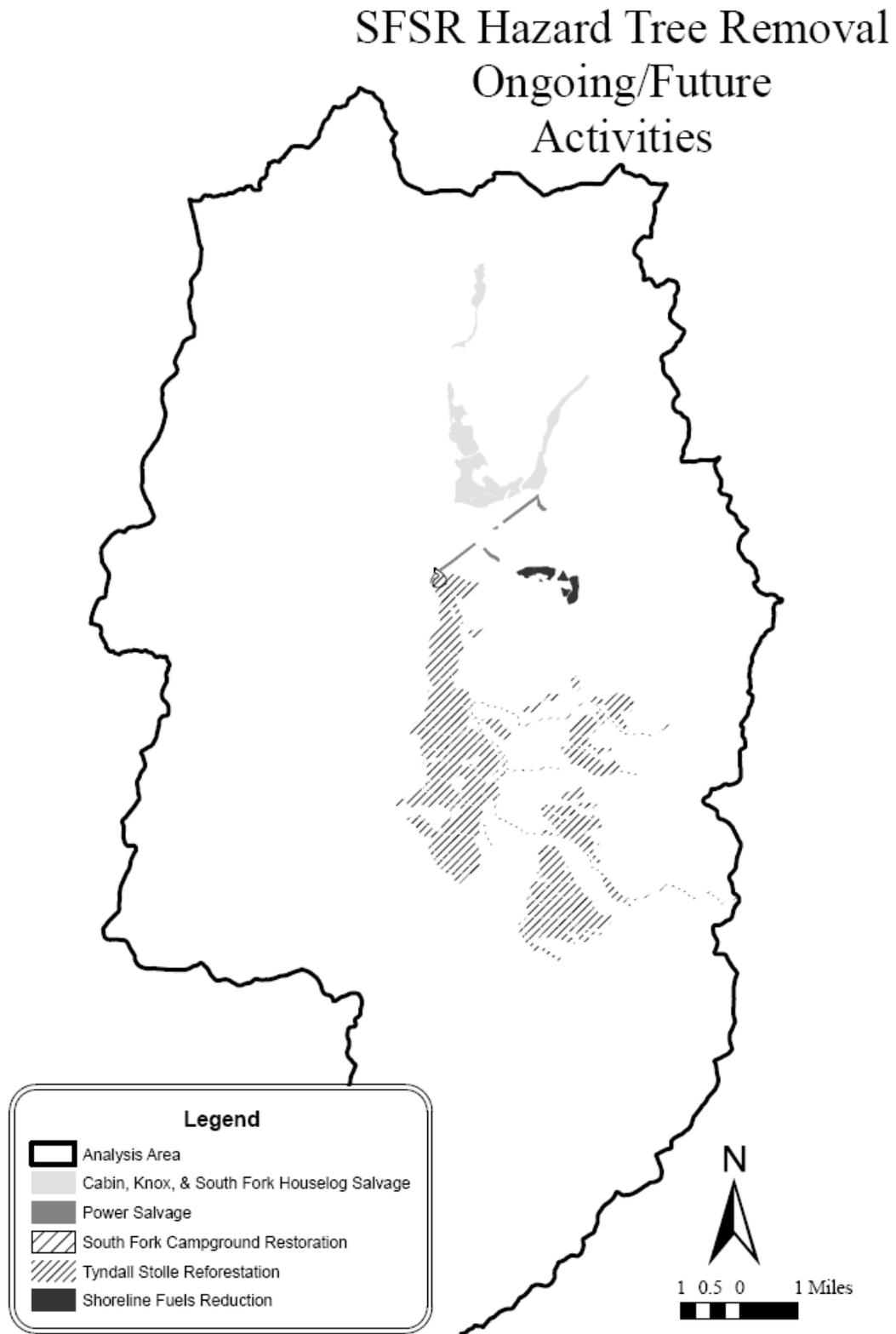


Figure 2 Foreseeable Future Activities within 103,804 Acre Cumulative Effects Area



SECTION 8.0

This section of the document discusses those past, ongoing, and reasonably foreseeable future actions considered in the cumulative effects analyses completed for: **Noxious Weeds and Threatened, Endangered, Proposed, Candidate, Sensitive, and Forest Watch Plant Species.**

8.1 Past Harvest Activities within the 103,804 Acre Cumulative Effects Area

Since 1950 an estimated 7,208 acres have been harvested within the cumulative effects area. Table 1 displays timber sales by year cut and acres harvested within the cumulative effects area. Silvicultural prescriptions varied in intensity and included seed cut, final removal, and preparation cut shelterwoods; clearcut; salvage; sanitation, and; individual tree selection.

Table 1 Past Timber Harvest

Sale Name	Year Cut	Acres
Old Cabin Creek	1950	211
Cabin Creek Houselog	1950	19
Kline Mountain	1954	217
Old Two Bit	1955	134
Old Cabin Creek	1955	7
Old Cabin Creek	1956	15
Trail Creek	1957	721
Upper Dollar Creek	1958	525
Chipmunk	1958	6
Six Bit	1958	38
Knox	1959	20
Two Bit	1959	31
Blue Point	1960	210
Two Bit	1960	244
Two Bit PC	1960	111
Bear Creek	1961	48
Roaring Creek	1961	30
Two Bit	1961	7
Mirror Creek	1961	21
Railroad Pass	1962	70
Cabin Creek Houselog	1963	5
Cabin Creek I	1963	177
Railroad Pass	1963	260
Six Bit	1963	3
South Fork Salmon	1964	64
Camp Creek	1964	335
Railroad Pass	1964	121
Camp Creek	1965	27
Dollar Creek	1965	499
South Fork Salmon	1965	270
Six Bit	1965	511
Blue Point	1966	39
Tyndall Creek	1966	201
Curtis Creek	1967	300
Tyndall Creek	1967	162
Curtis Creek	1968	58
Bear Creek Helicopter	1980	79
Roaring Creek	1981	106
Cabin Creek II	1985	107
Public Post & Pole	1986	74

SFSR Hazard Tree Removal Project

Table 1 Past Timber Harvest (cont.)

Sale Name	Year Cut	Acres
Post & Pole Research	1986	13
Wildlife Clearcut	1993	8
Gump Commercial P & P	1994	12
SF Road Slash	1994	2
Six Bit PC	1995	13
Dead Washer	1996	116
Thunderbolt Salvage	1996	72
Public Post & Pole	1999	9
South Fork Houselogs	2006	330
Knox Salvage	2006	55
Cabin Salvage	2006	308
Power Salvage	2007	187

8.2 Past Wildfire Activities within the 103,804 Acre Cumulative Effects Area

Since 1910 roughly 67,853 acres within the cumulative effects area have been affected by wildfire. It should be noted that many of these acres, particularly those impacted in 2007, also burned in 2003 and/or 1994. Rather than list these acres twice, Table 2 reflects the most recent occurrence of wildfire on those acres, and the year of that wildfire.

Table 2 Past Wildfires

Wildfire Name	Year	Acres
Unknown	1910	1
Thunderbolt Wildfire	1994	2,206
South Fork Wildfire	2003	5,014
Cascade Complex Wildfire	2007	60,632

Figure 1 discloses the locations of past harvest and wildfire activities to the extent practicable and where the exact location is known.

8.3 Ongoing and Foreseeable Future Activities within the 103,804 Acre Cumulative Effects Area

For the purposes of this analysis any activity currently under contract or with a signed NEPA decision was considered an ongoing activity. Although circumstances such as litigation could prevent or delay implementation of these actions, it was assumed that they will proceed as described in their respective contracts and/or decision documents.

Ongoing or foreseeable future activities within this cumulative effects area that could add incrementally to impacts on these resources include:

Cabin Salvage, Knox Salvage, and South Fork Houselog Salvage I Sales – These three salvage sales, all under contract to the same Purchaser, were offered following the 2003 South Fork Wildfire. At this time the majority of the included timber has already been removed. However, the Purchaser is expected to continue to remove small amounts of fire-killed and imminently dead timber in 2008.

Power Salvage Sale – This salvage sale permits the removal of downed trees only from 66 acres within sections of the right-of-way of the overhead power line in the Warm Lake Basin. This contract is projected to terminate in July of 2008.

South Fork Campground Restoration Project – While still in the developmental phase, the objective of this project would be to minimize the fire-induced effects of the 2007 wildfire on the 10 acre South Fork Campground by removing hazard trees, planting conifers, and implementing other restorative

activities. The environmental analysis for this project is tentatively scheduled to occur in 2008 with implementation in 2009 or 2010.

Shoreline Fuels Reduction Project – This project consists of mechanical mulching of 32 acres of sub-merchantable trees and hand thinning and piling of 77 acres of sub-merchantable trees, all in the vicinity of the Shoreline Campground. Implementation is scheduled to occur in 2008.

Miscellaneous Recreational Activities – Numerous recreation-related uses in the area, such as church camps, hunting, camping, firewood cutting, and sightseeing, are expected to continue in the future.

SFSR Travel Management Project - While still in the developmental phase, the objective of this project would be to minimize undesirable impacts associated with poorly located dispersed campsites and authorized and unauthorized roads and/or trails causing resource damage, as well as to address under-sized culverts, fish passage barriers, and/or structures damaged by the 2007 wildfire in the South Fork Salmon River drainage. The environmental analysis for this project is tentatively scheduled to occur in 2008 with implementation in 2009 or 2010.

Warm Lake Highway Reconstruction Project – The majority of this project was completed in the summer of 2007 and included repair and resurfacing of the Warm Lake Highway (FH22) from Big Creek Summit to its crossing of the South Fork Salmon River.

Road Use and Road Maintenance – In addition to the ongoing use associated with recreational activities, roads within the area would continue to receive routine maintenance and/or repair as priorities dictate and funding allows.

BAER Culvert Replacements – A number of culverts removed in the fall of 2007 as part of the Cascade Complex BAER project would be reinstalled in the summer of 2008.

BAER Noxious Weed Treatments – This project would consist of monitoring the effects of the 2007 wildfire and suppression efforts on noxious weed populations and treatment of identified infestations in the summer of 2008.

Cascade Ranger District Noxious Weed Program – The Cascade District’s annual program consists of identifying and treating noxious weed infestations as funding and priorities allow. Treatments typically focus on infestations along open roads. Implementation of this program is expected to continue into the future with roughly 200 acres treated annually.

Figure 2 discloses the locations of ongoing and foreseeable future activities to the extent practicable and where the exact location is known.

Figure 1 Past Activities within 103,804 Acre Cumulative Effects Area

SFSR Hazard Tree Removal Past Activities

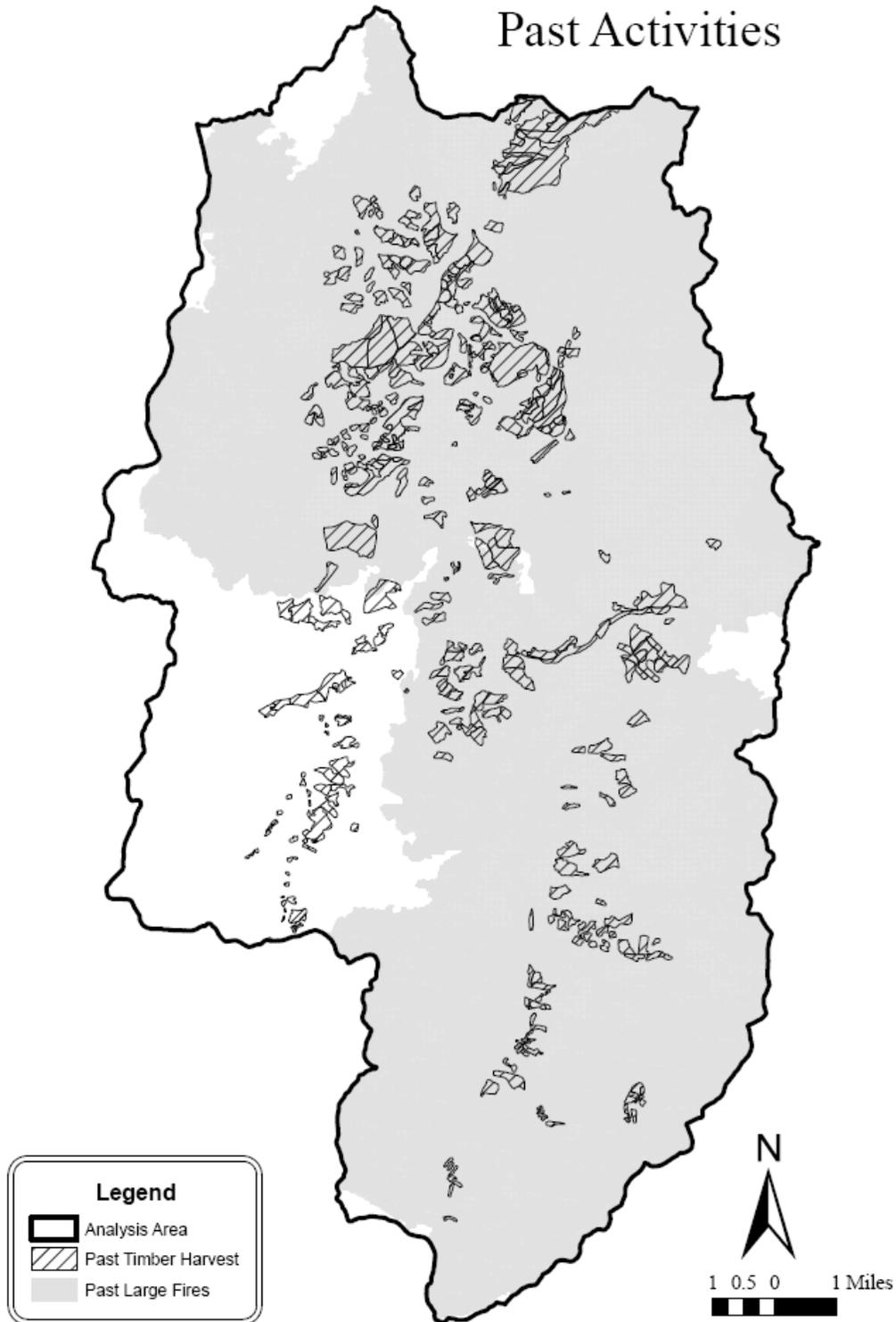


Figure 2 Ongoing and Foreseeable Future Activities within 103,804 Acre Cumulative Effects Area



SECTION 9.0

This section of the document discusses those past, ongoing, and reasonably foreseeable future actions considered in the cumulative effects analyses completed for: **Recreation**.

9.1 Past Harvest Activities within the 103,804 Acre Cumulative Effects Area

Since 1950 an estimated 7,208 acres have been harvested within the cumulative effects area. Table 1 displays timber sales by year cut and acres harvested within the cumulative effects area. Silvicultural prescriptions varied in intensity and included seed cut, final removal, and preparation cut shelterwoods; clearcut; salvage; sanitation, and; individual tree selection.

Table 1 Past Timber Harvest

Sale Name	Year Cut	Acres
Old Cabin Creek	1950	211
Cabin Creek Houselog	1950	19
Kline Mountain	1954	217
Old Two Bit	1955	134
Old Cabin Creek	1955	7
Old Cabin Creek	1956	15
Trail Creek	1957	721
Upper Dollar Creek	1958	525
Chipmunk	1958	6
Six Bit	1958	38
Knox	1959	20
Two Bit	1959	31
Blue Point	1960	210
Two Bit	1960	244
Two Bit PC	1960	111
Bear Creek	1961	48
Roaring Creek	1961	30
Two Bit	1961	7
Mirror Creek	1961	21
Railroad Pass	1962	70
Cabin Creek Houselog	1963	5
Cabin Creek I	1963	177
Railroad Pass	1963	260
Six Bit	1963	3
South Fork Salmon	1964	64
Camp Creek	1964	335
Railroad Pass	1964	121
Camp Creek	1965	27
Dollar Creek	1965	499
South Fork Salmon	1965	270
Six Bit	1965	511
Blue Point	1966	39
Tyndall Creek	1966	201
Curtis Creek	1967	300
Tyndall Creek	1967	162
Curtis Creek	1968	58
Bear Creek Helicopter	1980	79
Roaring Creek	1981	106
Cabin Creek II	1985	107
Public Post & Pole	1986	74

Table 1 Past Timber Harvest (cont.)

Sale Name	Year Cut	Acres
Post & Pole Research	1986	13
Wildlife Clearcut	1993	8
Gump Commercial P & P	1994	12
SF Road Slash	1994	2
Six Bit PC	1995	13
Dead Washer	1996	116
Thunderbolt Salvage	1996	72
Public Post & Pole	1999	9
South Fork Houselogs	2006	330
Knox Salvage	2006	55
Cabin Salvage	2006	308
Power Salvage	2007	187

9.2 Past Wildfire Activities within the 103,804 Acre Cumulative Effects Area

Since 1910 roughly 67,853 acres within the cumulative effects area have been affected by wildfire. It should be noted that many of these acres, particularly those impacted in 2007, also burned in 2003 and/or 1994. Rather than list these acres twice, Table 2 reflects the most recent occurrence of wildfire on those acres, and the year of that wildfire.

Table 2 Past Wildfires

Wildfire Name	Year	Acres
Unknown	1910	1
Thunderbolt Wildfire	1994	2,206
South Fork Wildfire	2003	5,014
Cascade Complex Wildfire	2007	60,632

Figure 1 discloses the locations of past harvest and wildfire activities to the extent practicable and where the exact location is known.

9.3 Ongoing and Foreseeable Future Activities within the 103,804 Acre Cumulative Effects Area

For the purposes of this analysis any activity currently under contract or with a signed NEPA decision was considered an ongoing activity. Although circumstances such as litigation could prevent or delay implementation of these actions, it was assumed that they will proceed as described in their respective contracts and/or decision documents.

Ongoing or foreseeable future activities within this cumulative effects area that could add incrementally to impacts on these resources include:

Cabin Salvage, Knox Salvage, and South Fork Houselog Salvage I Sales – These three salvage sales, all under contract to the same Purchaser, were offered following the 2003 South Fork Wildfire. At this time the majority of the included timber has already been removed. However, the Purchaser is expected to continue to remove small amounts of fire-killed and imminently dead timber in 2008.

Power Salvage Sale – This salvage sale permits the removal of downed trees only from 66 acres within sections of the right-of-way of the overhead power line in the Warm Lake Basin. This contract is projected to terminate in July of 2008.

South Fork Campground Restoration Project – While still in the developmental phase, the objective of this project would be to minimize the fire-induced effects of the 2007 wildfire on the 10 acre South Fork Campground by removing hazard trees, planting conifers, and implementing other restorative

SFSR Hazard Tree Removal Project

activities. The environmental analysis for this project is tentatively scheduled to occur in 2008 with implementation in 2009 or 2010.

Shoreline Fuels Reduction Project – This project consists of mechanical mulching of 32 acres of sub-merchantable trees and hand thinning and piling of 77 acres of sub-merchantable trees, all in the vicinity of the Shoreline Campground. Implementation is scheduled to occur in 2008.

Miscellaneous Recreational Activities – Numerous recreation-related uses in the area, such as church camps, hunting, camping, firewood cutting, and sightseeing, are expected to continue in the future.

SFSR Travel Management Project - While still in the developmental phase, the objective of this project would be to minimize undesirable impacts associated with poorly located dispersed campsites and authorized and unauthorized roads and/or trails causing resource damage, as well as to address under-sized culverts, fish passage barriers, and/or structures damaged by the 2007 wildfire in the South Fork Salmon River drainage. The environmental analysis for this project is tentatively scheduled to occur in 2008 with implementation in 2009 or 2010.

Sport Fishing for Salmon - The State of Idaho allows sport fishing of Chinook salmon in the South Fork Salmon River on a year to year basis depending on the number of returning fish. This season varies annually in length and the numbers of fish permissible to take, which indirectly influences the amount of use in the cumulative effects area.

Tribal Fishing for Salmon – Tribal members still exercise their treaty rights to fish for salmon in the South Fork Salmon River. In recent years, the salmon runs have increased due to hatchery-raised stock being released to supplement the wild runs. Similarly to sport fishing, the amount of tribal fishing in any given year influences the amount of use in the cumulative effects area.

Warm Lake Highway Reconstruction Project – The majority of this project was completed in the summer of 2007 and included repair and resurfacing of the Warm Lake Highway (FH22) from Big Creek Summit to its crossing of the South Fork Salmon River.

Road Use and Road Maintenance – In addition to the ongoing use associated with recreational activities, roads within the area would continue to receive routine maintenance and/or repair as priorities dictate and funding allows.

BAER Culvert Replacements – A number of culverts removed in the fall of 2007 as part of the Cascade Complex BAER project would be reinstalled in the summer of 2008.

Figure 2 discloses the locations of ongoing and foreseeable future activities to the extent practicable and where the exact location is known.

Figure 1 Past Activities within 103,804 Acre Cumulative Effects Area

SFSR Hazard Tree Removal Past Activities

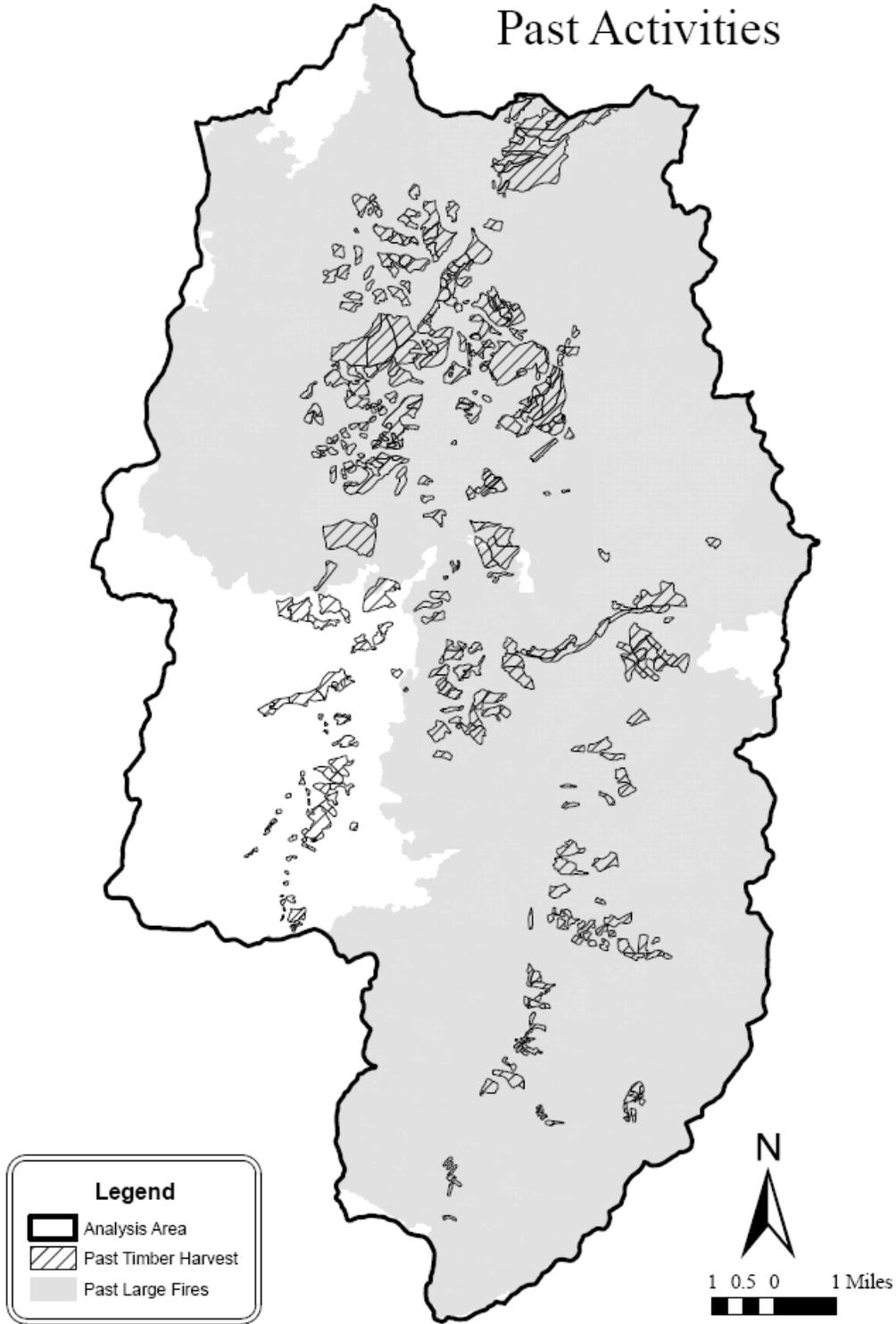


Figure 2 Ongoing and Foreseeable Future Activities within 103,804 Acre Cumulative Effects Area



SECTION 10.0

This section of the document discusses those past, ongoing, and reasonably foreseeable future actions considered in the cumulative effects analyses completed for: **Wild and Scenic Rivers**.

10.1 Past Harvest Activities within the 103,804 Acre Cumulative Effects Area

Since 1950 an estimated 7,208 acres have been harvested within the cumulative effects area. Table 1 displays timber sales by year cut and acres harvested within the cumulative effects area. Silvicultural prescriptions varied in intensity and included seed cut, final removal, and preparation cut shelterwoods; clearcut; salvage; sanitation, and; individual tree selection.

Table 1 Past Timber Harvest

Sale Name	Year Cut	Acres
Old Cabin Creek	1950	211
Cabin Creek Houselog	1950	19
Kline Mountain	1954	217
Old Two Bit	1955	134
Old Cabin Creek	1955	7
Old Cabin Creek	1956	15
Trail Creek	1957	721
Upper Dollar Creek	1958	525
Chipmunk	1958	6
Six Bit	1958	38
Knox	1959	20
Two Bit	1959	31
Blue Point	1960	210
Two Bit	1960	244
Two Bit PC	1960	111
Bear Creek	1961	48
Roaring Creek	1961	30
Two Bit	1961	7
Mirror Creek	1961	21
Railroad Pass	1962	70
Cabin Creek Houselog	1963	5
Cabin Creek I	1963	177
Railroad Pass	1963	260
Six Bit	1963	3
South Fork Salmon	1964	64
Camp Creek	1964	335
Railroad Pass	1964	121
Camp Creek	1965	27
Dollar Creek	1965	499
South Fork Salmon	1965	270
Six Bit	1965	511
Blue Point	1966	39
Tyndall Creek	1966	201
Curtis Creek	1967	300
Tyndall Creek	1967	162
Curtis Creek	1968	58
Bear Creek Helicopter	1980	79
Roaring Creek	1981	106
Cabin Creek II	1985	107
Public Post & Pole	1986	74

SFSR Hazard Tree Removal Project

Table 1 Past Timber Harvest (cont.)

Sale Name	Year Cut	Acres
Post & Pole Research	1986	13
Wildlife Clearcut	1993	8
Gump Commercial P & P	1994	12
SF Road Slash	1994	2
Six Bit PC	1995	13
Dead Washer	1996	116
Thunderbolt Salvage	1996	72
Public Post & Pole	1999	9
South Fork Houselogs	2006	330
Knox Salvage	2006	55
Cabin Salvage	2006	308
Power Salvage	2007	187

10.2 Past Wildfire Activities within the 103,804 Acre Cumulative Effects Area

Since 1910 roughly 67,853 acres within the cumulative effects area have been affected by wildfire. It should be noted that many of these acres, particularly those impacted in 2007, also burned in 2003 and/or 1994. Rather than list these acres twice, Table 2 reflects the most recent occurrence of wildfire on those acres, and the year of that wildfire.

Table 2 Past Wildfires

Wildfire Name	Year	Acres
Unknown	1910	1
Thunderbolt Wildfire	1994	2,206
South Fork Wildfire	2003	5,014
Cascade Complex Wildfire	2007	60,632

Figure 1 discloses the locations of past harvest and wildfire activities to the extent practicable and where the exact location is known.

10.3 Ongoing and Foreseeable Future Activities within the 103,804 Acre Cumulative Effects Area

For the purposes of this analysis any activity currently under contract or with a signed NEPA decision was considered an ongoing activity. Although circumstances such as litigation could prevent or delay implementation of these actions, it was assumed that they will proceed as described in their respective contracts and/or decision documents.

Ongoing or foreseeable future activities within this cumulative effects area that could add incrementally to impacts on these resources include:

Personal Use Firewood - Personal use firewood cutting is expected to continue into the foreseeable future and would likely reduce the quantity of fire-damaged trees within 100 to 200 feet of open roads.

Cabin Salvage, Knox Salvage, and South Fork Houselog Salvage I Sales – These three salvage sales, all under contract to the same Purchaser, were offered following the 2003 South Fork Wildfire. At this time the majority of the included timber has already been removed. However, the Purchaser is expected to continue to remove small amounts of fire-killed and imminently dead timber in 2008.

Power Salvage Sale – This salvage sale permits the removal of downed trees only from 66 acres within sections of the right-of-way of the overhead power line in the Warm Lake Basin. This contract is projected to terminate in July of 2008.

South Fork Campground Restoration Project – While still in the developmental phase, the objective of this project would be to minimize the fire-induced effects of the 2007 wildfire on the 10 acre South Fork Campground by removing hazard trees, planting conifers, and implementing other restorative activities. The environmental analysis for this project is tentatively scheduled to occur in 2008 with implementation in 2009 or 2010.

Tyndall Stolle Reforestation Project – This project consists of planting conifers on an estimated 4,127 acres that burned at a high or moderate intensity where competing vegetation is expected and/or where no seed source is present to facilitate natural regeneration. Planting activities are projected to occur in the spring and fall of 2008 and 2009.

Miscellaneous Recreational Activities – Numerous recreation-related uses in the area, such as church camps, hunting, camping, firewood cutting, and sightseeing, are expected to continue in the future.

SFSR Travel Management Project - While still in the developmental phase, the objective of this project would be to minimize undesirable impacts associated with poorly located dispersed campsites and authorized and unauthorized roads and/or trails causing resource damage, as well as to address under-sized culverts, fish passage barriers, and/or structures damaged by the 2007 wildfire in the South Fork Salmon River drainage. The environmental analysis for this project is tentatively scheduled to occur in 2008 with implementation in 2009 or 2010.

Sport Fishing for Salmon - The State of Idaho allows sport fishing of Chinook salmon in the South Fork Salmon River on a year to year basis depending on the number of returning fish. This season varies annually in length and the numbers of fish permissible to take, which indirectly influences the amount of use in the cumulative effects area.

Tribal Fishing for Salmon – Tribal members still exercise their treaty rights to fish for salmon in the South Fork Salmon River. In recent years, the salmon runs have increased due to hatchery-raised stock being released to supplement the wild runs. Similarly to sport fishing, the amount of tribal fishing in any given year influences the amount of use in the cumulative effects area.

Warm Lake Highway Reconstruction Project – The majority of this project was completed in the summer of 2007 and included repair and resurfacing of the Warm Lake Highway (FH22) from Big Creek Summit to its crossing of the South Fork Salmon River.

BAER Culvert Replacements – A number of culverts removed in the fall of 2007 as part of the Cascade Complex BAER project would be reinstalled in the summer of 2008.

Figure 2 discloses the locations of ongoing and foreseeable future activities to the extent practicable and where the exact location is known.

Figure 1 Past Activities within 103,804 Acre Cumulative Effects Area

SFSR Hazard Tree Removal Past Activities

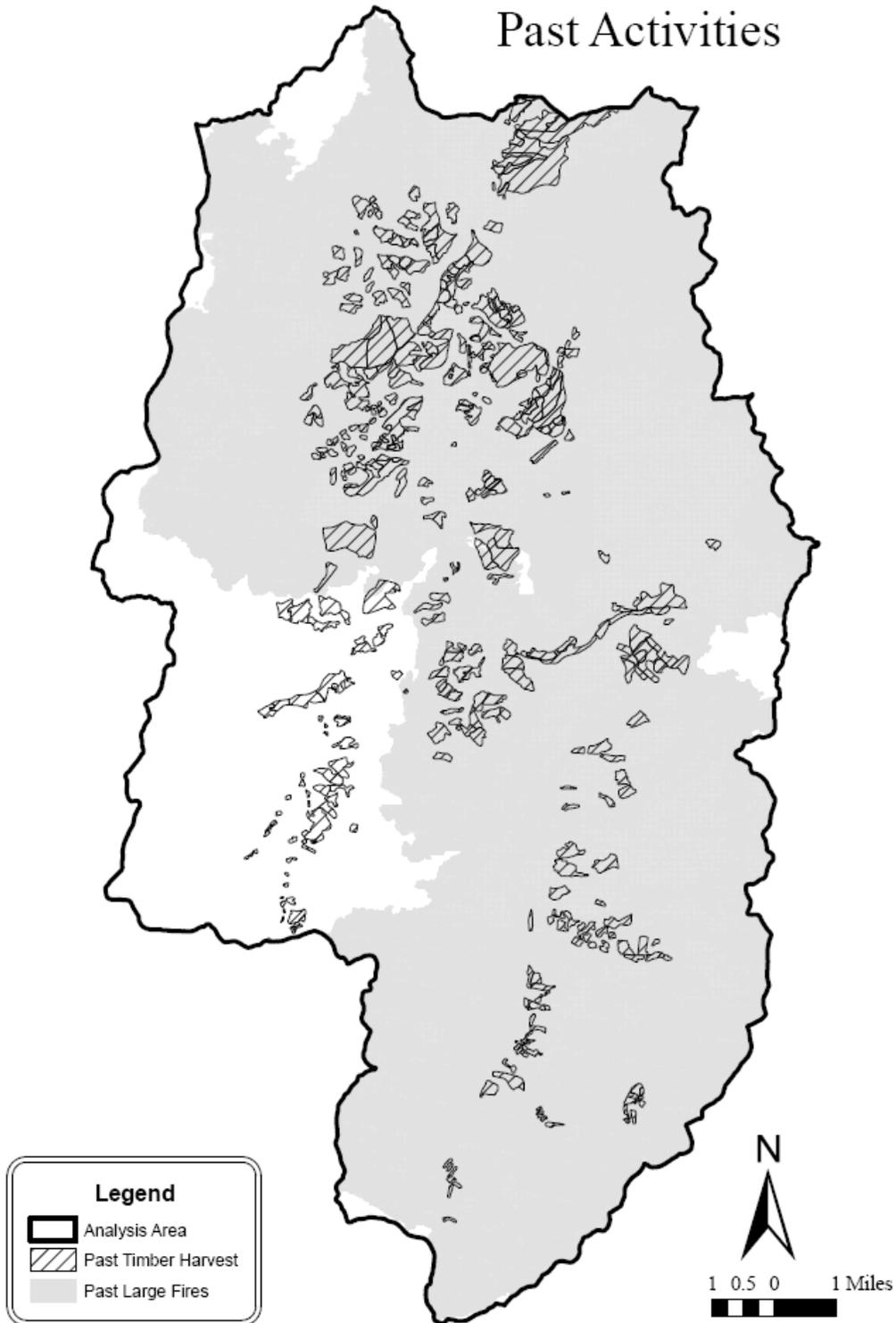
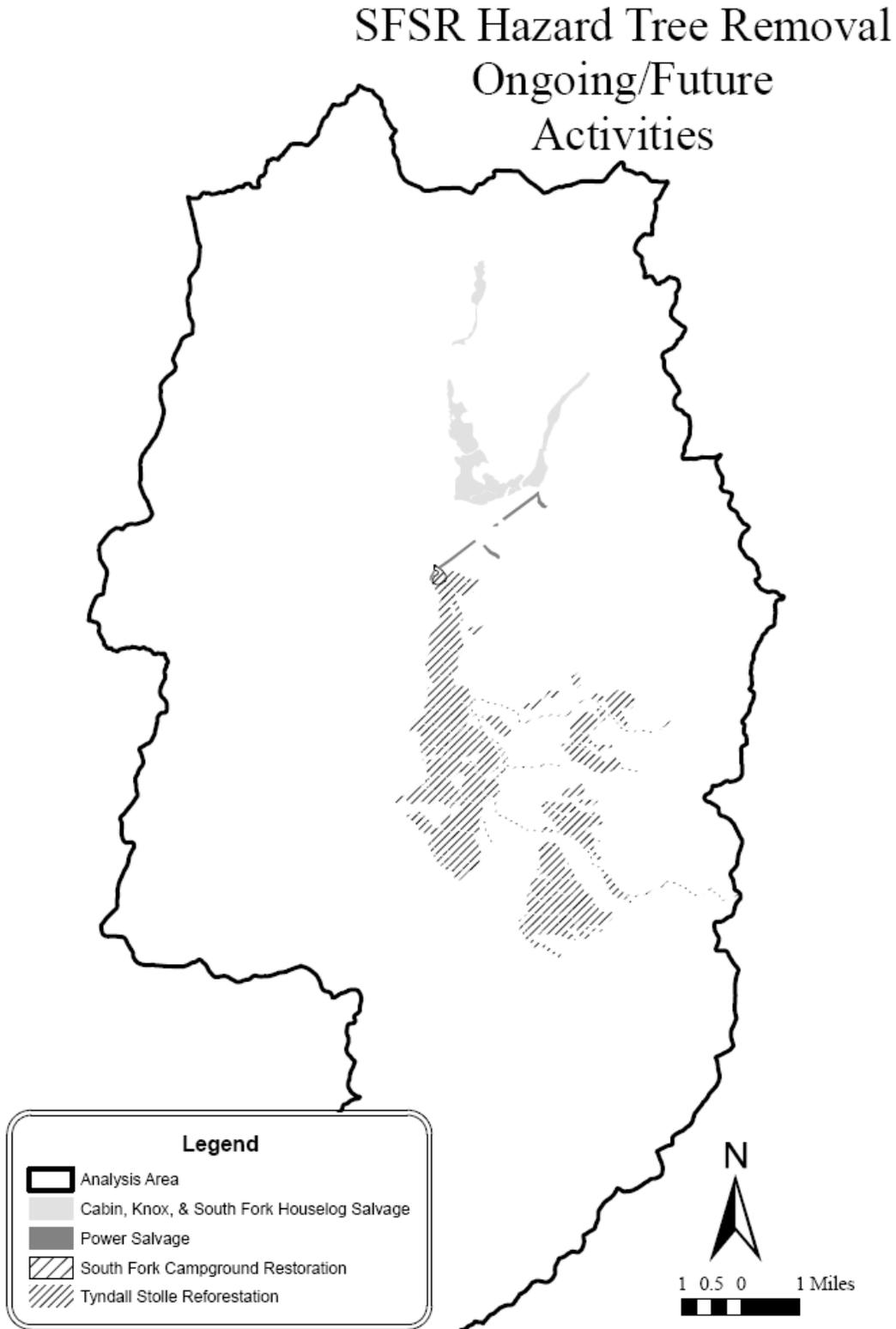


Figure 2 Ongoing and Foreseeable Future Activities within 103,804 Acre Cumulative Effects Area



SECTION 11.0

This section of the document discusses those past, ongoing, and reasonably foreseeable future actions considered in the cumulative effects analyses completed for: **Scenic Environment**.

11.1 Past Harvest Activities within the 103,804 Acre Cumulative Effects Area

Since 1950 an estimated 7,208 acres have been harvested within the cumulative effects area. Table 1 displays timber sales by year cut and acres harvested within the cumulative effects area. Silvicultural prescriptions varied in intensity and included seed cut, final removal, and preparation cut shelterwoods; clearcut; salvage; sanitation, and; individual tree selection.

Table 1 Past Timber Harvest

Sale Name	Year Cut	Acres
Old Cabin Creek	1950	211
Cabin Creek Houselog	1950	19
Kline Mountain	1954	217
Old Two Bit	1955	134
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Six Bit	1958	38
Knox	1959	20
Two Bit	1959	31
Blue Point	1960	210
Two Bit	1960	244
Two Bit PC	1960	111
Bear Creek	1961	48
Roaring Creek	1961	30
Two Bit	1961	7
Mirror Creek	1961	21
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Cabin Creek I	1963	177
Railroad Pass	1963	260
Six Bit	1963	3
South Fork Salmon	1964	64
Camp Creek	1964	335
Railroad Pass	1964	121
Camp Creek	1965	27
Dollar Creek	1965	499
South Fork Salmon	1965	270
Six Bit	1965	511
Blue Point	1966	39
Tyndall Creek	1966	201
Curtis Creek	1967	300
Tyndall Creek	1967	162
Curtis Creek	1968	58
Bear Creek Helicopter	1980	79
Roaring Creek	1981	106
Cabin Creek II	1985	107
Public Post & Pole	1986	74
Post & Pole Research	1986	13
Wildlife Clearcut	1993	8

Table 1 Past Timber Harvest (cont.)

Sale Name	Year Cut	Acres
Gump Commercial P & P	1994	12
SF Road Slash	1994	2
Six Bit PC	1995	13
Dead Washer	1996	116
Thunderbolt Salvage	1996	72
Public Post & Pole	1999	9
South Fork Houselogs	2006	330
Knox Salvage	2006	55
Cabin Salvage	2006	308
Power Salvage	2007	187

11.2 Past Wildfire Activities within the 103,804 Acre Cumulative Effects Area

Since 1910 roughly 67,853 acres within the cumulative effects area have been affected by wildfire. It should be noted that many of these acres, particularly those impacted in 2007, also burned in 2003 and/or 1994. Rather than list these acres twice, Table 2 reflects the most recent occurrence of wildfire on those acres, and the year of that wildfire.

Table 2 Past Wildfires

Wildfire Name	Year	Acres
Unknown	1910	1
Thunderbolt Wildfire	1994	2,206
South Fork Wildfire	2003	5,014
Cascade Complex Wildfire	2007	60,632

Figure 1 discloses the locations of past harvest and wildfire activities to the extent practicable and where the exact location is known.

11.3 Ongoing and Foreseeable Future Activities within the 103,804 Acre Cumulative Effects Area

For the purposes of this analysis any activity currently under contract or with a signed NEPA decision was considered an ongoing activity. Although circumstances such as litigation could prevent or delay implementation of these actions, it was assumed that they will proceed as described in their respective contracts and/or decision documents.

Ongoing or foreseeable future activities within this cumulative effects area that could add incrementally to impacts on these resources include:

Cabin Salvage, Knox Salvage, and South Fork Houselog Salvage I Sales – These three salvage sales, all under contract to the same Purchaser, were offered following the 2003 South Fork Wildfire. At this time the majority of the included timber has already been removed. However, the Purchaser is expected to continue to remove small amounts of fire-killed and imminently dead timber in 2008.

Power Salvage Sale – This salvage sale permits the removal of downed trees only from 66 acres within sections of the right-of-way of the overhead power line in the Warm Lake Basin. This contract is projected to terminate in July of 2008.

South Fork Campground Restoration Project – While still in the developmental phase, the objective of this project would be to minimize the fire-induced effects of the 2007 wildfire on the 10 acre South Fork Campground by removing hazard trees, planting conifers, and implementing other restorative activities. The environmental analysis for this project is tentatively scheduled to occur in 2008 with implementation in 2009 or 2010.

SFSR Hazard Tree Removal Project

Shoreline Fuels Reduction Project – This project consists of mechanical mulching of 32 acres of sub-merchantable trees and hand thinning and piling of 77 acres of sub-merchantable trees, all in the vicinity of the Shoreline Campground. Implementation is scheduled to occur in 2008.

Warm Lake Highway Reconstruction Project – The majority of this project was completed in the summer of 2007 and included repair and resurfacing of the Warm Lake Highway (FH22) from Big Creek Summit to its crossing of the South Fork Salmon River.

Figure 2 discloses the locations of ongoing and foreseeable future activities to the extent practicable and where the exact location is known.

Figure 1 Past Activities within 103,804 Acre Cumulative Effects Area

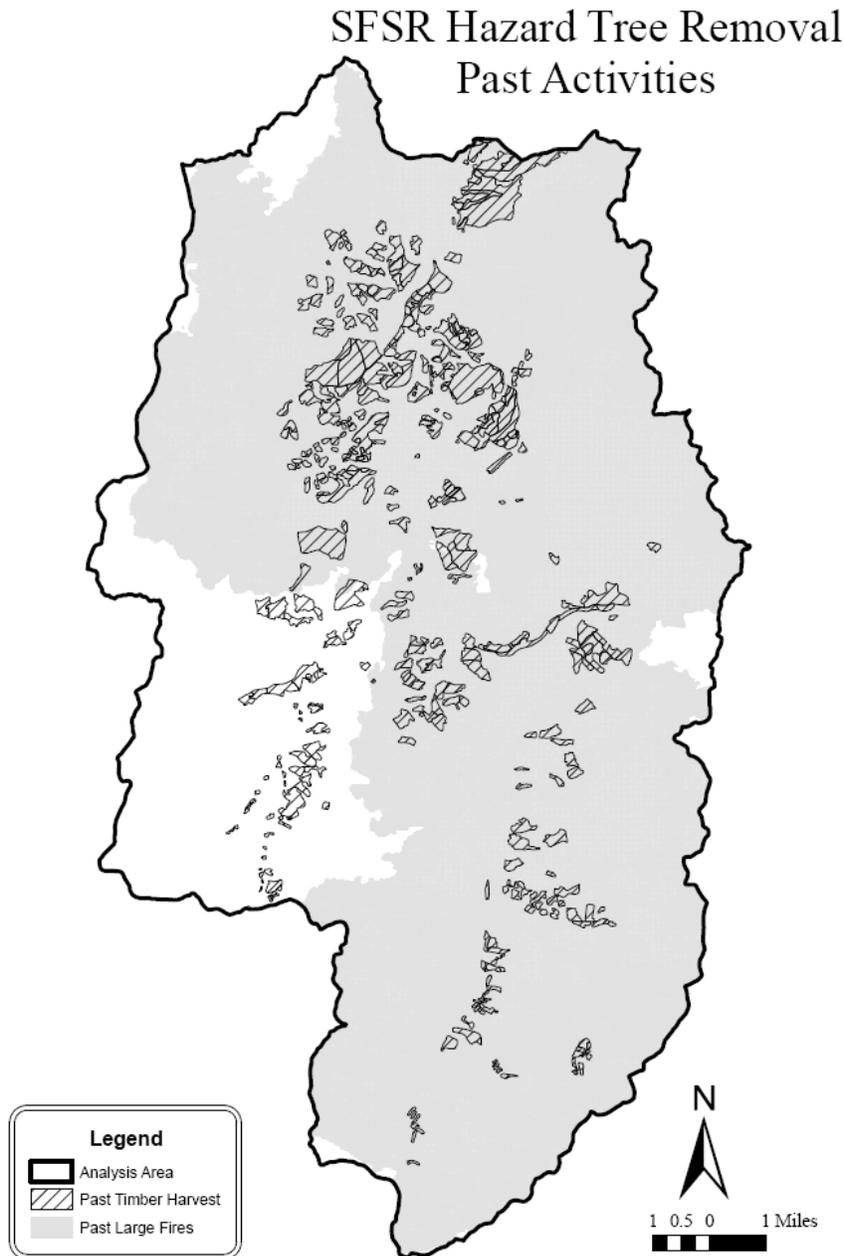


Figure 2 Ongoing and Foreseeable Future Activities within 103,804 Acre Cumulative Effects Area



SECTION 12.0

This section of the document discusses those past, ongoing, and reasonably foreseeable future actions considered in the cumulative effects analyses completed for: **Detrimental Disturbance**.

12.1 Past Harvest Activities within the 103,804 Acre Cumulative Effects Area

Since 1950 an estimated 7,208 acres have been harvested within the cumulative effects area. Table 1 displays timber sales by year cut and acres harvested within the cumulative effects area. Silvicultural prescriptions varied in intensity and included seed cut, final removal, and preparation cut shelterwoods; clearcut; salvage; sanitation, and; individual tree selection.

Table 1 Past Timber Harvest

Sale Name	Year Cut	Acres
Old Cabin Creek	1950	211
Cabin Creek Houselog	1950	19
Kline Mountain	1954	217
Old Two Bit	1955	134
Old Cabin Creek	1955	7
Old Cabin Creek	1956	15
Trail Creek	1957	721
Upper Dollar Creek	1958	525
Chipmunk	1958	6
Six Bit	1958	38
Knox	1959	20
Two Bit	1959	31
Blue Point	1960	210
Two Bit	1960	244
Two Bit PC	1960	111
Bear Creek	1961	48
Roaring Creek	1961	30
Two Bit	1961	7
Mirror Creek	1961	21
Railroad Pass	1962	70
Cabin Creek Houselog	1963	5
Cabin Creek I	1963	177
Railroad Pass	1963	260
Six Bit	1963	3
South Fork Salmon	1964	64
Camp Creek	1964	335
Railroad Pass	1964	121
Camp Creek	1965	27
Dollar Creek	1965	499
South Fork Salmon	1965	270
Six Bit	1965	511
Blue Point	1966	39
Tyndall Creek	1966	201
Curtis Creek	1967	300
Tyndall Creek	1967	162
Curtis Creek	1968	58
Bear Creek Helicopter	1980	79
Roaring Creek	1981	106
Cabin Creek II	1985	107
Public Post & Pole	1986	74
Post & Pole Research	1986	13
Wildlife Clearcut	1993	8

Table 1 Past Timber Harvest (cont.)

Sale Name	Year Cut	Acres
Gump Commercial P & P	1994	12
SF Road Slash	1994	2
Six Bit PC	1995	13
Dead Washer	1996	116
Thunderbolt Salvage	1996	72
Public Post & Pole	1999	9
South Fork Houselogs	2006	330
Knox Salvage	2006	55
Cabin Salvage	2006	308
Power Salvage	2007	187

12.2 Past Wildfire Activities within the 103,804 Acre Cumulative Effects Area

Since 1910 roughly 67,853 acres within the cumulative effects area have been affected by wildfire. It should be noted that many of these acres, particularly those impacted in 2007, also burned in 2003 and/or 1994. Rather than list these acres twice, Table 2 reflects the most recent occurrence of wildfire on those acres, and the year of that wildfire.

Table 2 Past Wildfires

Wildfire Name	Year	Acres
Unknown	1910	1
Thunderbolt Wildfire	1994	2,206
South Fork Wildfire	2003	5,014
Cascade Complex Wildfire	2007	60,632

Figure 1 discloses the locations of past harvest and wildfire activities to the extent practicable and where the exact location is known.

12.3 Ongoing and Foreseeable Future Activities within the 103,804 Acre Cumulative Effects Area

For the purposes of this analysis any activity currently under contract or with a signed NEPA decision was considered an ongoing activity. Although circumstances such as litigation could prevent or delay implementation of these actions, it was assumed that they will proceed as described in their respective contracts and/or decision documents.

Ongoing or foreseeable future activities within this cumulative effects area that could add incrementally to impacts on these resources include:

Cabin Salvage, Knox Salvage, and South Fork Houselog Salvage I Sales – These three salvage sales, all under contract to the same Purchaser, were offered following the 2003 South Fork Wildfire. At this time the majority of the included timber has already been removed. However, the Purchaser is expected to continue to remove small amounts of fire-killed and imminently dead timber in 2008.

Power Salvage Sale – This salvage sale permits the removal of downed trees only from 66 acres within sections of the right-of-way of the overhead power line in the Warm Lake Basin. This contract is projected to terminate in July of 2008.

South Fork Campground Restoration Project – While still in the developmental phase, the objective of this project would be to minimize the fire-induced effects of the 2007 wildfire on the 10 acre South Fork Campground by removing hazard trees, planting conifers, and implementing other restorative activities. The environmental analysis for this project is tentatively scheduled to occur in 2008 with implementation in 2009 or 2010.

SFSR Hazard Tree Removal Project

Shoreline Fuels Reduction Project – This project consists of mechanical mulching of 32 acres of sub-merchantable trees and hand thinning and piling of 77 acres of sub-merchantable trees, all in the vicinity of the Shoreline Campground. Implementation is scheduled to occur in 2008.

Figure 2 discloses the locations of ongoing and foreseeable future activities to the extent practicable and where the exact location is known.

Figure 1 Past Activities within 103,804 Acre Cumulative Effects Area

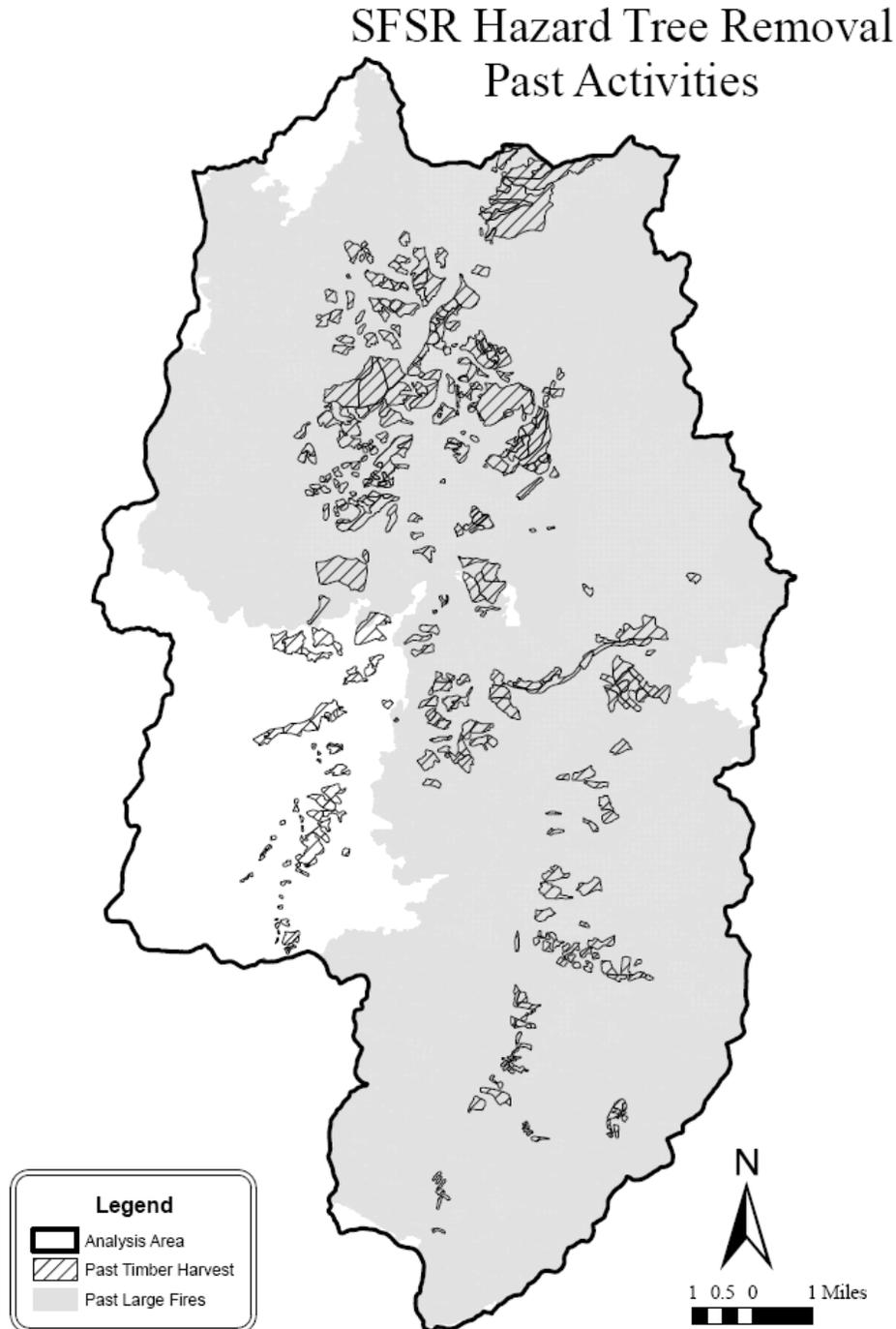


Figure 2 Ongoing and Foreseeable Future Activities within 103,804 Acre Cumulative Effects Area



SECTION 13.0

This section of the document discusses those past, ongoing, and reasonably foreseeable future actions considered in the cumulative effects analyses completed for: **Total Soil Resource Commitment**.

13.1 Past Harvest Activities within the 103,804 Acre Cumulative Effects Area

Since 1950 an estimated 7,208 acres have been harvested within the cumulative effects area. Table 1 displays timber sales by year cut and acres harvested within the cumulative effects area. Silvicultural prescriptions varied in intensity and included seed cut, final removal, and preparation cut shelterwoods; clearcut; salvage; sanitation, and; individual tree selection.

Table 1 Past Timber Harvest

Sale Name	Year Cut	Acres
Old Cabin Creek	1950	211
Cabin Creek Houselog	1950	19
Kline Mountain	1954	217
Old Two Bit	1955	134
Old Cabin Creek	1955	7
Old Cabin Creek	1956	15
Trail Creek	1957	721
Upper Dollar Creek	1958	525
Chipmunk	1958	6
Six Bit	1958	38
Knox	1959	20
Two Bit	1959	31
Blue Point	1960	210
Two Bit	1960	244
Two Bit PC	1960	111
Bear Creek	1961	48
Roaring Creek	1961	30
Two Bit	1961	7
Mirror Creek	1961	21
Railroad Pass	1962	70
Cabin Creek Houselog	1963	5
Cabin Creek I	1963	177
Railroad Pass	1963	260
Six Bit	1963	3
South Fork Salmon	1964	64
Camp Creek	1964	335
Railroad Pass	1964	121
Camp Creek	1965	27
Dollar Creek	1965	499
South Fork Salmon	1965	270
Six Bit	1965	511
Blue Point	1966	39
Tyndall Creek	1966	201
Curtis Creek	1967	300
Tyndall Creek	1967	162
Curtis Creek	1968	58
Bear Creek Helicopter	1980	79
Roaring Creek	1981	106
Cabin Creek II	1985	107
Public Post & Pole	1986	74
Post & Pole Research	1986	13
Wildlife Clearcut	1993	8

Table 1 Past Timber Harvest (cont.)

Sale Name	Year Cut	Acres
Gump Commercial P & P	1994	12
SF Road Slash	1994	2
Six Bit PC	1995	13
Dead Washer	1996	116
Thunderbolt Salvage	1996	72
Public Post & Pole	1999	9
South Fork Houselogs	2006	330
Knox Salvage	2006	55
Cabin Salvage	2006	308
Power Salvage	2007	187

13.2 Past Road-related Activities within the 103,804 Acre Cumulative Effects Area

This cumulative effects area currently has roughly 233 miles of open and closed authorized roads, plus an additional three miles of open or closed unauthorized roads. This area also contains 34 miles of motorized trails and 15 miles of non-motorized trails.

Figure 1 discloses the locations of past harvest activities, and existing roads and trails, to the extent practicable and where the exact location is known. Although reflected on Figure 1, past wildfires would not add incrementally to total resource commitment.

13.3 Ongoing and Foreseeable Future Activities within the 103,804 Acre Cumulative Effects Area

For the purposes of this analysis any activity currently under contract or with a signed NEPA decision was considered an ongoing activity. Although circumstances such as litigation could prevent or delay implementation of these actions, it was assumed that they will proceed as described in their respective contracts and/or decision documents.

Ongoing or foreseeable future activities within this cumulative effects area that could add incrementally to impacts on these resources include:

Cabin Salvage, Knox Salvage, and South Fork Houselog Salvage I Sales – These three salvage sales, all under contract to the same Purchaser, were offered following the 2003 South Fork Wildfire. At this time the majority of the included timber has already been removed. However, the Purchaser is expected to continue to remove small amounts of fire-killed and imminently dead timber in 2008.

Power Salvage Sale – This salvage sale permits the removal of downed trees only from 66 acres within sections of the right-of-way of the overhead power line in the Warm Lake Basin. This contract is projected to terminate in July of 2008.

South Fork Campground Restoration Project – While still in the developmental phase, the objective of this project would be to minimize the fire-induced effects of the 2007 wildfire on the 10 acre South Fork Campground by removing hazard trees, planting conifers, and implementing other restorative activities. The environmental analysis for this project is tentatively scheduled to occur in 2008 with implementation in 2009 or 2010.

SFSR Travel Management Project - While still in the developmental phase, the objective of this project would be to minimize undesirable impacts associated with poorly located dispersed campsites and authorized and unauthorized roads and/or trails causing resource damage, as well as to address under-sized culverts, fish passage barriers, and/or structures damaged by the 2007 wildfire in the South Fork Salmon River drainage. The environmental analysis for this project is tentatively scheduled to occur in 2008 with implementation in 2009 or 2010.

SFSR Hazard Tree Removal Project

Figure 2 discloses the locations of ongoing and foreseeable future activities to the extent practicable and where the exact location is known.

Figure 1 Past Activities within 103,804 Acre Cumulative Effects Area

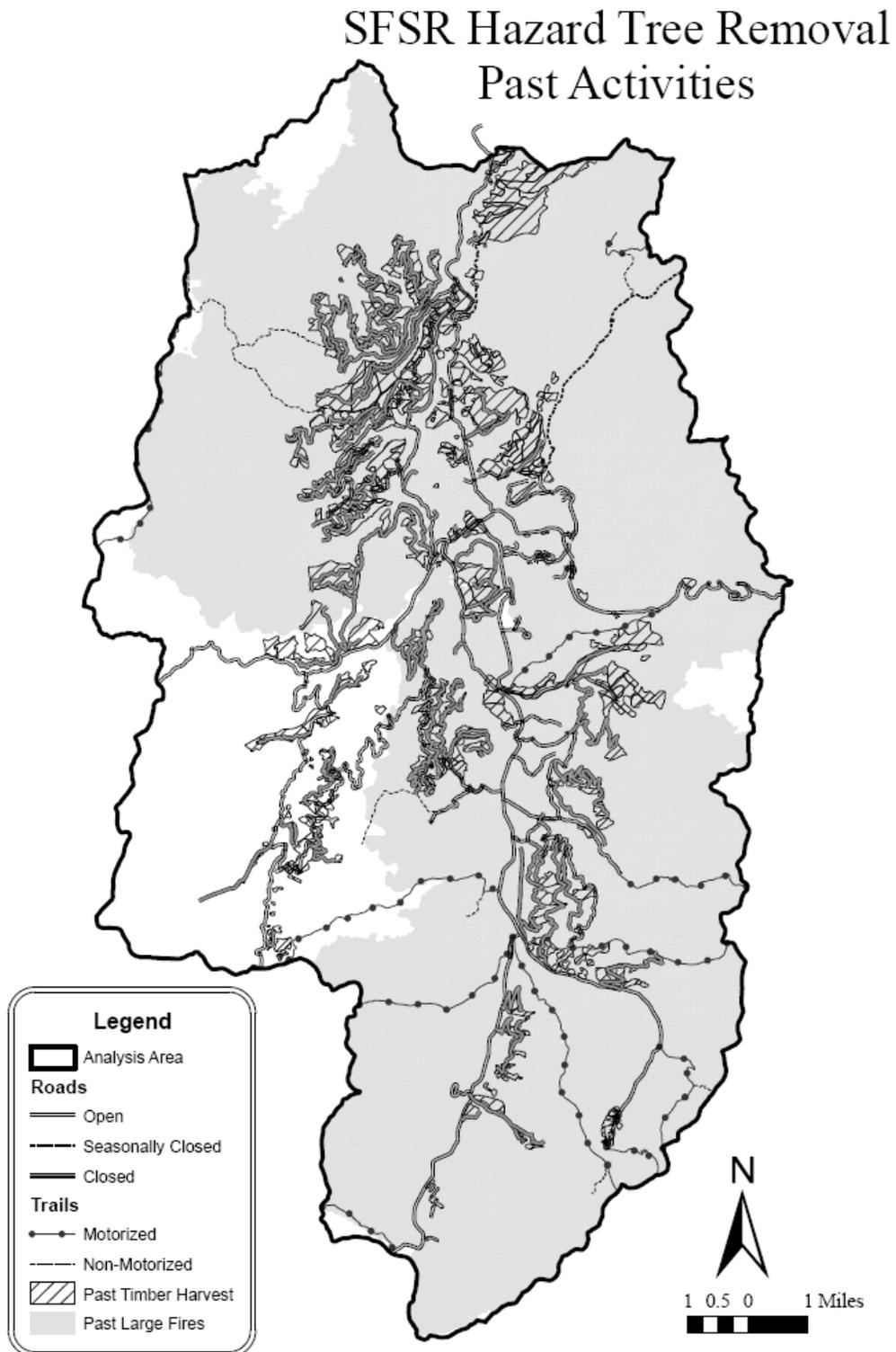


Figure 2 Ongoing and Foreseeable Future Activities within 103,804 Acre Cumulative Effects Area



SECTION 14.0

This section of the document discusses those past, ongoing, and reasonably foreseeable future actions considered in the cumulative effects analyses completed for: **Wetlands and Floodplains**.

14.1 Past Harvest Activities within the 103,804 Acre Cumulative Effects Area

Since 1950 an estimated 7,208 acres have been harvested within the cumulative effects area. Table 1 displays timber sales by year cut and acres harvested within the cumulative effects area. Silvicultural prescriptions varied in intensity and included seed cut, final removal, and preparation cut shelterwoods; clearcut; salvage; sanitation, and; individual tree selection.

Table 1 Past Timber Harvest

Sale Name	Year Cut	Acres
Old Cabin Creek	1950	211
Cabin Creek Houselog	1950	19
Kline Mountain	1954	217
Old Two Bit	1955	134
Old Cabin Creek	1955	7
Old Cabin Creek	1956	15
Trail Creek	1957	721
Upper Dollar Creek	1958	525
Chipmunk	1958	6
Six Bit	1958	38
Knox	1959	20
Two Bit	1959	31
Blue Point	1960	210
Two Bit	1960	244
Two Bit PC	1960	111
Bear Creek	1961	48
Roaring Creek	1961	30
Two Bit	1961	7
Mirror Creek	1961	21
Railroad Pass	1962	70
Cabin Creek Houselog	1963	5
Cabin Creek I	1963	177
Railroad Pass	1963	260
Six Bit	1963	3
South Fork Salmon	1964	64
Camp Creek	1964	335
Railroad Pass	1964	121
Camp Creek	1965	27
Dollar Creek	1965	499
South Fork Salmon	1965	270
Six Bit	1965	511
Blue Point	1966	39
Tyndall Creek	1966	201
Curtis Creek	1967	300
Tyndall Creek	1967	162
Curtis Creek	1968	58
Bear Creek Helicopter	1980	79
Roaring Creek	1981	106
Cabin Creek II	1985	107
Public Post & Pole	1986	74

Table 1 Past Timber Harvest (cont.)

Sale Name	Year Cut	Acres
Post & Pole Research	1986	13
Wildlife Clearcut	1993	8
Gump Commercial P & P	1994	12
SF Road Slash	1994	2
Six Bit PC	1995	13
Dead Washer	1996	116
Thunderbolt Salvage	1996	72
Public Post & Pole	1999	9
South Fork Houselogs	2006	330
Knox Salvage	2006	55
Cabin Salvage	2006	308
Power Salvage	2007	187

14.2 Past Wildfire Activities within the 103,804 Acre Cumulative Effects Area

Since 1910 roughly 67,853 acres within the cumulative effects area have been affected by wildfire. It should be noted that many of these acres, particularly those impacted in 2007, also burned in 2003 and/or 1994. Rather than list these acres twice, Table 2 reflects the most recent occurrence of wildfire on those acres, and the year of that wildfire.

Table 2 Past Wildfires

Wildfire Name	Year	Acres
Unknown	1910	1
Thunderbolt Wildfire	1994	2,206
South Fork Wildfire	2003	5,014
Cascade Complex Wildfire	2007	60,632

14.3 Past Road-related Activities within the 103,804 Acre Cumulative Effects Area

This cumulative effects area currently has roughly 233 miles of open and closed authorized roads, plus an additional three miles of open or closed unauthorized roads. This area also contains 34 miles of motorized trails and 15 miles of non-motorized trails.

Figure 1 discloses the locations of past harvest activities, and existing roads and trails, to the extent practicable and where the exact location is known.

14.4 Ongoing and Foreseeable Future Activities within the 103,804 Acre Cumulative Effects Area

For the purposes of this analysis any activity currently under contract or with a signed NEPA decision was considered an ongoing activity. Although circumstances such as litigation could prevent or delay implementation of these actions, it was assumed that they will proceed as described in their respective contracts and/or decision documents.

Ongoing or foreseeable future activities within this cumulative effects area that could add incrementally to impacts on these resources include:

Cabin Salvage, Knox Salvage, and South Fork Houselog Salvage I Sales – These three salvage sales, all under contract to the same Purchaser, were offered following the 2003 South Fork Wildfire. At this time the majority of the included timber has already been removed. However, the Purchaser is expected to continue to remove small amounts of fire-killed and imminently dead timber in 2008.

SFSR Hazard Tree Removal Project

Power Salvage Sale – This salvage sale permits the removal of downed trees only from 66 acres within sections of the right-of-way of the overhead power line in the Warm Lake Basin. This contract is projected to terminate in July of 2008.

South Fork Campground Restoration Project – While still in the developmental phase, the objective of this project would be to minimize the fire-induced effects of the 2007 wildfire on the 10 acre South Fork Campground by removing hazard trees, planting conifers, and implementing other restorative activities. The environmental analysis for this project is tentatively scheduled to occur in 2008 with implementation in 2009 or 2010.

Shoreline Fuels Reduction Project – This project consists of mechanical mulching of 32 acres of sub-merchantable trees and hand thinning and piling of 77 acres of sub-merchantable trees, all in the vicinity of the Shoreline Campground. Implementation is scheduled to occur in 2008.

Tyndall Stolle Reforestation Project – This project consists of planting conifers on an estimated 4,127 acres that burned at a high or moderate intensity where competing vegetation is expected and/or where no seed source is present to facilitate natural regeneration. Planting activities are projected to occur in the spring and fall of 2008 and 2009.

Miscellaneous Recreational Activities – Numerous recreation-related uses in the area, such as church camps, hunting, camping, firewood cutting, and sightseeing, are expected to continue in the future.

SFSR Travel Management Project - While still in the developmental phase, the objective of this project would be to minimize undesirable impacts associated with poorly located dispersed campsites and authorized and unauthorized roads and/or trails causing resource damage, as well as to address under-sized culverts, fish passage barriers, and/or structures damaged by the 2007 wildfire in the South Fork Salmon River drainage. The environmental analysis for this project is tentatively scheduled to occur in 2008 with implementation in 2009 or 2010.

Warm Lake Highway Reconstruction Project – The majority of this project was completed in the summer of 2007 and included repair and resurfacing of the Warm Lake Highway (FH22) from Big Creek Summit to its crossing of the South Fork Salmon River.

Road Use and Road Maintenance – In addition to the ongoing use associated with recreational activities, roads within the area would continue to receive routine maintenance and/or repair as priorities dictate and funding allows.

BAER Culvert Replacements – A number of culverts removed in the fall of 2007 as part of the Cascade Complex BAER project would be reinstalled in the summer of 2008.

Figure 2 discloses the locations of ongoing and foreseeable future activities to the extent practicable and where the exact location is known.

Figure 1 Past Activities within 103,804 Acre Cumulative Effects Area

SFSR Hazard Tree Removal Past Activities

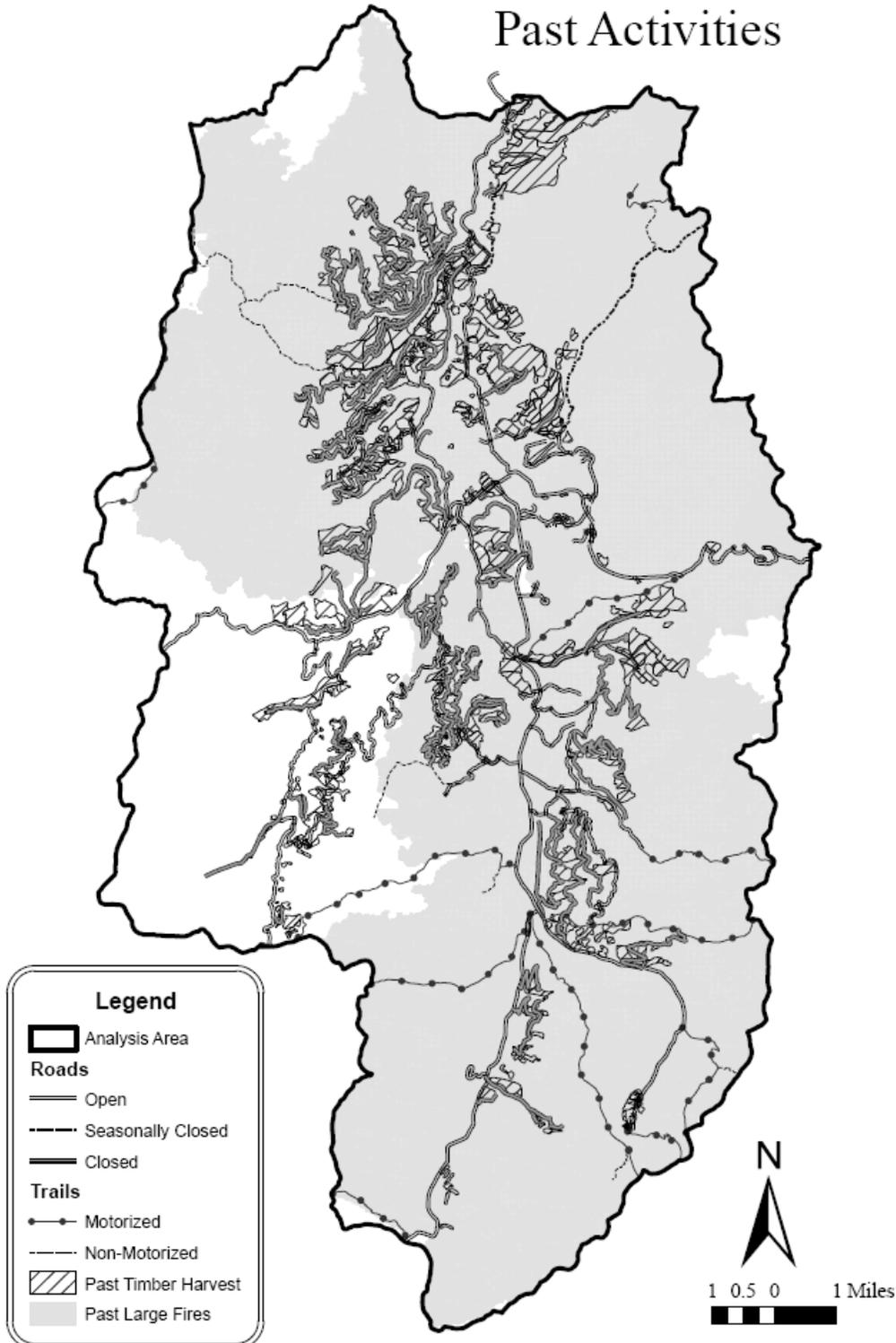
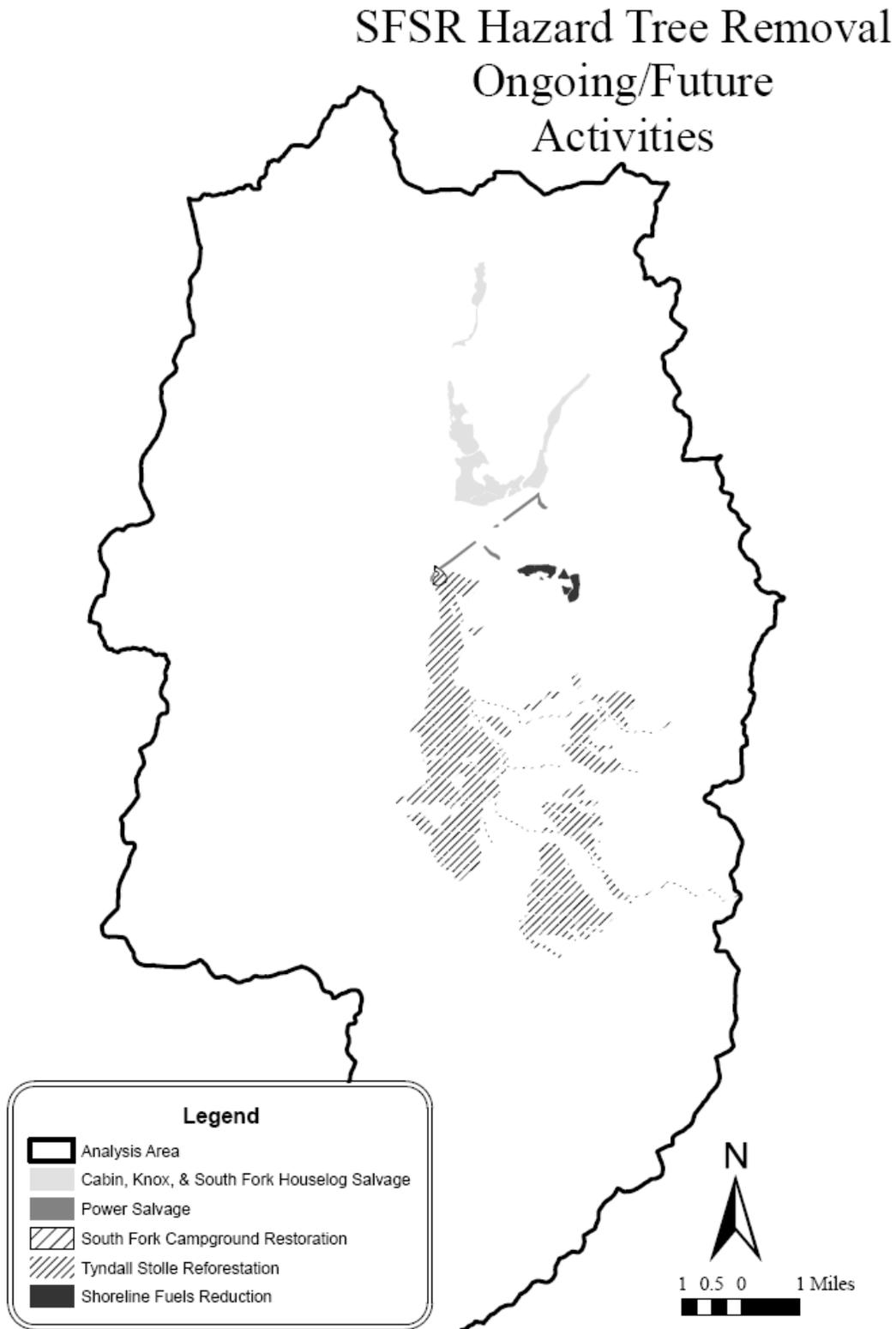


Figure 2 Ongoing and Foreseeable Future Activities within 103,804 Acre Cumulative Effects Area



SECTION 15.0

This section of the document discusses those past, ongoing, and reasonably foreseeable future actions considered in the cumulative effects analyses completed for: **Gray Wolf; Great Gray Owl; Flammulated Owl; Bald Eagle; Northern Goshawk; White-headed Woodpecker; Northern Three-toed Woodpecker; Fisher; Wolverine; Pileated Woodpecker; Elk/Mule Deer; Black-backed Woodpecker, and; Neotropical Migratory Birds..**

15.1 Past Harvest Activities within the 103,804 Acre Cumulative Effects Area

Since 1950 an estimated 7,208 acres have been harvested within the cumulative effects area. Table 1 displays timber sales by year cut and acres harvested within the cumulative effects area. Silvicultural prescriptions varied in intensity and included seed cut, final removal, and preparation cut shelterwoods; clearcut; salvage; sanitation, and; individual tree selection.

Table 1 Past Timber Harvest

Sale Name	Year Cut	Acres
Old Cabin Creek	1950	211
Cabin Creek Houselog	1950	19
Kline Mountain	1954	217
Old Two Bit	1955	134
Old Cabin Creek	1955	7
Old Cabin Creek	1956	15
Trail Creek	1957	721
Upper Dollar Creek	1958	525
Chipmunk	1958	6
Six Bit	1958	38
Knox	1959	20
Two Bit	1959	31
Blue Point	1960	210
Two Bit	1960	244
Two Bit PC	1960	111
Bear Creek	1961	48
Roaring Creek	1961	30
Two Bit	1961	7
Mirror Creek	1961	21
Railroad Pass	1962	70
Cabin Creek Houselog	1963	5
Cabin Creek I	1963	177
Railroad Pass	1963	260
Six Bit	1963	3
South Fork Salmon	1964	64
Camp Creek	1964	335
Railroad Pass	1964	121
Camp Creek	1965	27
Dollar Creek	1965	499
South Fork Salmon	1965	270
Six Bit	1965	511
Blue Point	1966	39
Tyndall Creek	1966	201
Curtis Creek	1967	300
Tyndall Creek	1967	162
Curtis Creek	1968	58
Bear Creek Helicopter	1980	79
Roaring Creek	1981	106

SFSR Hazard Tree Removal Project

Table 1 Past Timber Harvest (cont.)

Sale Name	Year Cut	Acres
Cabin Creek II	1985	107
Public Post & Pole	1986	74
Post & Pole Research	1986	13
Wildlife Clearcut	1993	8
Gump Commercial P & P	1994	12
SF Road Slash	1994	2
Six Bit PC	1995	13
Dead Washer	1996	116
Thunderbolt Salvage	1996	72
Public Post & Pole	1999	9
South Fork Houselogs	2006	330
Knox Salvage	2006	55
Cabin Salvage	2006	308
Power Salvage	2007	187

15.2 Past Wildfire Activities within the 103,804 Acre Cumulative Effects Area

Since 1910 roughly 67,853 acres within the cumulative effects area have been affected by wildfire. It should be noted that many of these acres, particularly those impacted in 2007, also burned in 2003 and/or 1994. Rather than list these acres twice, Table 2 reflects the most recent occurrence of wildfire on those acres, and the year of that wildfire.

Table 2 Past Wildfires

Wildfire Name	Year	Acres
Unknown	1910	1
Thunderbolt Wildfire	1994	2,206
South Fork Wildfire	2003	5,014
Cascade Complex Wildfire	2007	60,632

Figure 1 discloses the locations of past harvest and wildfire activities to the extent practicable and where the exact location is known.

15.3 Ongoing and Foreseeable Future Activities within the 103,804 Acre Cumulative Effects Area

For the purposes of this analysis any activity currently under contract or with a signed NEPA decision was considered an ongoing activity. Although circumstances such as litigation could prevent or delay implementation of these actions, it was assumed that they will proceed as described in their respective contracts and/or decision documents.

Ongoing or foreseeable future activities within this cumulative effects area that could add incrementally to impacts on these resources include:

Personal Use Firewood - Personal use firewood cutting is expected to continue into the foreseeable future and would likely reduce the quantity of fire-damaged trees within 100 to 200 feet of open roads.

Cabin Salvage, Knox Salvage, and South Fork Houselog Salvage I Sales – These three salvage sales, all under contract to the same Purchaser, were offered following the 2003 South Fork Wildfire. At this time the majority of the included timber has already been removed. However, the Purchaser is expected to continue to remove small amounts of fire-killed and imminently dead timber in 2008.

Power Salvage Sale – This salvage sale permits the removal of downed trees only from 66 acres within sections of the right-of-way of the overhead power line in the Warm Lake Basin. This contract is projected to terminate in July of 2008.

South Fork Campground Restoration Project – While still in the developmental phase, the objective of this project would be to minimize the fire-induced effects of the 2007 wildfire on the 10 acre South Fork Campground by removing hazard trees, planting conifers, and implementing other restorative activities. The environmental analysis for this project is tentatively scheduled to occur in 2008 with implementation in 2009 or 2010.

Shoreline Fuels Reduction Project – This project consists of mechanical mulching of 32 acres of sub-merchantable trees and hand thinning and piling of 77 acres of sub-merchantable trees, all in the vicinity of the Shoreline Campground. Implementation is scheduled to occur in 2008.

Tyndall Stolle Reforestation Project – This project consists of planting conifers on an estimated 4,127 acres that burned at a high or moderate intensity where competing vegetation is expected and/or where no seed source is present to facilitate natural regeneration. Planting activities are projected to occur in the spring and fall of 2008 and 2009.

SFSR Travel Management Project - While still in the developmental phase, the objective of this project would be to minimize undesirable impacts associated with poorly located dispersed campsites and authorized and unauthorized roads and/or trails causing resource damage, as well as to address under-sized culverts, fish passage barriers, and/or structures damaged by the 2007 wildfire in the South Fork Salmon River drainage. The environmental analysis for this project is tentatively scheduled to occur in 2008 with implementation in 2009 or 2010.

Figure 2 discloses the locations of ongoing and foreseeable future activities to the extent practicable and where the exact location is known.

Figure 1 Past Activities within 103,804 Acre Cumulative Effects Area

SFSR Hazard Tree Removal Past Activities

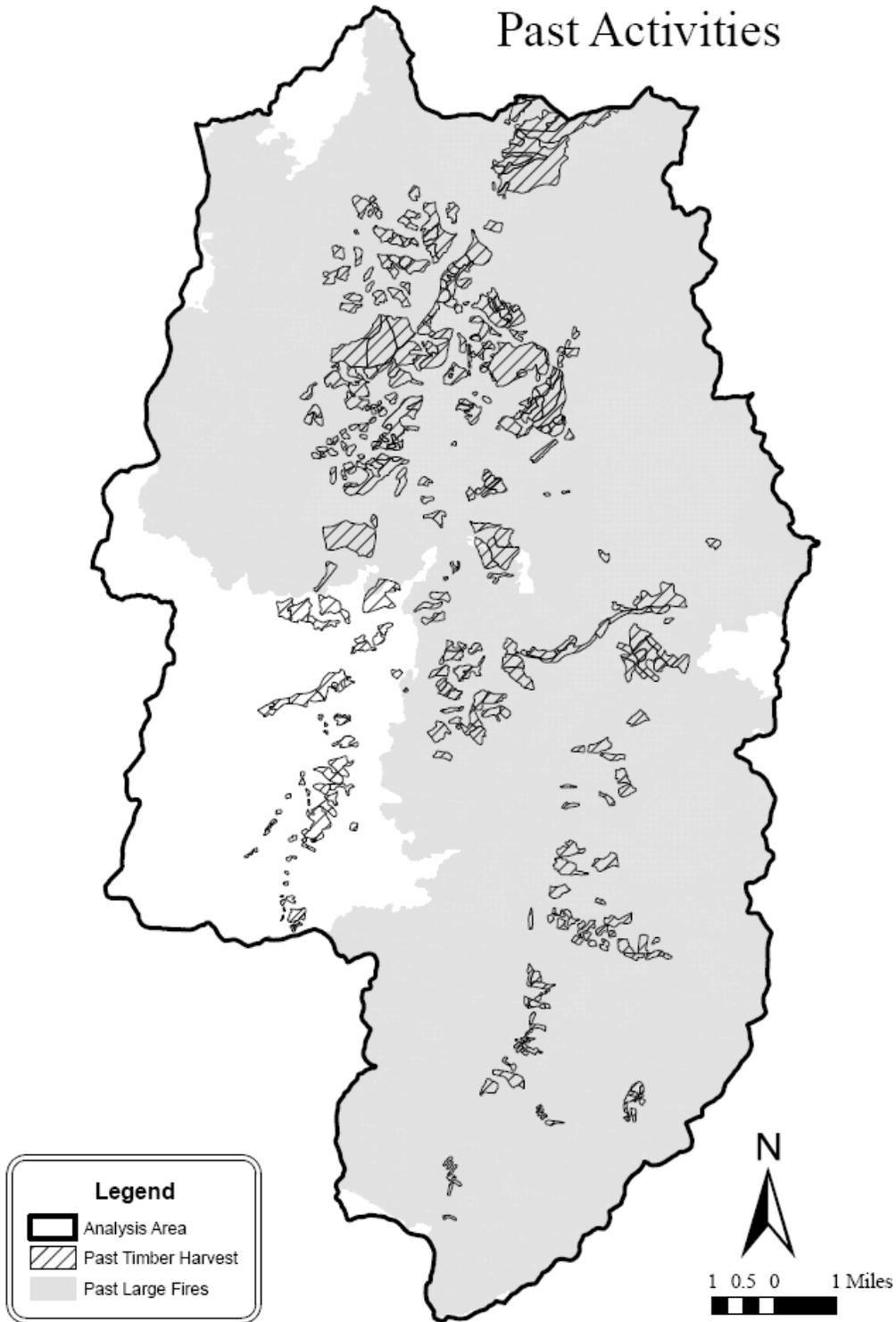
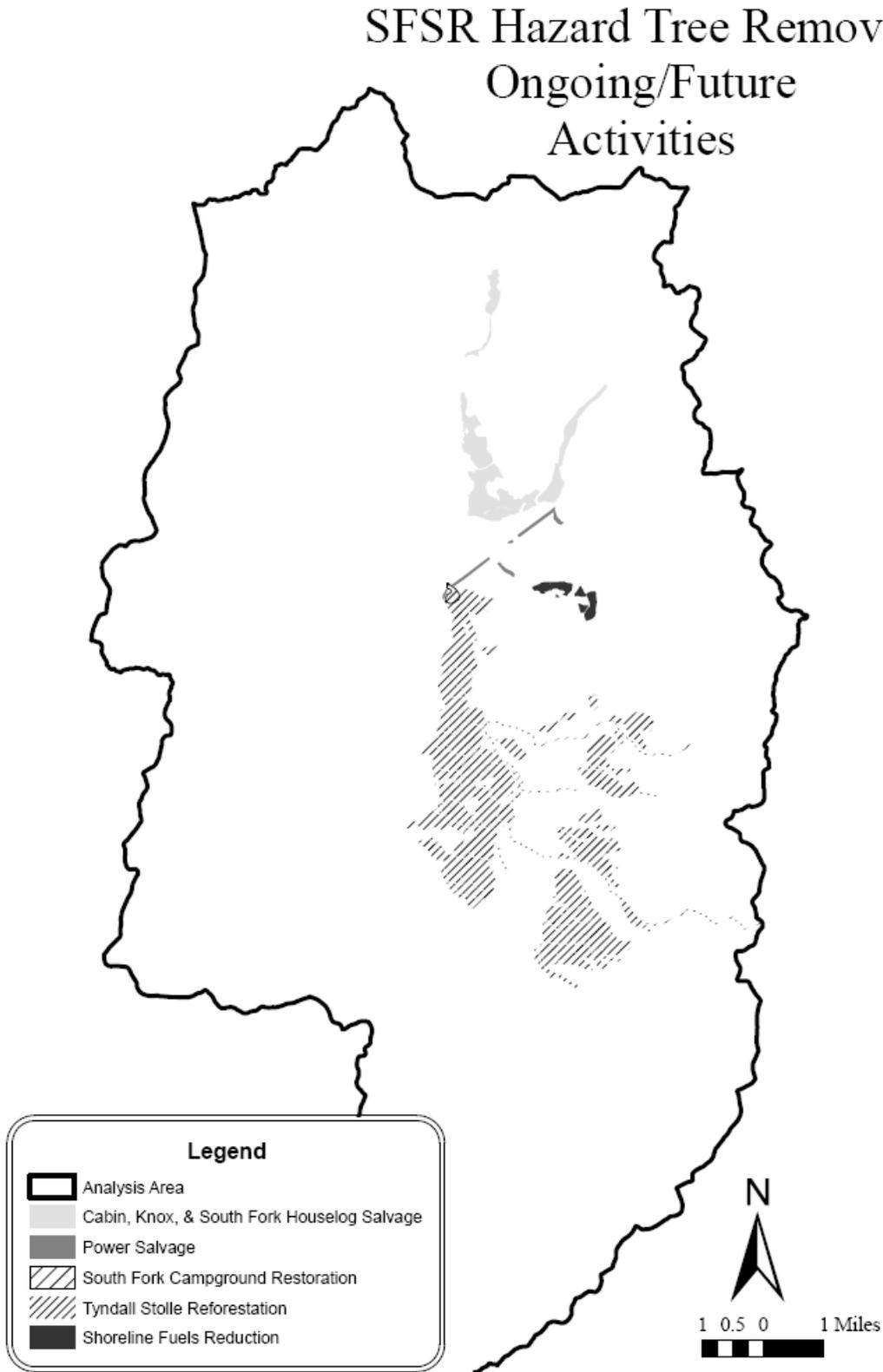


Figure 2 Ongoing and Foreseeable Future Activities within 103,804 Acre Cumulative Effects Area



SECTION 16.0

This section of the document discusses those past, ongoing, and reasonably foreseeable future actions considered in the cumulative effects analyses completed for: **Water Yield**.

16.1 Past Harvest Activities within the 104,431 Acre Cumulative Effects Area

Since 1950 an estimated 7,208 acres have been harvested within the cumulative effects area. Table 1 displays timber sales by year cut and acres harvested within the cumulative effects area. Silvicultural prescriptions varied in intensity and included seed cut, final removal, and preparation cut shelterwoods; clearcut; salvage; sanitation, and; individual tree selection.

Table 1 Past Timber Harvest

Sale Name	Year Cut	Acres
Old Cabin Creek	1950	211
Cabin Creek Houselog	1950	19
Kline Mountain	1954	217
Old Two Bit	1955	134
Old Cabin Creek	1955	7
Old Cabin Creek	1956	15
Trail Creek	1957	721
Upper Dollar Creek	1958	525
Chipmunk	1958	6
Six Bit	1958	38
Knox	1959	20
Two Bit	1959	31
Blue Point	1960	210
Two Bit	1960	244
Two Bit PC	1960	111
Bear Creek	1961	48
Roaring Creek	1961	30
Two Bit	1961	7
Mirror Creek	1961	21
Railroad Pass	1962	70
Cabin Creek Houselog	1963	5
Cabin Creek I	1963	177
Railroad Pass	1963	260
Six Bit	1963	3
South Fork Salmon	1964	64
Camp Creek	1964	335
Railroad Pass	1964	121
Camp Creek	1965	27
Dollar Creek	1965	499
South Fork Salmon	1965	270
Six Bit	1965	511
Blue Point	1966	39
Tyndall Creek	1966	201
Curtis Creek	1967	300
Tyndall Creek	1967	162
Curtis Creek	1968	58
Bear Creek Helicopter	1980	79
Roaring Creek	1981	106
Cabin Creek II	1985	107
Public Post & Pole	1986	74
Post & Pole Research	1986	13
Wildlife Clearcut	1993	8

Table 1 Past Timber Harvest (cont.)

Sale Name	Year Cut	Acres
Gump Commercial P & P	1994	12
SF Road Slash	1994	2
Six Bit PC	1995	13
Dead Washer	1996	116
Thunderbolt Salvage	1996	72
Public Post & Pole	1999	9
South Fork Houselogs	2006	330
Knox Salvage	2006	55
Cabin Salvage	2006	308
Power Salvage	2007	187

16.2 Past Wildfire Activities within the 104,431 Acre Cumulative Effects Area

Since 1910 roughly 74,147 acres within the cumulative effects area have been affected by wildfire. It should be noted that many of these acres, particularly those impacted in 2007, also burned in 2003 and/or 1994. Rather than list these acres twice, Table 2 reflects the most recent occurrence of wildfire on those acres, and the year of that wildfire.

Table 2 Past Wildfires

Wildfire Name	Year	Acres
Unknown	1910	1
Thunderbolt Wildfire	1994	2,206
South Fork Wildfire	2003	5,014
Cascade Complex Wildfire	2007	66,926

Figure 1 discloses the locations of past harvest and wildfire activities to the extent practicable and where the exact location is known.

16.3 Ongoing and Foreseeable Future Activities within the 104,431 Acre Cumulative Effects Area

For the purposes of this analysis any activity currently under contract or with a signed NEPA decision was considered an ongoing activity. Although circumstances such as litigation could prevent or delay implementation of these actions, it was assumed that they will proceed as described in their respective contracts and/or decision documents.

Removal of dead or dying trees through personal use firewood cutting or salvage sales would not result in a measurable increase in ECA or water yield.

Ongoing or foreseeable future activities within this cumulative effects area that could add incrementally to impacts on these resources include:

Shoreline Fuels Reduction Project – This project consists of mechanical mulching of 32 acres of sub-merchantable trees and hand thinning and piling of 77 acres of sub-merchantable trees, all in the vicinity of the Shoreline Campground. Implementation is scheduled to occur in 2008.

Tyndall Stolle Reforestation Project – This project consists of planting conifers on an estimated 4,127 acres that burned at a high or moderate intensity where competing vegetation is expected and/or where no seed source is present to facilitate natural regeneration. Planting activities are projected to occur in the spring and fall of 2008 and 2009.

Figure 2 discloses the locations of ongoing and foreseeable future activities to the extent practicable and where the exact location is known.

Figure 1 Past Activities within 104,431 Acre Cumulative Effects Area

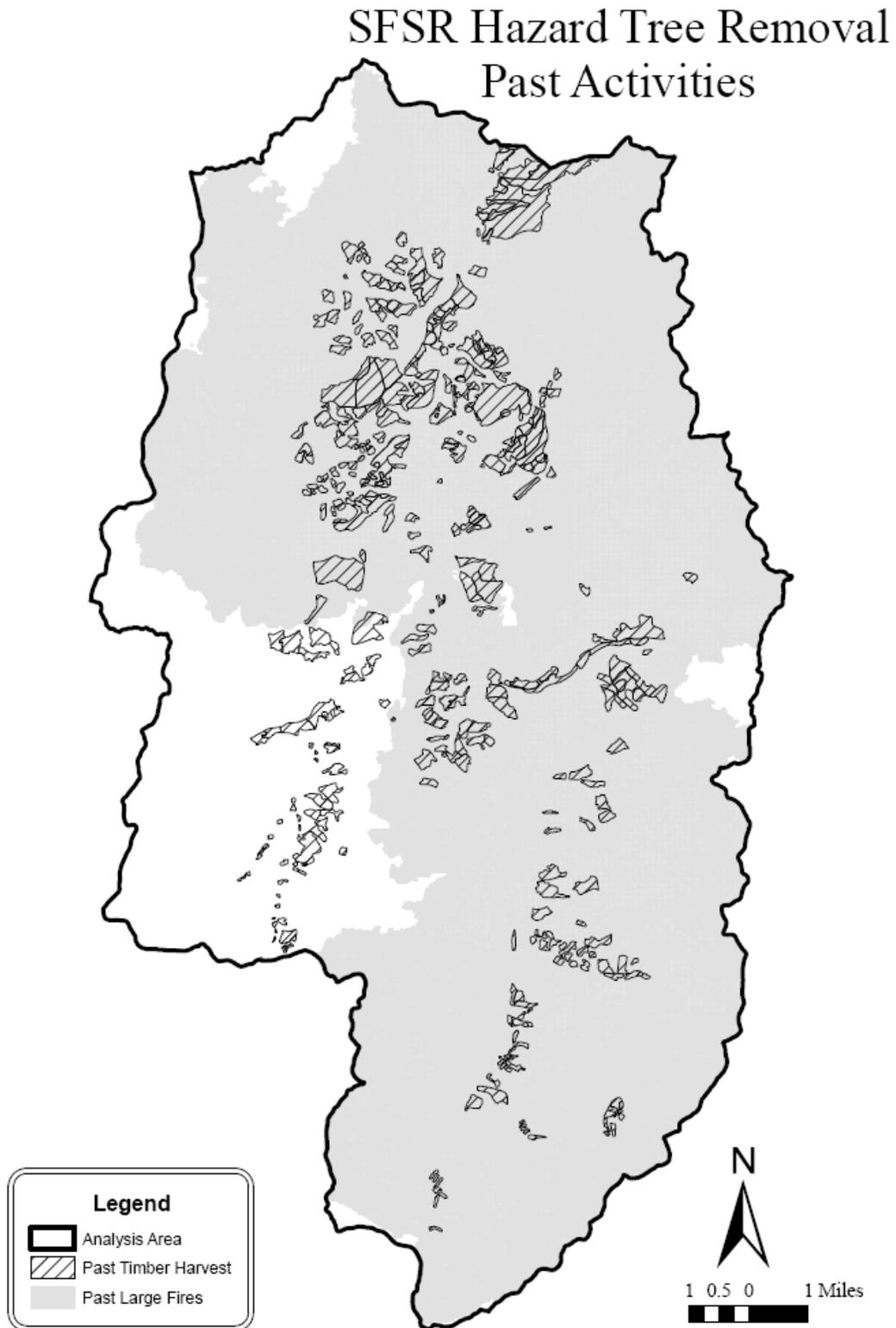
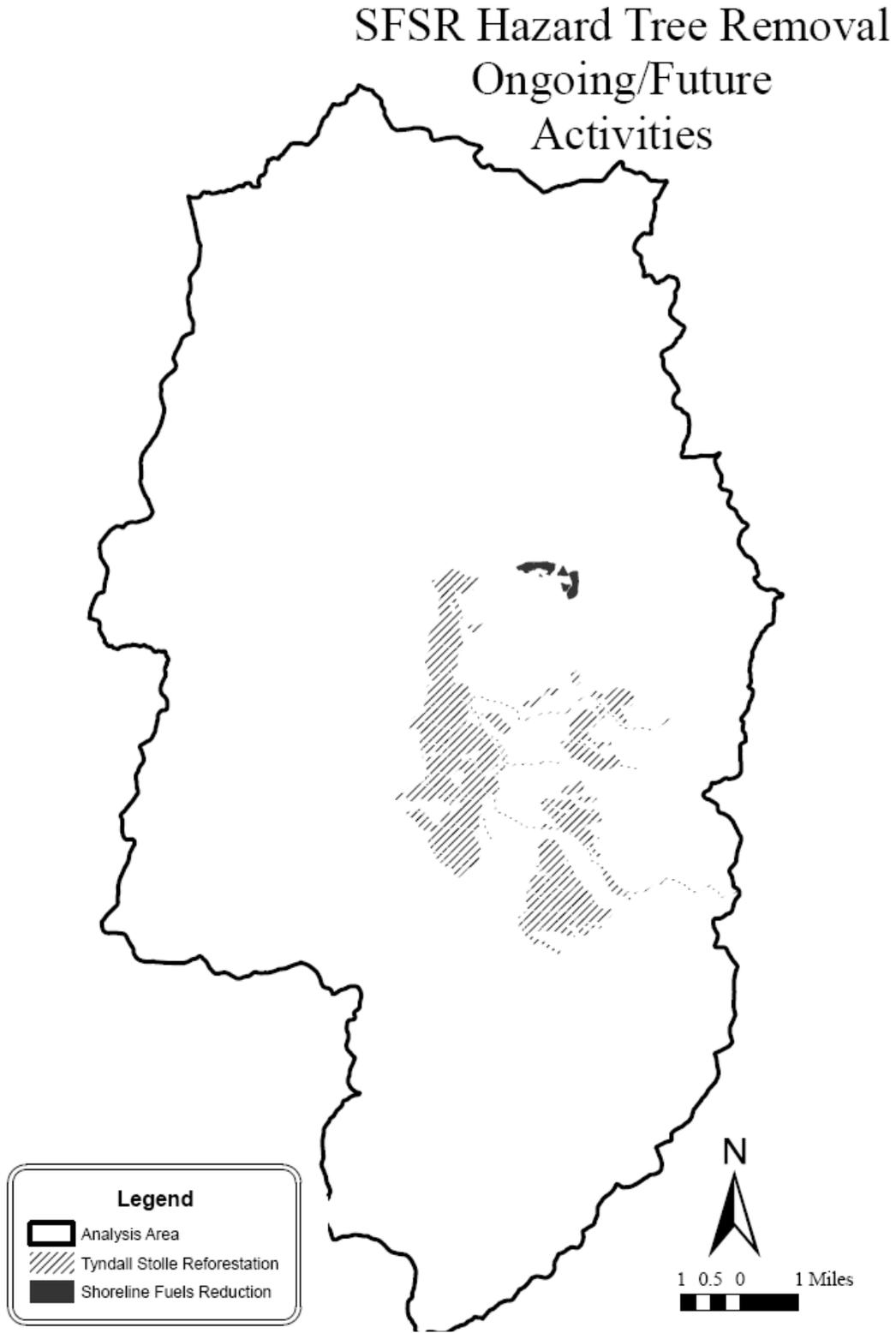


Figure 2 Ongoing and Foreseeable Future Activities within 104,431 Acre Cumulative Effects Area



SECTION 17.0

This section of the document discusses those past, ongoing, and reasonably foreseeable future actions considered in the cumulative effects analyses completed for: **Erosion/Sedimentation and Slope Stability**.

17.1 Past Harvest Activities within the 104,431 Acre Cumulative Effects Area

Since 1950 an estimated 7,208 acres have been harvested within the cumulative effects area. Table 1 displays timber sales by year cut and acres harvested within the cumulative effects area. Silvicultural prescriptions varied in intensity and included seed cut, final removal, and preparation cut shelterwoods; clearcut; salvage; sanitation, and; individual tree selection.

Table 1 Past Timber Harvest

Sale Name	Year Cut	Acres
Old Cabin Creek	1950	211
Cabin Creek Houselog	1950	19
Kline Mountain	1954	217
Old Two Bit	1955	134
Old Cabin Creek	1955	7
Old Cabin Creek	1956	15
Trail Creek	1957	721
Upper Dollar Creek	1958	525
Chipmunk	1958	6
Six Bit	1958	38
Knox	1959	20
Two Bit	1959	31
Blue Point	1960	210
Two Bit	1960	244
Two Bit PC	1960	111
Bear Creek	1961	48
Roaring Creek	1961	30
Two Bit	1961	7
Mirror Creek	1961	21
Railroad Pass	1962	70
Cabin Creek Houselog	1963	5
Cabin Creek I	1963	177
Railroad Pass	1963	260
Six Bit	1963	3
South Fork Salmon	1964	64
Camp Creek	1964	335
Railroad Pass	1964	121
Camp Creek	1965	27
Dollar Creek	1965	499
South Fork Salmon	1965	270
Six Bit	1965	511
Blue Point	1966	39
Tyndall Creek	1966	201
Curtis Creek	1967	300
Tyndall Creek	1967	162
Curtis Creek	1968	58
Bear Creek Helicopter	1980	79
Roaring Creek	1981	106
Cabin Creek II	1985	107
Public Post & Pole	1986	74

Table 1 Past Timber Harvest (cont.)

Sale Name	Year Cut	Acres
Post & Pole Research	1986	13
Wildlife Clearcut	1993	8
Gump Commercial P & P	1994	12
SF Road Slash	1994	2
Six Bit PC	1995	13
Dead Washer	1996	116
Thunderbolt Salvage	1996	72
Public Post & Pole	1999	9
South Fork Houselogs	2006	330
Knox Salvage	2006	55
Cabin Salvage	2006	308
Power Salvage	2007	187

17.2 Past Wildfire Activities within the 104,431 Acre Cumulative Effects Area

Since 1910 roughly 74,147 acres within the cumulative effects area have been affected by wildfire. It should be noted that many of these acres, particularly those impacted in 2007, also burned in 2003 and/or 1994. Rather than list these acres twice, Table 2 reflects the most recent occurrence of wildfire on those acres, and the year of that wildfire.

Table 2 Past Wildfires

Wildfire Name	Year	Acres
Unknown	1910	1
Thunderbolt Wildfire	1994	2,206
South Fork Wildfire	2003	5,014
Cascade Complex Wildfire	2007	66,926

17.3 Past Road-related Activities within the 103,804 Acre Cumulative Effects Area

This cumulative effects area currently has roughly 233 miles of open and closed authorized roads, plus an additional three miles of open or closed unauthorized roads. Roughly 121 miles of authorized roads provide passenger vehicle access during some portion of the year. Warm Lake Highway (FH22), the #474.1 road, and a portion of the #579 road to Warm Lake Lodge, are plowed during the winter months in order to maintain passenger vehicle access. Seven of the 121 miles are open to passenger vehicles during the summer months but closed seasonally in September of each year. The remaining 112 miles of authorized roads in the analysis area are closed year-round to passenger vehicles. This area also contains 34 miles of motorized trails and 15 miles of non-motorized trails.

Figure 1 discloses the locations of past harvest and wildfire activities, and roads and trails, to the extent practicable and where the exact location is known.

17.4 Ongoing and Foreseeable Future Activities within the 104,431 Acre Cumulative Effects Area

For the purposes of this analysis any activity currently under contract or with a signed NEPA decision was considered an ongoing activity. Although circumstances such as litigation could prevent or delay implementation of these actions, it was assumed that they will proceed as described in their respective contracts and/or decision documents.

Ongoing or foreseeable future activities within this cumulative effects area that could add incrementally to impacts on these resources include:

Cabin Salvage, Knox Salvage, and South Fork Houselog Salvage I Sales – These three salvage sales, all under contract to the same Purchaser, were offered following the 2003 South Fork Wildfire. At this

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time the majority of the included timber has already been removed. However, the Purchaser is expected to continue to remove small amounts of fire-killed and imminently dead timber in 2008.

Power Salvage Sale – This salvage sale permits the removal of downed trees only from 66 acres within sections of the right-of-way of the overhead power line in the Warm Lake Basin. This contract is projected to terminate in July of 2008.

South Fork Campground Restoration Project – While still in the developmental phase, the objective of this project would be to minimize the fire-induced effects of the 2007 wildfire on the 10 acre South Fork Campground by removing hazard trees, planting conifers, and implementing other restorative activities. The environmental analysis for this project is tentatively scheduled to occur in 2008 with implementation in 2009 or 2010.

Shoreline Fuels Reduction Project – This project consists of mechanical mulching of 32 acres of sub-merchantable trees and hand thinning and piling of 77 acres of sub-merchantable trees, all in the vicinity of the Shoreline Campground. Implementation is scheduled to occur in 2008.

Tyndall Stolle Reforestation Project – This project consists of planting conifers on an estimated 4,127 acres that burned at a high or moderate intensity where competing vegetation is expected and/or where no seed source is present to facilitate natural regeneration. Planting activities are projected to occur in the spring and fall of 2008 and 2009.

SFSR Travel Management Project - While still in the developmental phase, the objective of this project would be to minimize undesirable impacts associated with poorly located dispersed campsites and authorized and unauthorized roads and/or trails causing resource damage, as well as to address under-sized culverts, fish passage barriers, and/or structures damaged by the 2007 wildfire in the South Fork Salmon River drainage. The environmental analysis for this project is tentatively scheduled to occur in 2008 with implementation in 2009 or 2010.

Warm Lake Highway Reconstruction Project – The majority of this project was completed in the summer of 2007 and included repair and resurfacing of the Warm Lake Highway (FH22) from Big Creek Summit to its crossing of the South Fork Salmon River.

Road Use and Road Maintenance – In addition to the ongoing use associated with recreational activities, roads within the area would continue to receive routine maintenance and/or repair as priorities dictate and funding allows.

BAER Culvert Replacements – A number of culverts removed in the fall of 2007 as part of the Cascade Complex BAER project would be reinstalled in the summer of 2008.

Figure 2 discloses the locations of ongoing and foreseeable future activities to the extent practicable and where the exact location is known.

Figure 1 Past Activities within 104,431 Acre Cumulative Effects Area

SFSR Hazard Tree Removal Past Activities

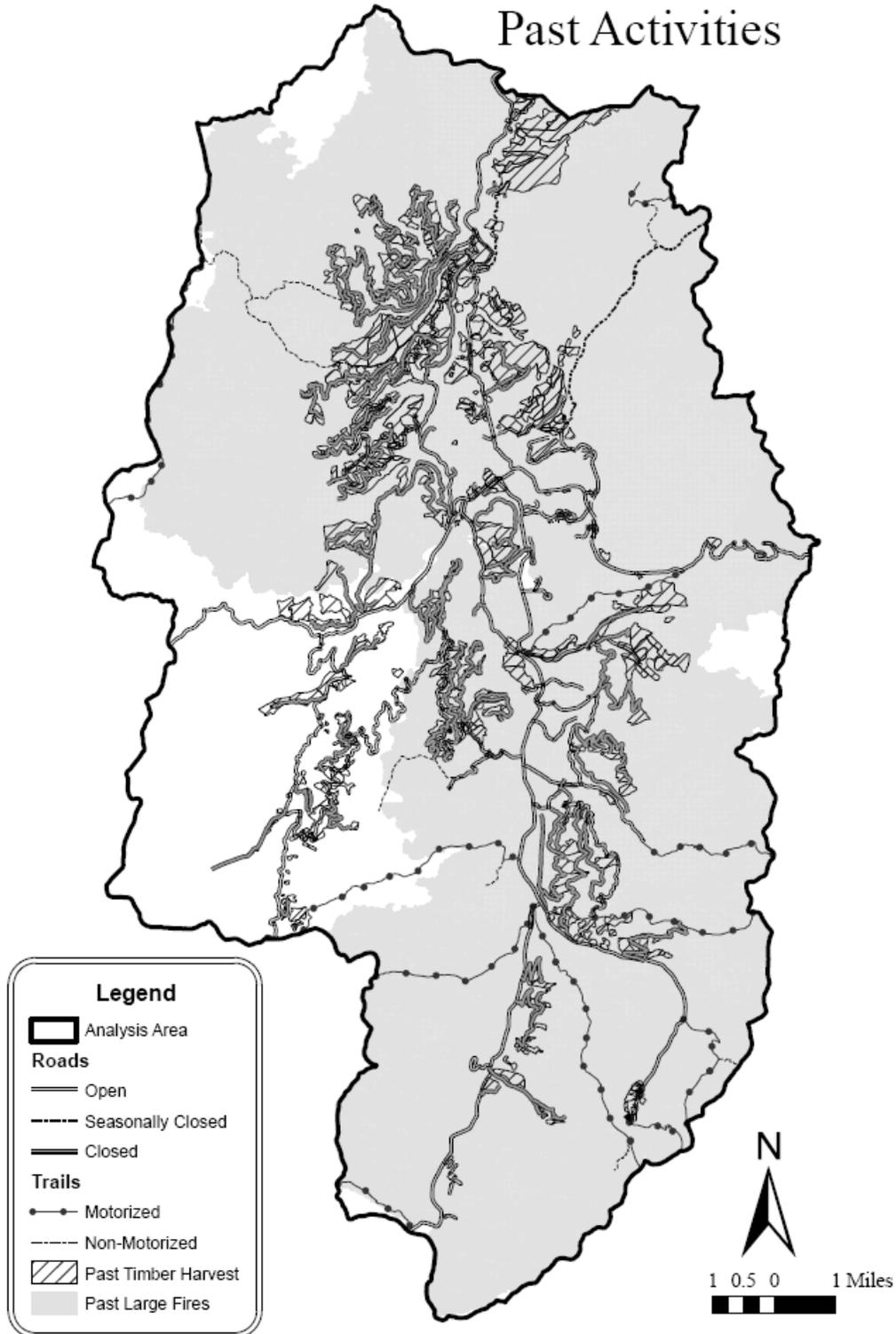
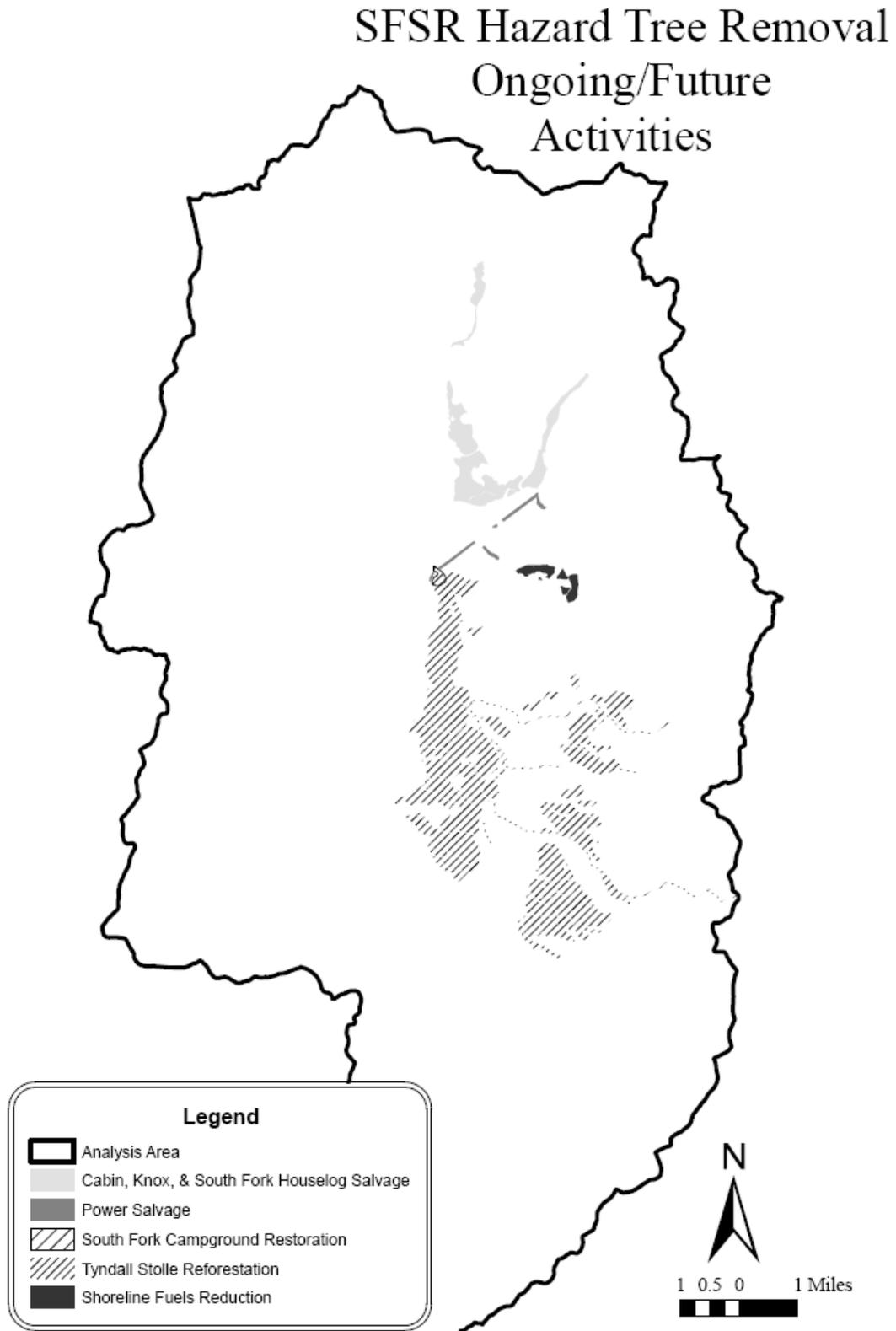


Figure 2 Ongoing and Foreseeable Future Activities within 104,431 Acre Cumulative Effects Area



SECTION 18.0

This section of the document discusses those past, ongoing, and reasonably foreseeable future actions considered in the cumulative effects analyses completed for: **Fisheries**.

18.1 Past Harvest Activities within the 104,431 Acre Cumulative Effects Area

Since 1950 an estimated 7,208 acres have been harvested within the cumulative effects area. Table 1 displays timber sales by year cut and acres harvested within the cumulative effects area. Silvicultural prescriptions varied in intensity and included seed cut, final removal, and preparation cut shelterwoods; clearcut; salvage; sanitation, and; individual tree selection.

Table 1 Past Timber Harvest

Sale Name	Year Cut	Acres
Old Cabin Creek	1950	211
Cabin Creek Houselog	1950	19
Kline Mountain	1954	217
Old Two Bit	1955	134
Old Cabin Creek	1955	7
Old Cabin Creek	1956	15
Trail Creek	1957	721
Upper Dollar Creek	1958	525
Chipmunk	1958	6
Six Bit	1958	38
Knox	1959	20
Two Bit	1959	31
Blue Point	1960	210
Two Bit	1960	244
Two Bit PC	1960	111
Bear Creek	1961	48
Roaring Creek	1961	30
Two Bit	1961	7
Mirror Creek	1961	21
Railroad Pass	1962	70
Cabin Creek Houselog	1963	5
Cabin Creek I	1963	177
Railroad Pass	1963	260
Six Bit	1963	3
South Fork Salmon	1964	64
Camp Creek	1964	335
Railroad Pass	1964	121
Camp Creek	1965	27
Dollar Creek	1965	499
South Fork Salmon	1965	270
Six Bit	1965	511
Blue Point	1966	39
Tyndall Creek	1966	201
Curtis Creek	1967	300
Tyndall Creek	1967	162
Curtis Creek	1968	58
Bear Creek Helicopter	1980	79
Roaring Creek	1981	106
Cabin Creek II	1985	107
Public Post & Pole	1986	74

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Table 1 Past Timber Harvest (cont.)

Sale Name	Year Cut	Acres
Post & Pole Research	1986	13
Wildlife Clearcut	1993	8
Gump Commercial P & P	1994	12
SF Road Slash	1994	2
Six Bit PC	1995	13
Dead Washer	1996	116
Thunderbolt Salvage	1996	72
Public Post & Pole	1999	9
South Fork Houselogs	2006	330
Knox Salvage	2006	55
Cabin Salvage	2006	308
Power Salvage	2007	187

18.2 Past Wildfire Activities within the 104,431 Acre Cumulative Effects Area

Since 1910 roughly 74,147 acres within the cumulative effects area have been affected by wildfire. It should be noted that many of these acres, particularly those impacted in 2007, also burned in 2003 and/or 1994. Rather than list these acres twice, Table 2 reflects the most recent occurrence of wildfire on those acres, and the year of that wildfire.

Table 2 Past Wildfires

Wildfire Name	Year	Acres
Unknown	1910	1
Thunderbolt Wildfire	1994	2,206
South Fork Wildfire	2003	5,014
Cascade Complex Wildfire	2007	66,926

18.3 Past Road-related Activities within the 26,185 Acre Cumulative Effects Area

This cumulative effects area currently has roughly 233 miles of open and closed authorized roads, plus an additional three miles of open or closed unauthorized roads. Roughly 121 miles of authorized roads provide passenger vehicle access during some portion of the year. Warm Lake Highway (FH22), the #474.1 road, and a portion of the #579 road to Warm Lake Lodge, are plowed during the winter months in order to maintain passenger vehicle access. Seven of the 121 miles are open to passenger vehicles during the summer months but closed seasonally in September of each year. The remaining 112 miles of authorized roads in the analysis area are closed year-round to passenger vehicles. This area also contains 34 miles of motorized trails and 15 miles of non-motorized trails.

Figure 1 discloses the locations of past harvest and wildfire activities, and roads and trails, to the extent practicable and where the exact location is known.

18.4 Ongoing and Foreseeable Future Activities within the 104,431 Acre Cumulative Effects Area

For the purposes of this analysis any activity currently under contract or with a signed NEPA decision was considered an ongoing activity. Although circumstances such as litigation could prevent or delay implementation of these actions, it was assumed that they will proceed as described in their respective contracts and/or decision documents.

Removal of dead or dying trees through personal use firewood cutting is prohibited within RCAs and therefore not considered relevant to this analysis.

Ongoing or foreseeable future activities within this cumulative effects area that could add incrementally to impacts on these resources include:

Cabin Salvage, Knox Salvage, and South Fork Houselog Salvage I Sales – These three salvage sales, all under contract to the same Purchaser, were offered following the 2003 South Fork Wildfire. At this time the majority of the included timber has already been removed. However, the Purchaser is expected to continue to remove small amounts of fire-killed and imminently dead timber in 2008.

Power Salvage Sale – This salvage sale permits the removal of downed trees only from 66 acres within sections of the right-of-way of the overhead power line in the Warm Lake Basin. This contract is projected to terminate in July of 2008.

South Fork Campground Restoration Project – While still in the developmental phase, the objective of this project would be to minimize the fire-induced effects of the 2007 wildfire on the 10 acre South Fork Campground by removing hazard trees, planting conifers, and implementing other restorative activities. The environmental analysis for this project is tentatively scheduled to occur in 2008 with implementation in 2009 or 2010.

Shoreline Fuels Reduction Project – This project consists of mechanical mulching of 32 acres of sub-merchantable trees and hand thinning and piling of 77 acres of sub-merchantable trees, all in the vicinity of the Shoreline Campground. Implementation is scheduled to occur in 2008.

Tyndall Stolle Reforestation Project – This project consists of planting conifers on an estimated 4,127 acres that burned at a high or moderate intensity where competing vegetation is expected and/or where no seed source is present to facilitate natural regeneration. Planting activities are projected to occur in the spring and fall of 2008 and 2009.

Miscellaneous Recreational Activities – Numerous recreation-related uses in the area, such as church camps, hunting, camping, firewood cutting, and sightseeing, are expected to continue in the future.

SFSR Travel Management Project - While still in the developmental phase, the objective of this project would be to minimize undesirable impacts associated with poorly located dispersed campsites and authorized and unauthorized roads and/or trails causing resource damage, as well as to address under-sized culverts, fish passage barriers, and/or structures damaged by the 2007 wildfire in the South Fork Salmon River drainage. The environmental analysis for this project is tentatively scheduled to occur in 2008 with implementation in 2009 or 2010.

Sport Fishing for Salmon - The State of Idaho allows sport fishing of Chinook salmon in the South Fork Salmon River on a year to year basis depending on the number of returning fish. This season varies annually in length and the numbers of fish permissible to take, which indirectly influences the amount of use in the cumulative effects area.

Tribal Fishing for Salmon – Tribal members still exercise their treaty rights to fish for salmon in the South Fork Salmon River. In recent years, the salmon runs have increased due to hatchery-raised stock being released to supplement the wild runs. Similarly to sport fishing, the amount of tribal fishing in any given year influences the amount of use in the cumulative effects area.

Warm Lake Highway Reconstruction Project – The majority of this project was completed in the summer of 2007 and included repair and resurfacing of the Warm Lake Highway (FH22) from Big Creek Summit to its crossing of the South Fork Salmon River.

Road Use and Road Maintenance – In addition to the ongoing use associated with recreational activities, roads within the area would continue to receive routine maintenance and/or repair as priorities dictate and funding allows.

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BAER Culvert Replacements – A number of culverts removed in the fall of 2007 as part of the Cascade Complex BAER project would be reinstalled in the summer of 2008.

Figure 2 discloses the locations of ongoing and foreseeable future activities to the extent practicable and where the exact location is known.

Figure 1 Past Activities within 104,431 Acre Cumulative Effects Area

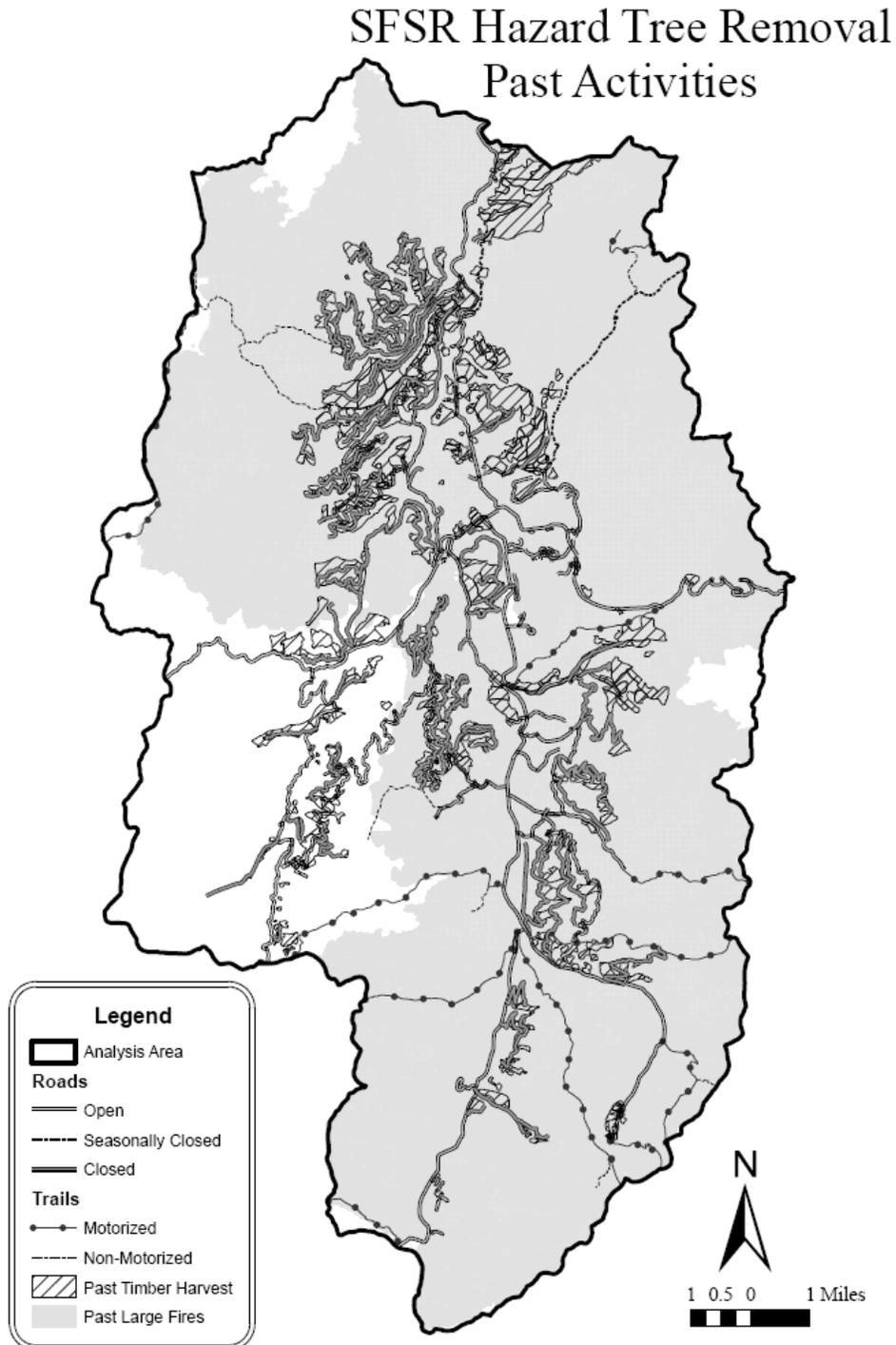
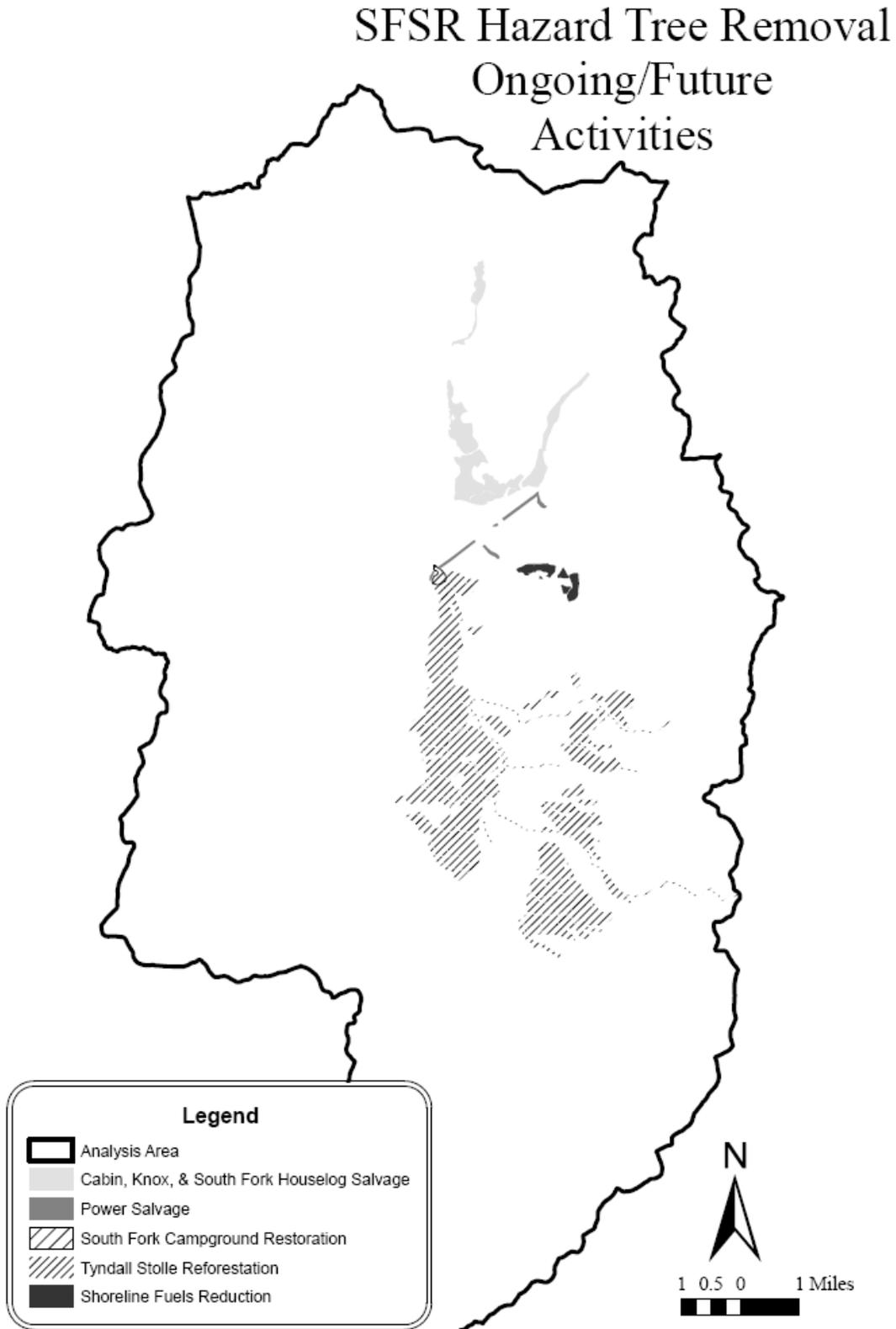


Figure 2 Ongoing and Foreseeable Future Activities within 104,431 Acre Cumulative Effects Area



SECTION 19.0

This section of the document discusses those past, ongoing, and reasonably foreseeable future actions considered in the cumulative effects analyses completed for: **Lynx and Northern Idaho Ground Squirrel**.

19.1 Past Harvest Activities within the 103,804 Acre Cumulative Effects Area

Since 1950 an estimated 7,208 acres have been harvested within the cumulative effects area. Table 1 displays timber sales by year cut and acres harvested within the cumulative effects area. Silvicultural prescriptions varied in intensity and included seed cut, final removal, and preparation cut shelterwoods; clearcut; salvage; sanitation, and; individual tree selection.

Table 1 Past Timber Harvest

Sale Name	Year Cut	Acres
Old Cabin Creek	1950	211
Cabin Creek Houselog	1950	19
Kline Mountain	1954	217
Old Two Bit	1955	134
Old Cabin Creek	1955	7
Old Cabin Creek	1956	15
Trail Creek	1957	721
Upper Dollar Creek	1958	525
Chipmunk	1958	6
Six Bit	1958	38
Knox	1959	20
Two Bit	1959	31
Blue Point	1960	210
Two Bit	1960	244
Two Bit PC	1960	111
Bear Creek	1961	48
Roaring Creek	1961	30
Two Bit	1961	7
Mirror Creek	1961	21
Railroad Pass	1962	70
Cabin Creek Houselog	1963	5
Cabin Creek I	1963	177
Railroad Pass	1963	260
Six Bit	1963	3
South Fork Salmon	1964	64
Camp Creek	1964	335
Railroad Pass	1964	121
Camp Creek	1965	27
Dollar Creek	1965	499
South Fork Salmon	1965	270
Six Bit	1965	511
Blue Point	1966	39
Tyndall Creek	1966	201
Curtis Creek	1967	300
Tyndall Creek	1967	162
Curtis Creek	1968	58
Bear Creek Helicopter	1980	79
Roaring Creek	1981	106

Table 1 Past Timber Harvest (cont.)

Sale Name	Year Cut	Acres
Cabin Creek II	1985	107
Public Post & Pole	1986	74
Post & Pole Research	1986	13
Wildlife Clearcut	1993	8
Gump Commercial P & P	1994	12
SF Road Slash	1994	2
Six Bit PC	1995	13
Dead Washer	1996	116
Thunderbolt Salvage	1996	72
Public Post & Pole	1999	9
South Fork Houselogs	2006	330
Knox Salvage	2006	55
Cabin Salvage	2006	308
Power Salvage	2007	187

19.2 Past Wildfire Activities within the 103,804 Acre Cumulative Effects Area

Since 1910 roughly 67,853 acres within the cumulative effects area have been affected by wildfire. It should be noted that many of these acres, particularly those impacted in 2007, also burned in 2003 and/or 1994. Rather than list these acres twice, Table 2 reflects the most recent occurrence of wildfire on those acres, and the year of that wildfire.

Table 2 Past Wildfires

Wildfire Name	Year	Acres
Unknown	1910	1
Thunderbolt Wildfire	1994	2,206
South Fork Wildfire	2003	5,014
Cascade Complex Wildfire	2007	60,632

Figure 1 discloses the locations of past harvest and wildfire activities to the extent practicable and where the exact location is known.

19.3 Ongoing and Foreseeable Future Activities within the 103,804 Acre Cumulative Effects Area

For the purposes of this analysis any activity currently under contract or with a signed NEPA decision was considered an ongoing activity. Although circumstances such as litigation could prevent or delay implementation of these actions, it was assumed that they will proceed as described in their respective contracts and/or decision documents.

Ongoing or foreseeable future activities within this cumulative effects area that could add incrementally to impacts on these resources include:

Personal Use Firewood - Personal use firewood cutting is expected to continue into the foreseeable future and would likely reduce the quantity of fire-damaged trees within 100 to 200 feet of open roads.

Cabin Salvage, Knox Salvage, and South Fork Houselog Salvage I Sales – These three salvage sales, all under contract to the same Purchaser, were offered following the 2003 South Fork Wildfire. At this time the majority of the included timber has already been removed. However, the Purchaser is expected to continue to remove small amounts of fire-killed and imminently dead timber in 2008.

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Power Salvage Sale – This salvage sale permits the removal of downed trees only from 66 acres within sections of the right-of-way of the overhead power line in the Warm Lake Basin. This contract is projected to terminate in July of 2008.

South Fork Campground Restoration Project – While still in the developmental phase, the objective of this project would be to minimize the fire-induced effects of the 2007 wildfire on the 10 acre South Fork Campground by removing hazard trees, planting conifers, and implementing other restorative activities. The environmental analysis for this project is tentatively scheduled to occur in 2008 with implementation in 2009 or 2010.

Shoreline Fuels Reduction Project – This project consists of mechanical mulching of 32 acres of sub-merchantable trees and hand thinning and piling of 77 acres of sub-merchantable trees, all in the vicinity of the Shoreline Campground. Implementation is scheduled to occur in 2008.

Tyndall Stolle Reforestation Project – This project consists of planting conifers on an estimated 4,127 acres that burned at a high or moderate intensity where competing vegetation is expected and/or where no seed source is present to facilitate natural regeneration. Planting activities are projected to occur in the spring and fall of 2008 and 2009.

SFSR Travel Management Project - While still in the developmental phase, the objective of this project would be to minimize undesirable impacts associated with poorly located dispersed campsites and authorized and unauthorized roads and/or trails causing resource damage, as well as to address under-sized culverts, fish passage barriers, and/or structures damaged by the 2007 wildfire in the South Fork Salmon River drainage. The environmental analysis for this project is tentatively scheduled to occur in 2008 with implementation in 2009 or 2010.

Traffic on Warm Lake Highway (FH22) – Road use data collected on this route near the South Fork Salmon River Campground in 1991 yielded an average use of 318 vehicles/day between June and November. Assuming an average annual increase of two percent since that data was collected, the average use in 2008 would be approximately 435 vehicles/day. This use level would be expected to continue to gradually increase into the foreseeable future.

Figure 2 discloses the locations of ongoing and foreseeable future activities to the extent practicable and where the exact location is known.

Figure 1 Past Activities within 103,804 Acre Cumulative Effects Area

SFSR Hazard Tree Removal Past Activities

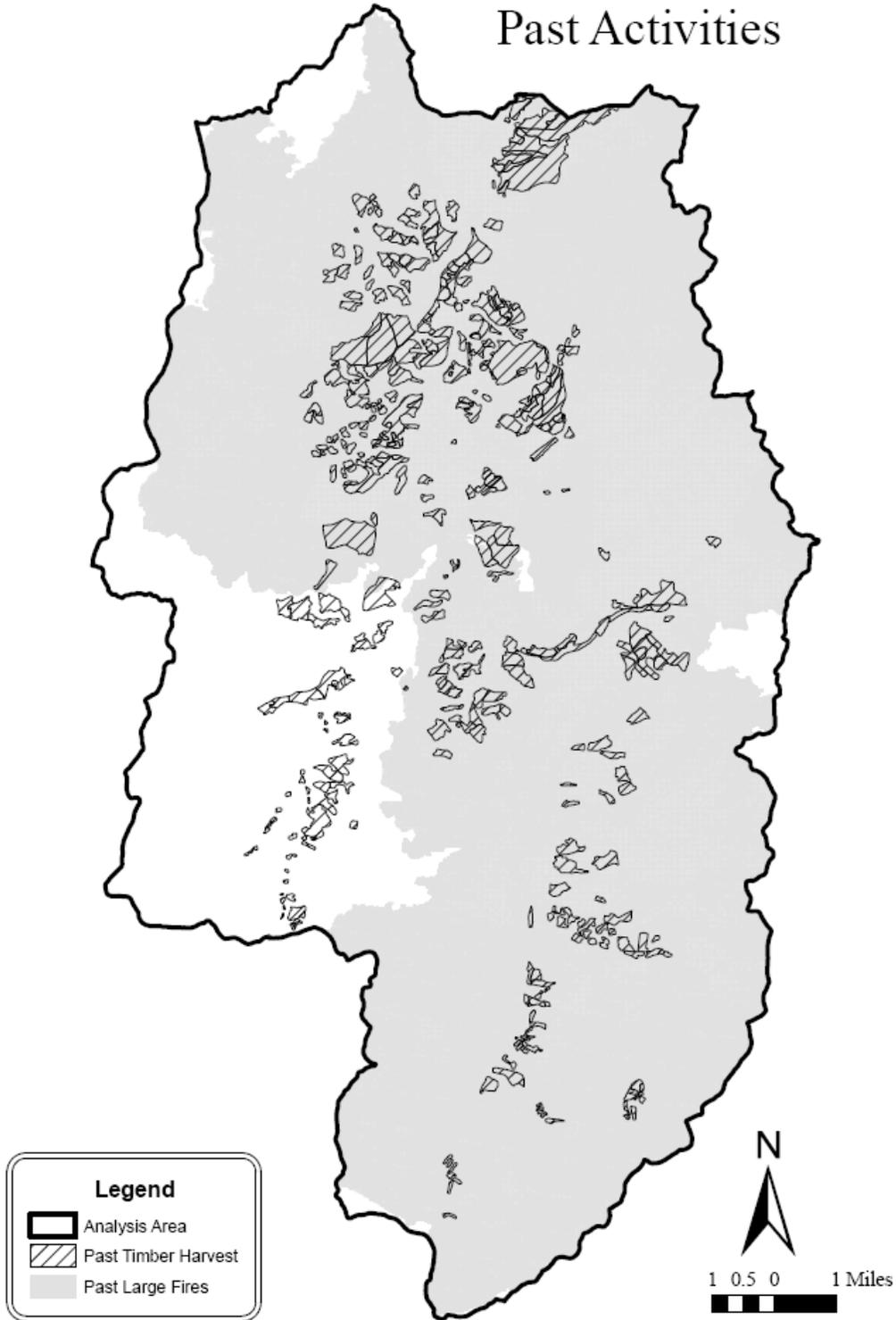


Figure 2 Ongoing and Foreseeable Future Activities within 103,804 Acre Cumulative Effects Area

SFSR Hazard Tree Removal Ongoing/Future Activities

