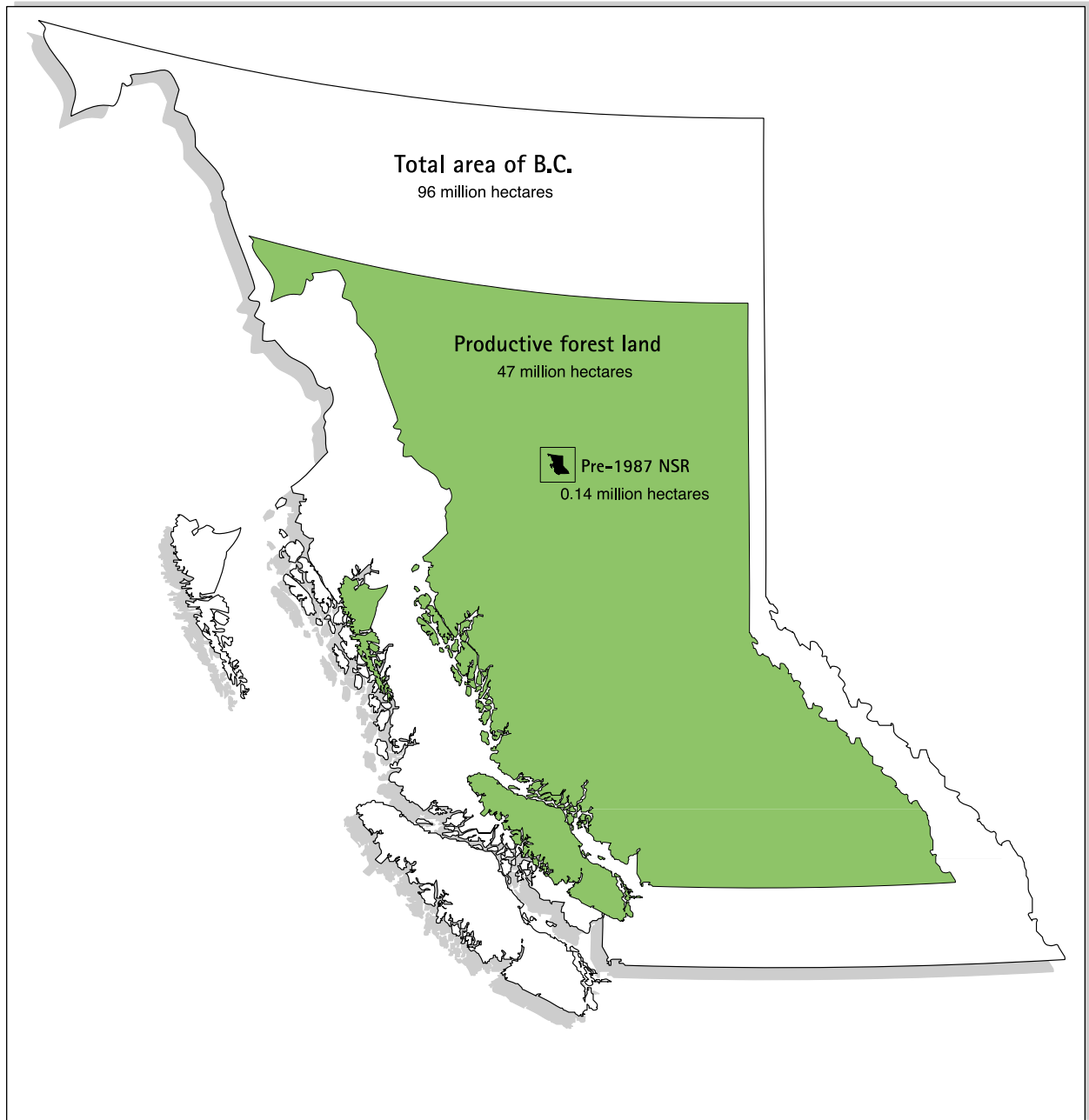




# 2001 Summary of Backlog NSR and Impeded Forest Land



**National Library of Canada Cataloguing in Publication Data**

Main entry under title:

Summary of backlog NSR and impeded forest land. — 2001—

Irregular.

Title from cover.

Co-published by: Forest Renewal BC.

Continues: Summary of backlog not satisfactorily restocked forest land. ISSN 1488-0822.

ISSN 1499-1225 = Summary of backlog NSR and impeded forest land

1. Reforestation — British Columbia — Statistics — Periodicals. 2. Forest management — British Columbia — Statistics — Periodicals. I. British Columbia. Forest Practices Branch. II. Forest Renewal BC. III. Title: Summary of backlog not satisfactorily restocked and impeded forest land.

SD146.B7S95 333.75'11'0971105 C2001-960194-8

© 2001 Province of British Columbia

## Executive Summary

---

The 1984 Forest and Range Resource Analysis estimated that there were 738 000 hectares of good and medium site Crown land that had been harvested, burned by wildfire, destroyed by pests or other damage and were classified as backlog (pre-1982) not satisfactorily restocked (NSR). These areas were considered economically viable for timber production and given a high priority for silviculture activities. In 1995, the *Forest Practices Code of British Columbia Act* re-defined a backlog area as “an area from which the timber was harvested, damaged or destroyed before October 1, 1987; and, which in the district manager’s opinion, is insufficiently stocked with healthy, well-spaced trees of a commercially acceptable species.” Therefore, summary reports produced prior to that date included only pre-82 backlog NSR, while subsequent reports include information on both pre-82 and 1982–87 backlog NSR.

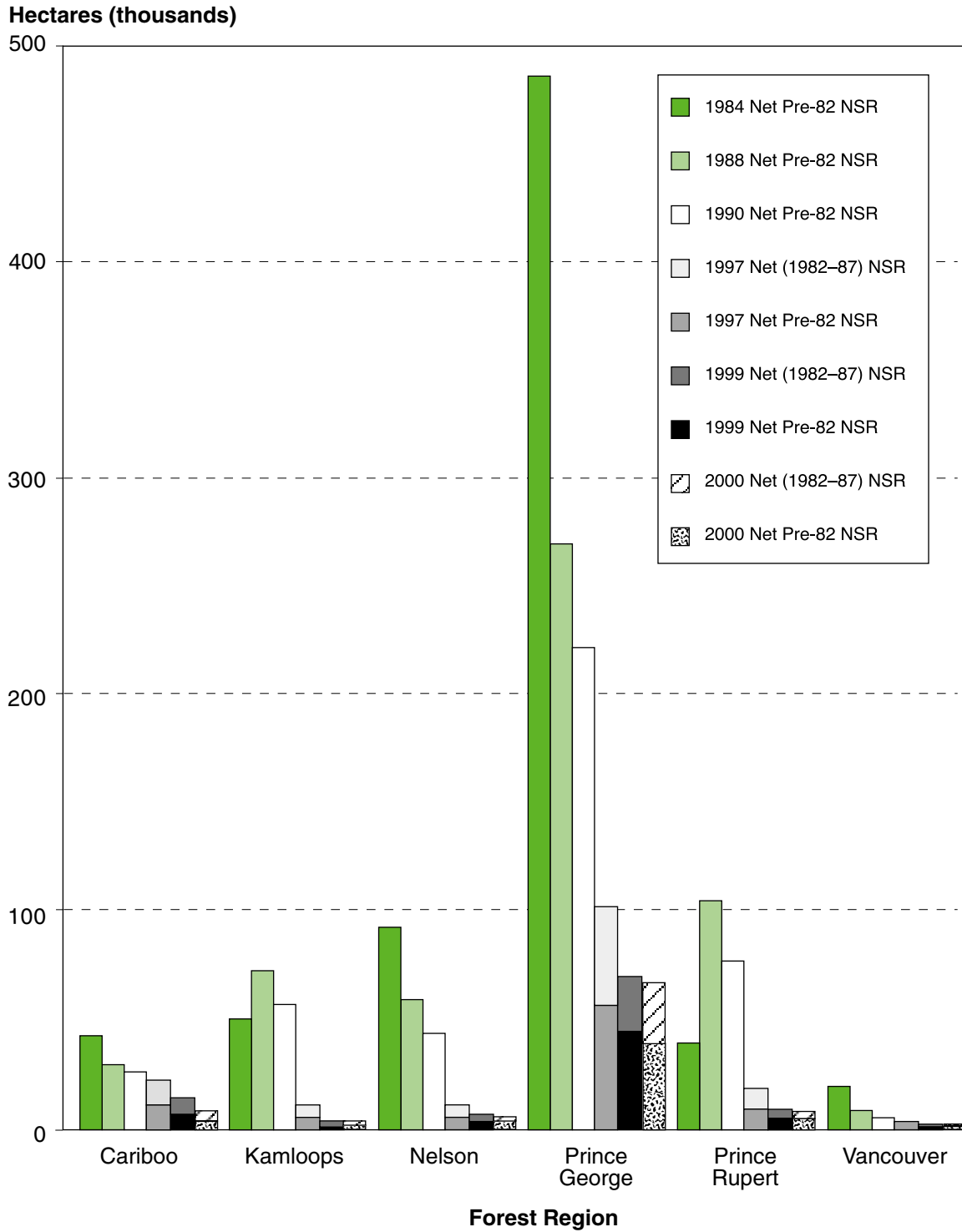
The present summary indicates that as of February 2001, there were 55 421 hectares of treatable pre-1982 backlog NSR remaining on good and medium sites, and 40 548 hectares of treatable 1982–87 good, medium and poor site backlog NSR on Crown land in British Columbia. Reductions in the amount of backlog NSR land during recent years can be attributed to reclassification of NSR sites to satisfactorily restocked or not productive as well as to reforestation programs. Since 1996, this has been carried out with funding provided by Forest Renewal BC (FRBC).

The 1984 estimate of 738 000 hectares of backlog NSR on Crown land was the motivation for the 1985–1990 Canada–British Columbia Forest Resource Development Agreement (FRDA). Under FRDA, there was an increase in reforestation activities on backlog NSR areas. Increased site preparation, planting and silviculture surveys decreased the area classified as backlog NSR. Modifications in survey procedures and in silviculture stocking standards also resulted in less land being classed as backlog NSR. As FRDA wound down in 1990, the Ministry of Forests continued to address the backlog areas at a somewhat reduced rate. Between 1990 and 1996, funding began to shift away from planting and toward plantation maintenance activities such as brushing.

In 1994, FRBC was established to plan and implement a program of investment to, in part, “renew the forest economy of B.C.” Part of the FRBC program was to invest in projects that help to reduce the amount of backlog NSR. In August 1996, Forest Renewal BC agreed to fund a ten-year, \$250 million backlog reforestation program. With this commitment, it was estimated that planting of backlog sites would be completed by 2002, or earlier wherever possible. In spite of this commitment, however, planting of backlog NSR sites has dropped off since 1996 to around 9000 ha/year. Current estimates are that backlog NSR is likely to be eliminated in the Cariboo, Kamloops, and Nelson Forest Regions by 2005–2006, and somewhat earlier in the Vancouver Region. In the Prince Rupert and Prince George Forest Regions, backlog NSR is estimated to be eliminated no earlier than 2007.

As the amount of backlog NSR land diminishes, the focus of the program is shifting towards bringing the backlog landbase to free growing. In the current five-year backlog management plan, approximately half the funding has been allocated for treatment of “impeded” stands that are satisfactorily restocked, but not yet free growing. Approximately 2.4 million hectares are currently classified as impeded. Estimates of the completion date for bringing all backlog areas to free growing ranges from 2015 to 2025 in different parts of the province.

## Trends in Net Backlog NSR by Region



Net pre-1982 backlog NSR includes good and medium sites only.  
 Net 1982-87 backlog NSR includes good, medium and poor sites.

## Table of Contents

---

|                                                                                  |     |
|----------------------------------------------------------------------------------|-----|
| Executive Summary .....                                                          | iii |
| Summary of Provincial Backlog NSR Land .....                                     | 1   |
| Backlog NSR Defined .....                                                        | 1   |
| Gross Not Stocked Forest Land .....                                              | 1   |
| Backlog NSR Net-down Description .....                                           | 2   |
| Net Backlog NSR .....                                                            | 2   |
| Factors Responsible for Backlog NSR Reductions .....                             | 2   |
| Summary of Provincial Impeded Land .....                                         | 3   |
| Defining the Impeded Landbase .....                                              | 3   |
| Treatment of the Impeded Landbase .....                                          | 3   |
| Funding Requirements for Bringing Impeded Stands to Free Growing .....           | 3   |
| Sources of Information .....                                                     | 4   |
| NSR in British Columbia – Pre-1982 .....                                         | 5   |
| NSR in British Columbia – 1982–87 .....                                          | 6   |
| Summary Table of British Columbia Forest Land Statistics .....                   | 7   |
| Provincial Summary of the Net Pre-1982 Backlog NSR Land .....                    | 8   |
| Provincial Summary of Impeded Area .....                                         | 9   |
| Changes in Backlog NSR Land Classification .....                                 | 10  |
| Reductions in Backlog NSR as a Result of Planting and Natural Regeneration ..... | 11  |
| Silviculture Activities on Backlog Land .....                                    | 12  |
| Net Backlog NSR by Forest Region .....                                           | 14  |
| Impeded Area by Forest Region .....                                              | 15  |
| Review of the Regional Net Backlog NSR and Impeded Land .....                    | 16  |
| Cariboo .....                                                                    | 16  |
| Kamloops .....                                                                   | 16  |
| Nelson .....                                                                     | 16  |
| Prince George .....                                                              | 16  |
| Prince Rupert .....                                                              | 17  |
| Vancouver .....                                                                  | 17  |
| Summary .....                                                                    | 18  |
| Graphs of Regional Backlog NSR:                                                  |     |
| Cariboo Forest Region .....                                                      | 19  |
| Kamloops Forest Region .....                                                     | 22  |
| Nelson Forest Region .....                                                       | 25  |
| Prince George Forest Region .....                                                | 28  |
| Prince Rupert Forest Region .....                                                | 31  |
| Vancouver Forest Region .....                                                    | 34  |

# Table of Contents

---

## Appendices

- 1 Summary of Regional Proportions ..... 37
- 2 Summary of Net Backlog NSR by Region, TSA and TFL..... 38
- 3 Summary of Net-down Process for Backlog NSR ..... 54
- 4 Summary of Impeded Land by Forest Region and TSA ..... 58
- 5 Glossary ..... 61

# Summary of Provincial Backlog NSR Land

---

This report updates the *1999 Summary of Backlog Not Satisfactorily Restocked Forest Land* published by the Ministry of Forests and uses the same methodology and format as the 1988, 1990, and 1997 reports. While early reports discussed only pre-1982 backlog NSR, reports since 1997 also include statistics on 1982–87 backlog NSR.

## Backlog NSR Defined

---

The term “not satisfactorily restocked” and its acronym NSR are used to describe forest lands that are not growing to their full potential due to insufficient stocking of acceptable tree species. The Ministry of Forests Backlog Management Policy defines backlog NSR as productive forest land that was denuded prior to 1987 and has not been regenerated to the desired stocking standards for the opening.

Specific definitions of NSR have changed over time and have been periodically redefined as survey procedures and management objectives evolved. Today, in British Columbia, the stocking status of any given area is evaluated on the basis of site-specific standards that define preferred and acceptable tree species, as well as target and minimum stocking levels. The criteria and standards used to determine NSR lands have been developed from ongoing research. In order for a tree species to be considered preferred or acceptable for restocking a site, it must be ecologically suitable and economic to harvest and utilize.

Changing market conditions can dramatically affect the acceptability of a tree species for restocking sites, and consequently, forest land status. For example, recent changes in market demands and utilization of aspen have made this species acceptable for restocking specific ecosystems in northeastern British Columbia. Areas previously stocked with aspen and called NSR are now being reclassified as satisfactorily restocked if sufficient numbers of aspen occur on site.

In addition, the Ministry of Forests Backlog Management Policy recognizes that certain areas will never reach the current free growing standards under present economic or biological constraints, and that further investments cannot be justified or may not be appropriate. In the case of NSR areas where further investments cannot be justified, the NSR label is replaced with an accurate inventory label. This new label acknowledges that the NSR area is untreatable for social, economic or environmental reasons or

the stocking is appropriate in view of the need to achieve non-timber resource objectives (e.g., fisheries, wildlife, range or recreation).

Areas that are classed as NSR are considered not to be contributing to the forest’s growing stock, although they may still contribute to other resource values. If left untreated they influence future timber supply and allowable annual cut levels. The estimate of backlog NSR is used to determine the level of silviculture activity required to convert NSR lands to a satisfactorily restocked status.

NSR is a broad term and does not describe the silvicultural regime, operability or treatment priority for a given site. Denuded areas have differing levels of disturbance, site quality, vegetative cover and resource potential. Some of these factors will also change with time. Therefore, NSR estimates are adjusted in order to produce a silviculturally meaningful statistic, one that can be used to plan and implement reforestation activities.

This summary incorporates the use of a “net-down” process to reduce gross NSR estimates to net NSR figures.

## Gross Not Stocked Forest Land

---

Resources Inventory Branch estimates that there are about 2.8 million hectares of not stocked Crown land that originated from harvesting, wildfire, pests and other causes (Table 1). This estimate includes both pre- and post-1987 disturbances. A large portion of the gross backlog not stocked land is classified as non-commercial brush and timber, inaccessible, uneconomic or it is on low or poor site class land. Much of this land requires reclassification surveys.

### Pre-1982 Backlog NSR

About 79 000 hectares are classified as pre-1982 gross good and medium site backlog NSR as defined in this report (Table 1). Only the good and medium site backlog NSR was considered for reforestation funding under the 1985–90 Canada–British Columbia Forest Resource Development Agreement (FRDA).

### 1982–1987 Backlog NSR

The estimated gross backlog NSR area originating from harvesting, wildfire, pests and other causes, occurring between

# Summary of Provincial Backlog NSR Land

---

January 1, 1982 and October 1, 1987, is 60 708 hectares (see Appendix 3, page 56). Of this amount, the gross backlog on good, medium and poor sites is 59 881 hectares (Table 1). Under the Industry and Ministry Outstanding program, reforestation funding priority was given to all harvested areas, and the good, medium and poor sites that were destroyed by wildfire, pests or other natural disturbances.

## Backlog NSR Net-down Description

---

The estimate of net backlog NSR on Crown lands was determined through the application of a net-down procedure, which made deductions for areas that were considered likely to be naturally regenerated or areas that had low economic operability. Appendix 3 details the net-down deductions by forest region.

The net backlog NSR land in this report excludes NSR areas that were:

- remote and lacking access such as wildfire burns in the northern interior;
- harvested by selection, shelterwood and seed tree systems and designed to regenerate naturally;
- older regenerated stands with sufficient numbers of well-spaced crop trees per hectare;
  - stands having an average age of less than 12 years with stocking levels greater than 700 well-spaced stems per hectare;
  - stands having an average age of more than 12 years with stocking levels greater than 500 well-spaced stems per hectare;
- NSR areas less than five hectares in size;
- pre-1982 – in poor and low site productivity classes;
- 1982–87 – in low productivity class.

## Net Backlog NSR

---

This summary indicates that 55 421 hectares of pre-1982 backlog NSR are on good and medium sites and are potential candidates for silviculture activities.

Likewise, Table 1 shows that 40 548 hectares of 1982–87 backlog NSR are on good, medium and poor sites and available for silviculture treatment.

The 1984 *Forest and Range Resource Analysis* estimated that there were 738 000 hectares of good and medium site net backlog NSR land in the province (Table 2). The 1988, 1990, 1997, and 1999 Backlog NSR Summaries reported that this area had been reduced by 25%, 41%, 87%, and 91%, respectively. This report shows that, over the last 17 years (since 1984), there has been a 682 578 hectare (92%) reduction in good and medium site pre-1982 backlog NSR land.

## Factors Responsible for Backlog NSR Reductions

---

Reductions in backlog NSR land can be attributed to reclassification of NSR sites to satisfactorily restocked (SR) or not productive (NP) and to reforestation programs on backlog sites. Much of the land that has been reclassified to SR, has regenerated naturally (see figures on page 10 and 11).

Large programs to survey, plant and treat backlog NSR sites were funded by FRDA from 1985–90, and by the Ministry of Forests from 1990–96. During 1990–96, funding began to shift away from planting, and towards activities (e.g., brushing) aimed at maintaining existing plantations (refer to figures on pages 12 and 13). In 1996, FRBC became responsible for funding activities aimed at reducing backlog NSR, and committed \$250 million over a ten-year period. At this time, it was projected that backlog NSR would be eliminated by the year 2002. Under the new funding arrangement, surveying and brushing programs have continued at levels similar to previous years, but planting programs have been reduced considerably. As a result, the rate at which backlog NSR is being reduced has dropped. It is now estimated that backlog NSR in B.C. will be eliminated no earlier than 2007.



# Summary of Provincial Impeded Land

---

This edition of the backlog summary report is the first to include a summary of backlog land that is satisfactorily restocked (SR), but not yet free growing or declared free growing (impeded). The relative prominence of free growing information in these annual summary reports will increase as NSR land is gradually phased out.

## Defining the Impeded Landbase

---

After backlog areas are satisfactorily restocked, they must be managed to the stage of healthy, free growing stands. Those backlog areas that, in the District Manager's opinion, are SR with healthy, well-spaced trees of a commercially acceptable species, but are not free growing or not yet declared free growing, are classified as "impeded." For this report, the figure of 2 370 389 hectares impeded land was arrived at by deducting NSR and inoperable area from the gross not free growing pre-1987 area of 2 597 174 hectares. We expect this estimate will be substantially reduced in the next report, however, as a result of more complete survey information. Many areas may actually have reached free growing, but they have either not been surveyed or the survey results have not yet been entered into the Ministry of Forests Integrated Silviculture Information System (ISIS) database.

## Treatment of the Impeded Landbase

---

After the impeded landbase is accurately defined, it will be necessary to prioritize areas throughout the province for silvicultural treatments. Brushing is the most common treatment that will be applied to impeded sites to enable them to become free growing, but some spacing treatments will also be carried out. Forest policy and funding arrangements regarding the application of silvicultural treatments varied considerably for sites harvested prior to 1987. Consequently, current expectations about how responsive sites will be to further brushing treatments varies according to the harvest date. The level of response is also expected to vary according to site quality. Tools for prioritizing sites for treatment according to their expected responsiveness are currently being developed.

In this report, impeded area is categorized according to disturbance date.

### Pre-1970 without FRDA investment

These areas were disturbed prior to 1970, but did not receive treatment as a result of FRDA funding. It is questionable whether these areas should continue to be tracked, as most are far too old to

consider for reforestation treatments. Many of these sites were not treated under the FRDA agreement because they are of poor or low site quality or were already too old. There are currently 384 123 hectares of impeded land in B.C. that were disturbed prior to 1970, and which did not receive treatment as a result of FRDA funding. This is 16% of the total impeded landbase.

### Pre-1970 with FRDA investment

These areas were disturbed prior to 1970, and received some treatment as a result of FRDA funding. Trees are therefore expected to be in better condition, and more responsive to further vegetation management treatments. Sites that received FRDA funding were of good or medium site quality, and so the projected return is likely to make brushing investment worthwhile. At present, there are 204 502 hectares of impeded land in this category, which is 9% of the total impeded landbase.

### 1970–1982

Areas harvested during this period received silvicultural treatments in a somewhat arbitrary fashion because reforestation standards were less strictly adhered to than currently occurs. These stands are less likely to be as responsive to brushing than those that were harvested from 1982–1987. There are currently 946 236 hectares of impeded land in B.C. that were disturbed between 1970 and 1982. This is 40% of the total impeded landbase.

### 1982–1987

Areas harvested during this period were previously classified as "Ministry or Industry Outstanding" and generally received a high level of compliance to regeneration standards. These stands are therefore likely to be in better condition than those harvested prior to 1982, and are expected to be more responsive to brushing treatments. There are currently 835 528 hectares of impeded land in B.C. that were disturbed between 1982 and 1987. This is 35% of the total impeded landbase.

## Funding Requirements for Bringing Impeded Stands to Free Growing

---

Bringing impeded stands to free growing will require an ongoing, long-term funding commitment. Under the current five-year backlog plan, approximately half the funding requirements (more than \$110 million) are directed towards that end. Until the impeded land base is more accurately defined, however, it is difficult to determine the necessary long-term financial commitment required for this program.

## Sources of Information

---

This report details the backlog NSR and impeded land by forest region, timber supply area and tree farm licence (Appendix 2).

The data used to produce the charts and summary tables that follow were obtained from several sources:

1. Estimates available at the time of signing the 1985–1990 Canada–British Columbia Forest Resource Development Agreement indicated that there were 644 522 hectares of good and medium site backlog NSR in the province. In 1984,<sup>1</sup> the Ministry produced updated information indicating that the net backlog NSR was 738 000 hectares (Table 2). This estimate was confirmed and published in *Renewal* in 1986.<sup>2</sup>
2. Data on the total forest land and total gross NSR (Table 1) comes from the 1998/99 *Ministry of Forests Annual Report*. This information was submitted by the Ministry of Forests Resources Inventory Branch.
3. Data for the backlog NSR on tree farm licences (TFL) were derived from hand compiled TFL reports. The status of the impeded landbase is currently not available on TFLs.
4. Data for the gross good and medium site backlog NSR on timber supply areas were derived from ISIS. Data for the net NSR were derived from the gross area totals after deductions were made for areas considered to be inoperable, selectively logged (and likely to regenerate naturally), less than 12 years old with more than 700 well-spaced stems per hectare, or areas that were more than 12 years old with more than 500 well-spaced stems per hectare, and areas less than five hectares in size.
5. ISIS was used to derive the net backlog NSR and impeded area on TSAs for all regions. The intent of using ISIS for deriving these numbers is to:
  - a) provide summaries on a consistent and auditable basis of the net backlog NSR and impeded area identified in this report;
  - b) record ongoing reforestation activities and any changes in forest land status that result from these activities; and
  - c) monitor the change in forest land stocking status through silviculture activities funded under special funding source (e.g., FRBC).

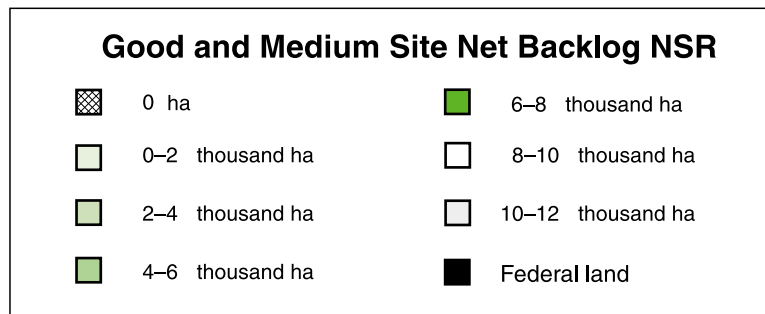
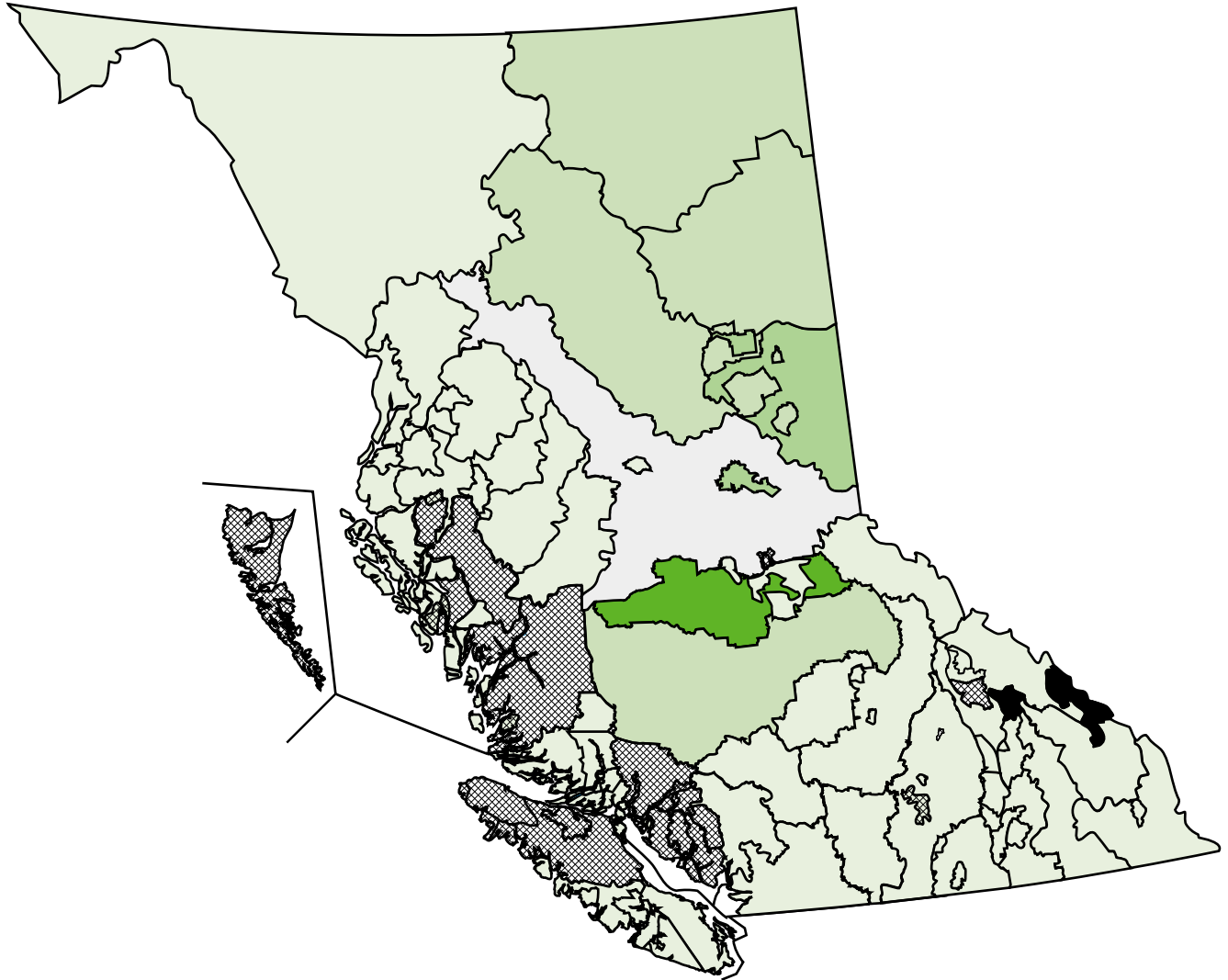
---

<sup>1</sup> Forest and Range Resource Analysis, 1984. Ministry of Forests.

<sup>2</sup> *Renewal*, 1986. Vol. 1, No. 1. Fall 1986.

# NSR in British Columbia – Pre-1982

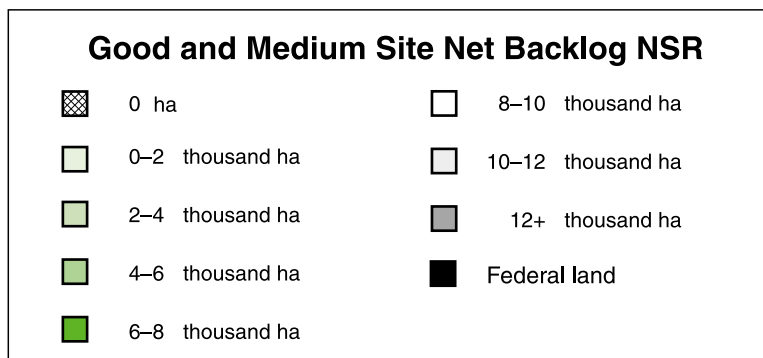
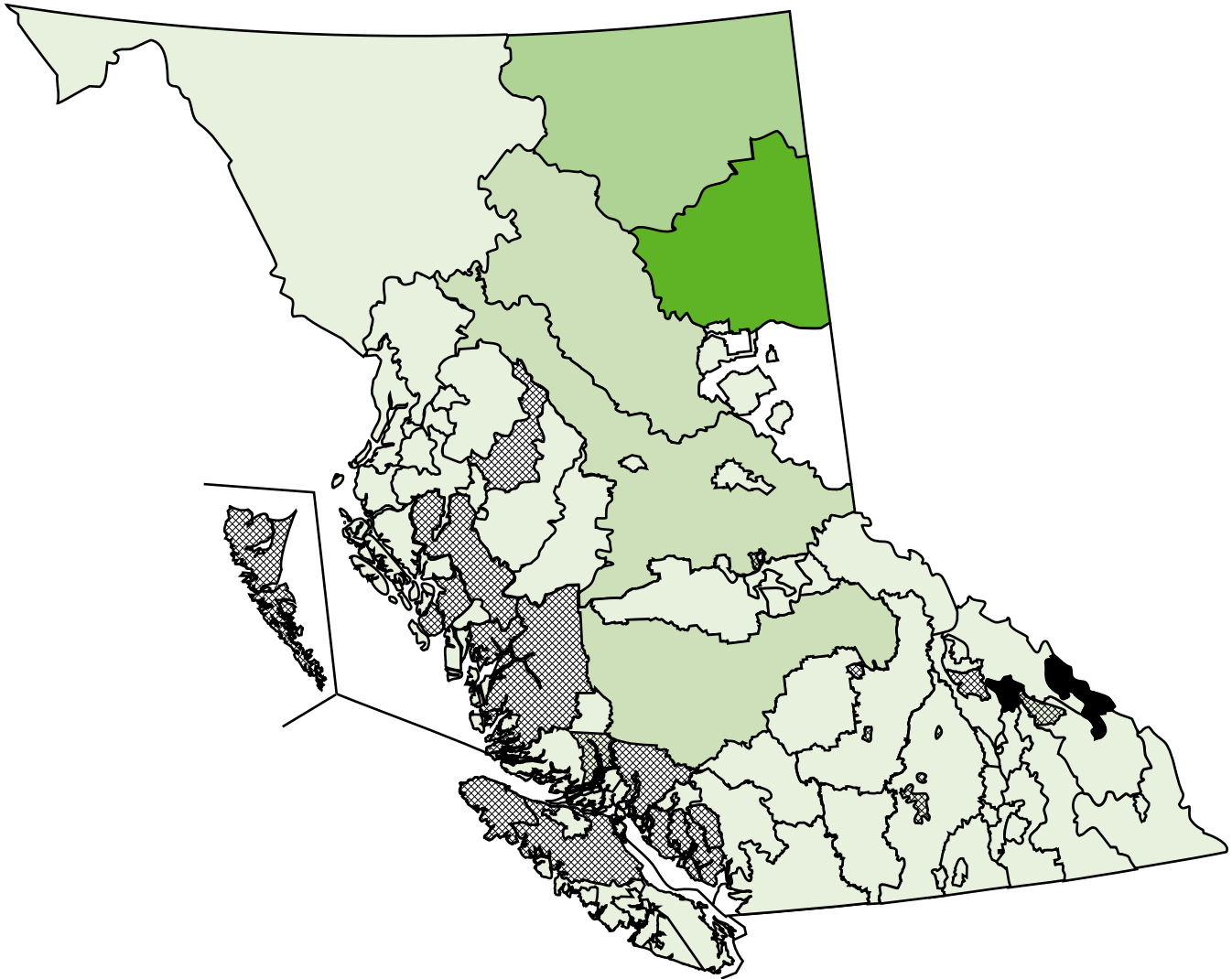
## Location of the Good and Medium Site Net Pre-1982 Backlog NSR Land<sup>a</sup> by TSA and TFL



<sup>a</sup> NSR – not satisfactorily restocked

# NSR in British Columbia – 1982–87

## Location of the Good, Medium and Poor Site Net 1982–87 Backlog NSR Land<sup>a</sup> by TSA and TFL



<sup>a</sup> NSR – not satisfactorily restocked

**TABLE 1. Summary table of British Columbia productive forest land statistics**

| Region                  | Inventory database <sup>a</sup> |                                            | Gross backlog NSR <sup>b,c</sup> |                            | Net backlog NSR <sup>b,d</sup> |                            |
|-------------------------|---------------------------------|--------------------------------------------|----------------------------------|----------------------------|--------------------------------|----------------------------|
|                         | Total productive forest land    | Total not stocked forest land <sup>e</sup> | Pre-1982 (good, med.)            | 1982-87 (good, med., poor) | Pre-1982 (good, med.)          | 1982-87 (good, med., poor) |
| (area in hectares)      |                                 |                                            |                                  |                            |                                |                            |
| Cariboo                 | 5 606 000                       | 288 000                                    | 6 001                            | 5 672                      | 3 660                          | 4545                       |
| Kamloops                | 4 555 000                       | 202 000                                    | 3 183                            | 3 598                      | 1 758                          | 2 175                      |
| Nelson                  | 3 383 000                       | 175 000                                    | 8 402                            | 6 983                      | 3 753                          | 1 988                      |
| Prince George           | 17 792 000                      | 1 526 000                                  | 44 934                           | 34 882                     | 39 233                         | 28 057                     |
| Prince Rupert           | 9 309 000                       | 468 000                                    | 14 630                           | 7 979                      | 5 413                          | 3 156                      |
| Vancouver               | 6 031 000                       | 166 000                                    | 1 810                            | 767                        | 1 605                          | 628                        |
| <b>Provincial total</b> | <b>46 676 000</b>               | <b>2 826 000</b>                           | <b>78 960</b>                    | <b>59 881</b>              | <b>55 422</b>                  | <b>40 549</b>              |

<sup>a</sup> Source: Ministry of Forests 1998/99 Annual Report.

<sup>b</sup> Sources: ISIS and hand compiled TFL submissions.

<sup>c</sup> Areas denuded due to harvesting, wildfire and other causes (including pest damage, flood and blowdown from wind).

<sup>d</sup> Net area after deductions for inoperable, inaccessible and low economic priority areas.

<sup>e</sup> Total productive and available forest land that is not stocked; it includes both pre- and post-1987 disturbances.

**TABLE 2. Provincial summary of the net backlog<sup>a</sup> of not satisfactorily restocked land for good and medium pre-1982 sites, and for good, medium and poor 1982–87 sites**

| Region                   | Pre-1982 summaries (good and medium sites) |                   |                   |                   |                   |                   | 1982–87 summaries (good, medium and poor sites) |                     |                   |                   |                                           |
|--------------------------|--------------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------------------------------------|---------------------|-------------------|-------------------|-------------------------------------------|
|                          | 1984 Resource analysis <sup>b</sup>        | 1988 <sup>c</sup> | 1990 <sup>d</sup> | 1997 <sup>d</sup> | 1999 <sup>d</sup> | 2000 <sup>d</sup> | Difference in 1984 and 2000 summaries (%)       | 1997 <sup>d,e</sup> | 1999 <sup>d</sup> | 2000 <sup>d</sup> | Difference in 1997 and 2000 summaries (%) |
| (area in hectares)       |                                            |                   |                   |                   |                   |                   |                                                 |                     |                   |                   |                                           |
| Cariboo                  | 43 400                                     | 30 747            | 26 346            | 11 974            | 8 560             | 3 660             | -92                                             | 12 223              | 6 651             | 4 545             | -63                                       |
| Kamloops                 | 51 400                                     | 74 241            | 57 869            | 6 261             | 2 148             | 1 758             | -97                                             | 5 040               | 2 542             | 2 175             | -57                                       |
| ∞ Nelson                 | 93 700                                     | 60 787            | 44 273            | 5 906             | 4 805             | 3 753             | -96                                             | 5 047               | 2 783             | 1 988             | -61                                       |
| Prince George            | 488 700                                    | 271 747           | 224 205           | 57 215            | 46 341            | 39 233            | -92                                             | 43 623              | 24 188            | 28 057            | -36                                       |
| Prince Rupert            | 40 500                                     | 106 396           | 78 130            | 10 720            | 5 309             | 5 413             | -87                                             | 9 681               | 4 025             | 3 156             | -67                                       |
| Vancouver                | 20 300                                     | 9 227             | 5 868             | 1 742             | 1 694             | 1 605             | -92                                             | 3 022               | 1 015             | 628               | -79                                       |
| <b>Provincial totals</b> | <b>738 000</b>                             | <b>553 145</b>    | <b>436 691</b>    | <b>93 818</b>     | <b>68 857</b>     | <b>55 422</b>     | <b>-92</b>                                      | <b>78 636</b>       | <b>41 204</b>     | <b>40 549</b>     | <b>-48</b>                                |

<sup>a</sup> Net NSR after deductions as per Appendix 3.

<sup>b</sup> The 1984 *Range and Resource Analysis* indicated that there remained a provincial total of 272 975 hectares of good and medium site NSR (applies to pre-1982 NSR only).

<sup>c</sup> 1988 *Summary of Backlog Not Satisfactorily Restocked Forest Land* (applies to pre-1982 NSR only).

<sup>d</sup> Summary for Crown land only and includes timber supply areas and tree farm licences. Data derived from hand compiled TFL summaries and ISIS.

<sup>e</sup> These values represent 1982–87 backlog NSR remaining in 1995/96. The definition of backlog NSR was changed in the Forest Practices Code (1995) to include areas denuded from 1982–87.

## Provincial Summary of Impeded Area

**TABLE 3. Provincial summary of impeded<sup>a</sup> area for pre-1970 (not FRDA-funded), pre-1970 (FRDA-funded), 1970–1982, and 1982–1987 sites (including good, medium, poor, and low sites)**

| Region                  | Gross not free growing pre-1987 <sup>b</sup> | Impeded area (ha) <sup>c</sup> |                |                        |                            | Total            |
|-------------------------|----------------------------------------------|--------------------------------|----------------|------------------------|----------------------------|------------------|
|                         |                                              | 1982–1987                      | 1970–1982      | Pre-1970 (FRDA funded) | Pre-1970 (not FRDA funded) |                  |
| Cariboo                 | 357 875                                      | 152 632                        | 133 179        | 19 583                 | 36 596                     | 341 990          |
| Kamloops                | 354 016                                      | 102 322                        | 165 864        | 21 709                 | 42 241                     | 332 136          |
| Nelson                  | 348 140                                      | 120 769                        | 146 013        | 26 362                 | 31 551                     | 324 695          |
| Prince George           | 1 111 041                                    | 293 650                        | 390 748        | 80 507                 | 231 341                    | 996 246          |
| Prince Rupert           | 295 554                                      | 116 289                        | 72 543         | 23 055                 | 33 573                     | 245 460          |
| Vancouver               | 130 548                                      | 49 866                         | 37 889         | 33 286                 | 8821                       | 129 862          |
| <b>Provincial total</b> | <b>2 597 174</b>                             | <b>835 528</b>                 | <b>946 236</b> | <b>204 502</b>         | <b>384 123</b>             | <b>2 370 389</b> |

<sup>a</sup> Impeded land is satisfactorily restocked, operable area, but not free growing or “not declared free growing.”\*

<sup>b</sup> Gross not free growing pre-1987 is the total area before deductions of NSR and net downs.

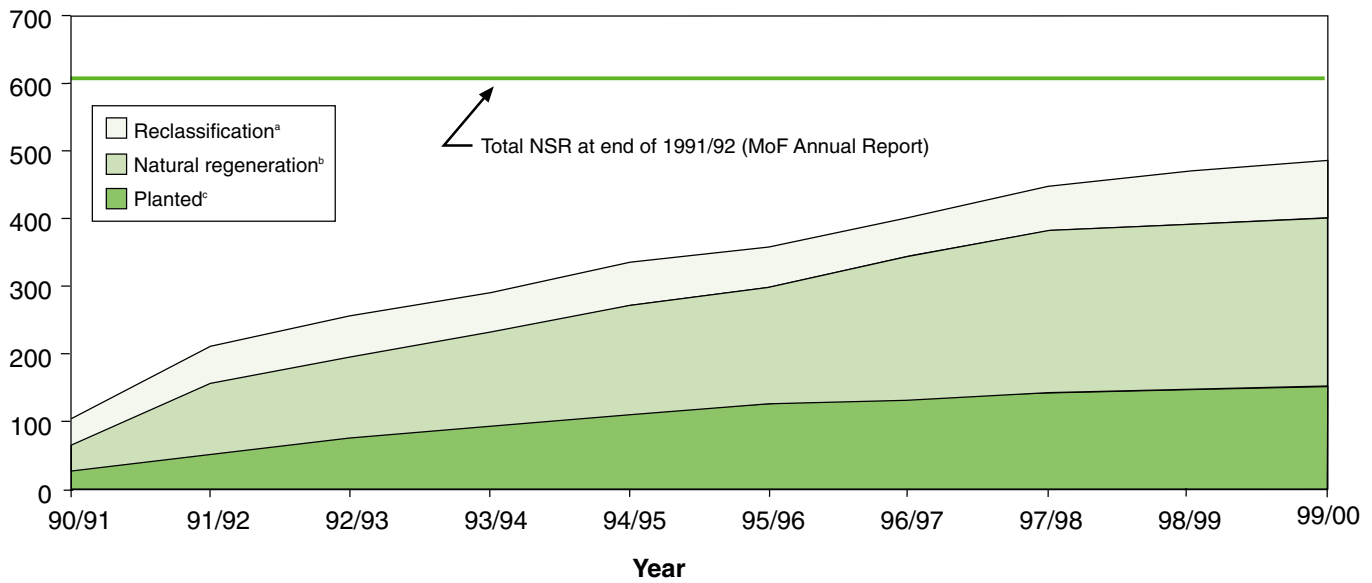
<sup>c</sup> Based on information extracted from ISIS.

\* Use of the term “not declared free growing” is based on the assumption that a portion of the older backlog areas are in a free growing condition but have not yet been coded as such in the ISIS database.

# Changes in Backlog NSR Land Classification

## Changes in Pre-82 NSR All Sites

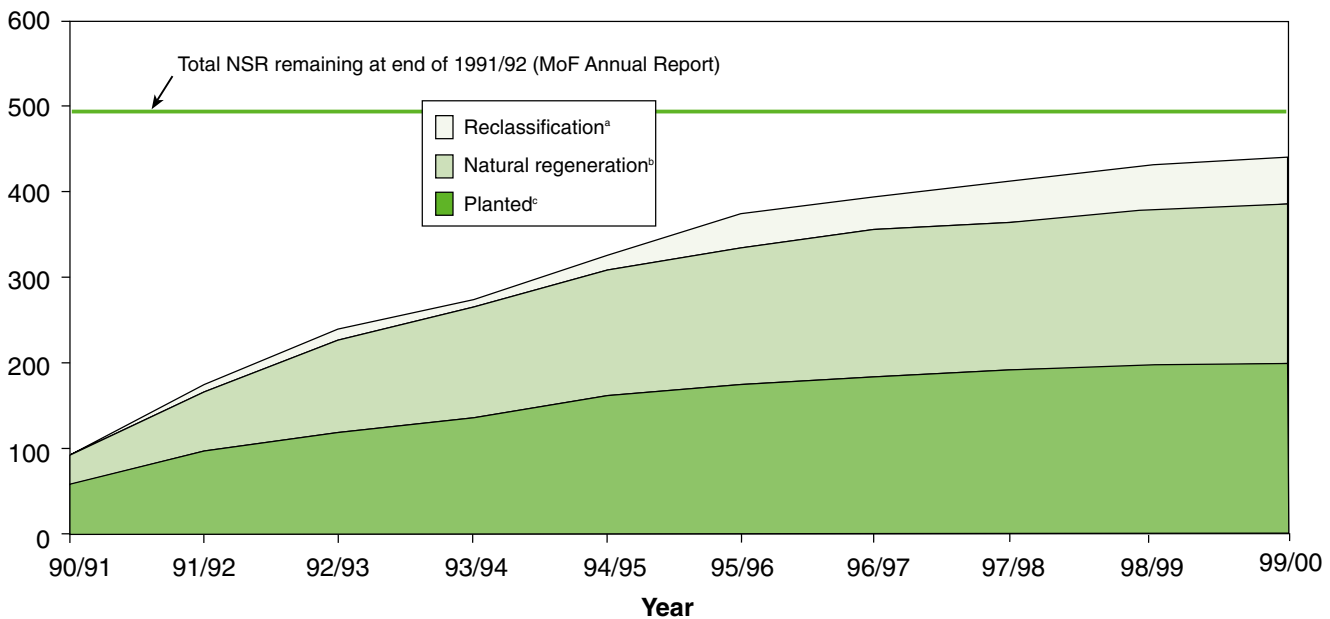
Hectares (thousands)



- a Equals NSR area reclassified as NP minus openings caused by fire and pests to free growing areas
- b Equals natural regeneration minus natural regeneration failure
- c Equals planting minus plantation failures

## Changes in 1982–87 NSR All Sites

Hectares (thousands)

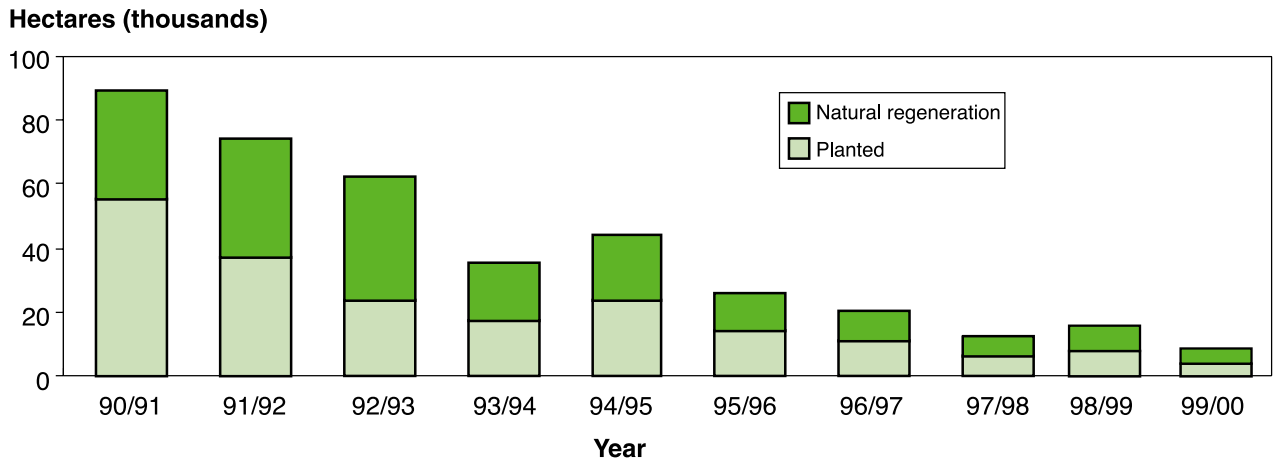


- a Equals NSR area reclassified as NP minus openings caused by fire and pests to free growing areas
- b Equals natural regeneration minus natural regeneration failure
- c Equals planting minus plantation failures

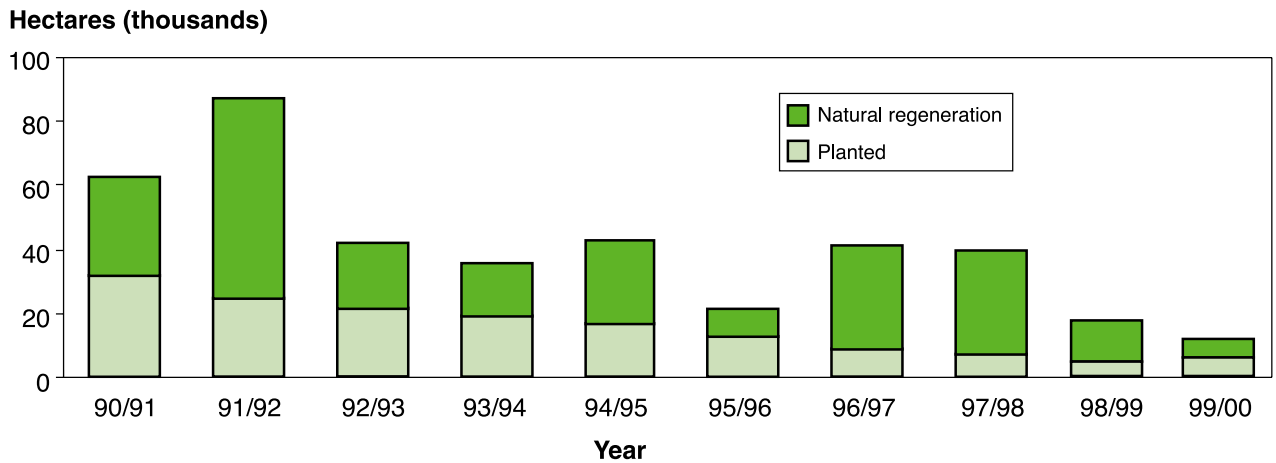


# Reductions in Backlog NSR as a Result of Planting and Natural Regeneration

**Reductions in 1982–87 NSR  
as a Result of Planting and Natural Regeneration  
All Sites**



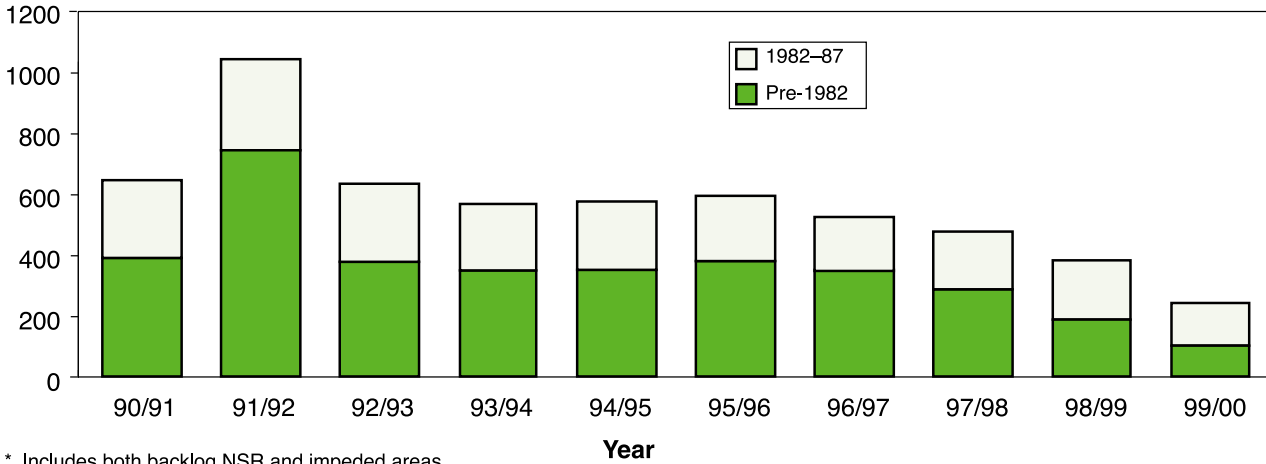
**Reductions in Pre-1982 NSR  
as a Result of Planting and Natural Regeneration  
All Sites**



# Silviculture Activities on Backlog Land

## Silviculture Surveys on Backlog Areas \*

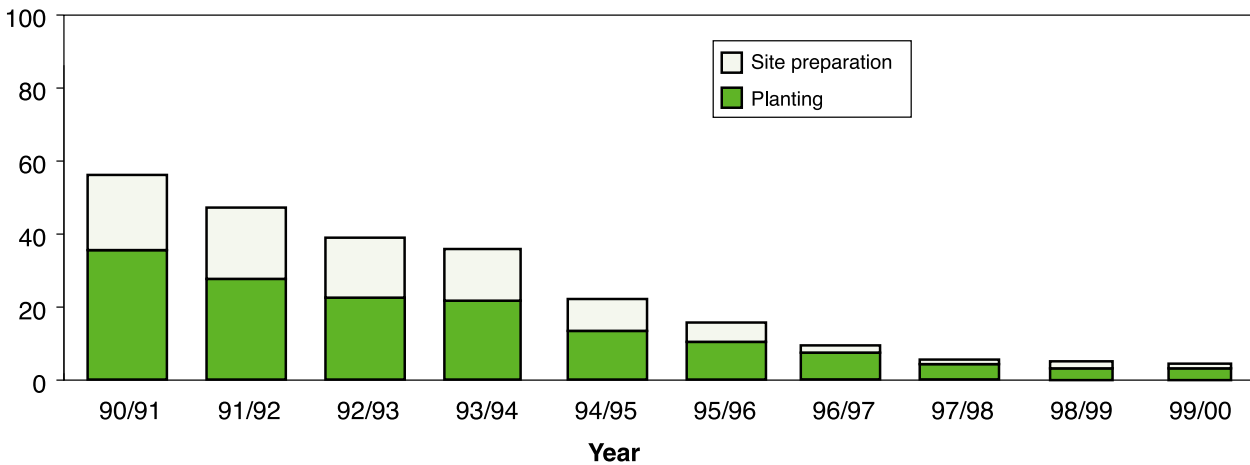
Hectares (thousands)



\* Includes both backlog NSR and impeded areas.

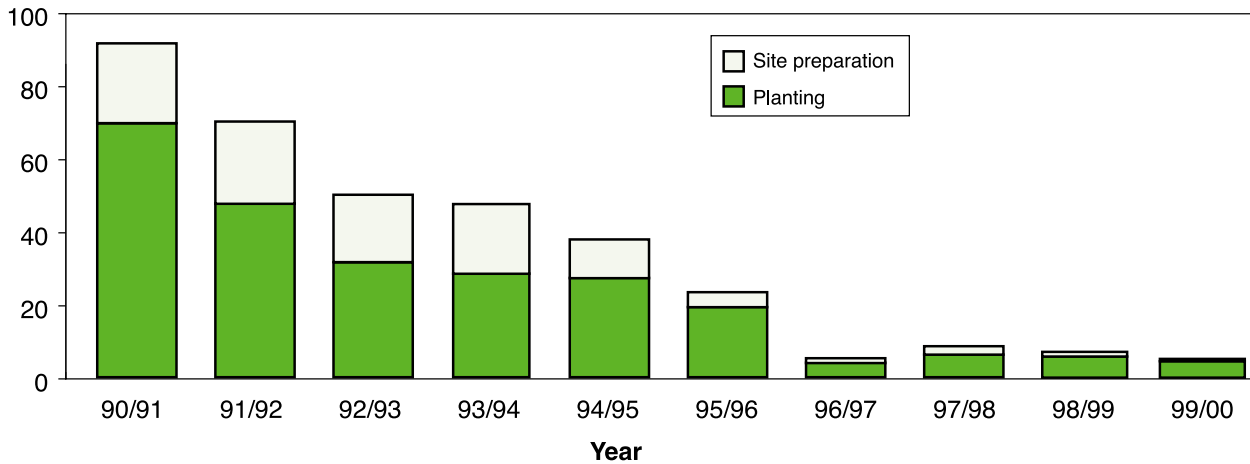
## Planting and Site Preparation on Pre-1982 Backlog Areas

Hectares (thousands)



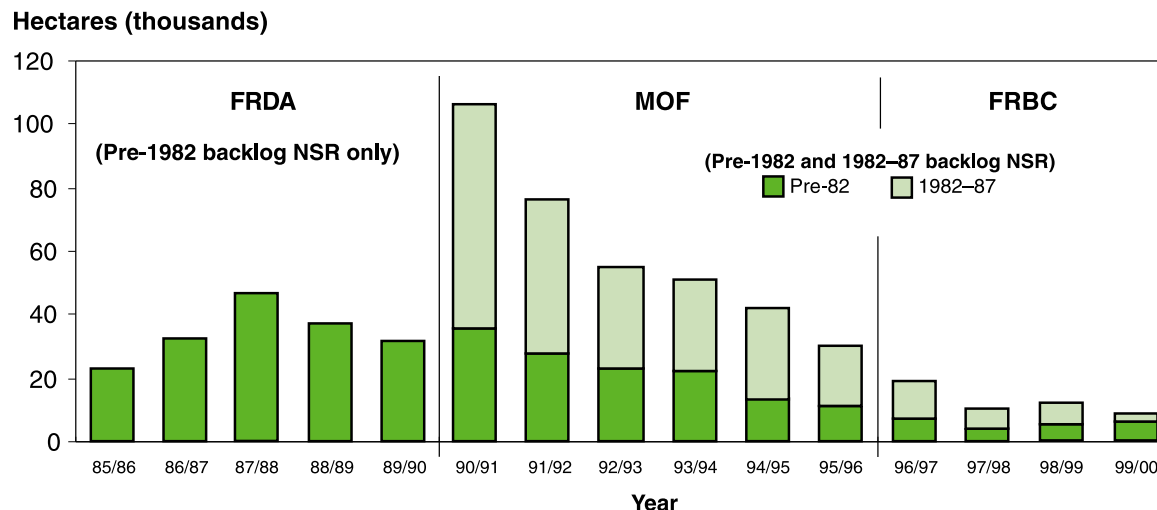
## Planting and Site Preparation on 1982-87 Backlog Areas

Hectares (thousands)

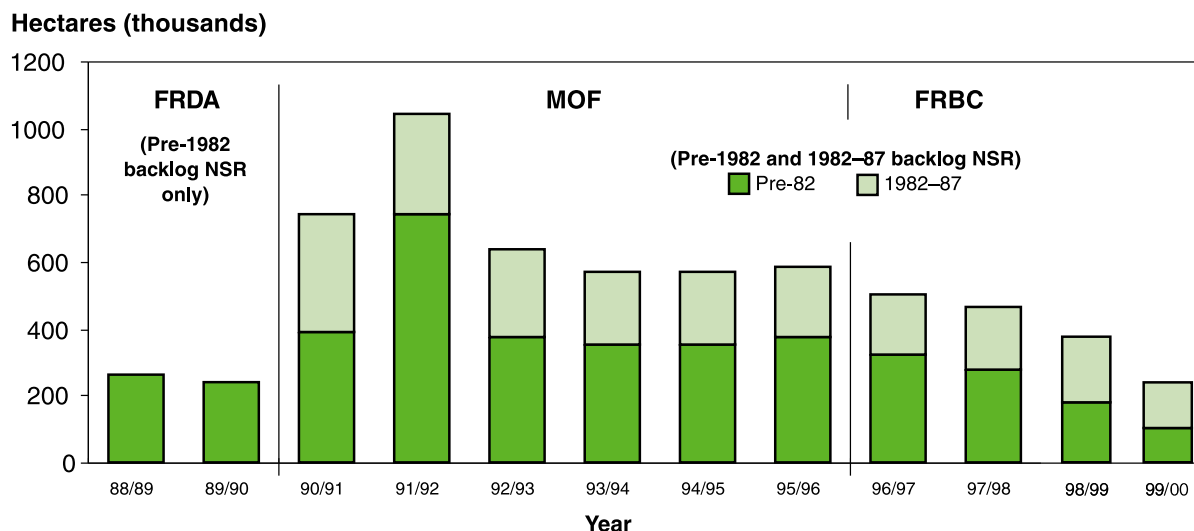


# Silviculture Activities on Backlog Land

## Backlog Area Planted Under Various Funding Arrangements

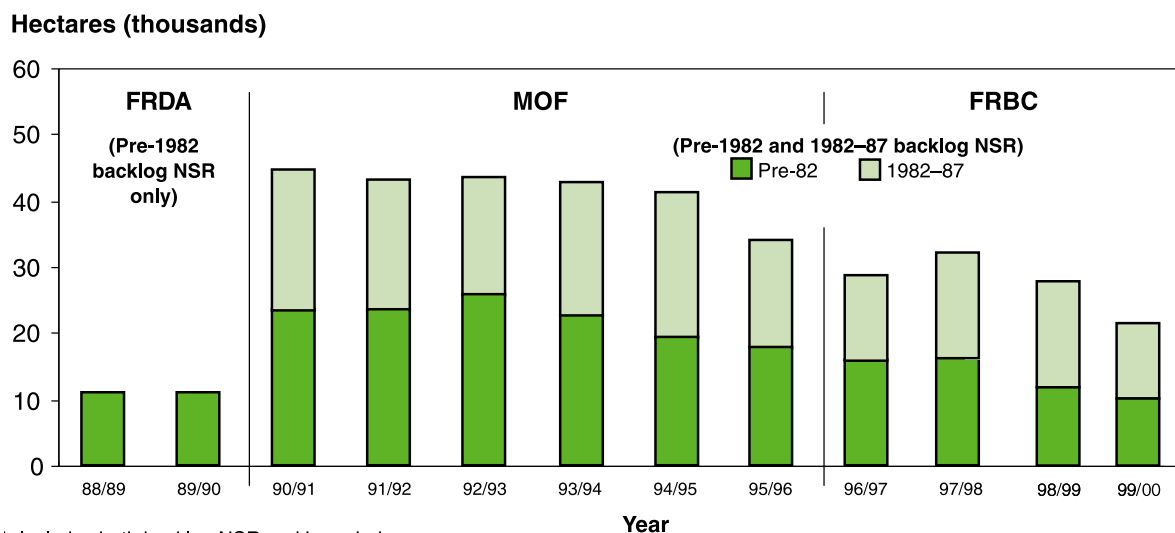


## Backlog Area\* Surveyed Under Various Funding Arrangements



\* Includes both backlog NSR and impeded areas.

## Backlog Area\* Brushed Under Various Funding Arrangements

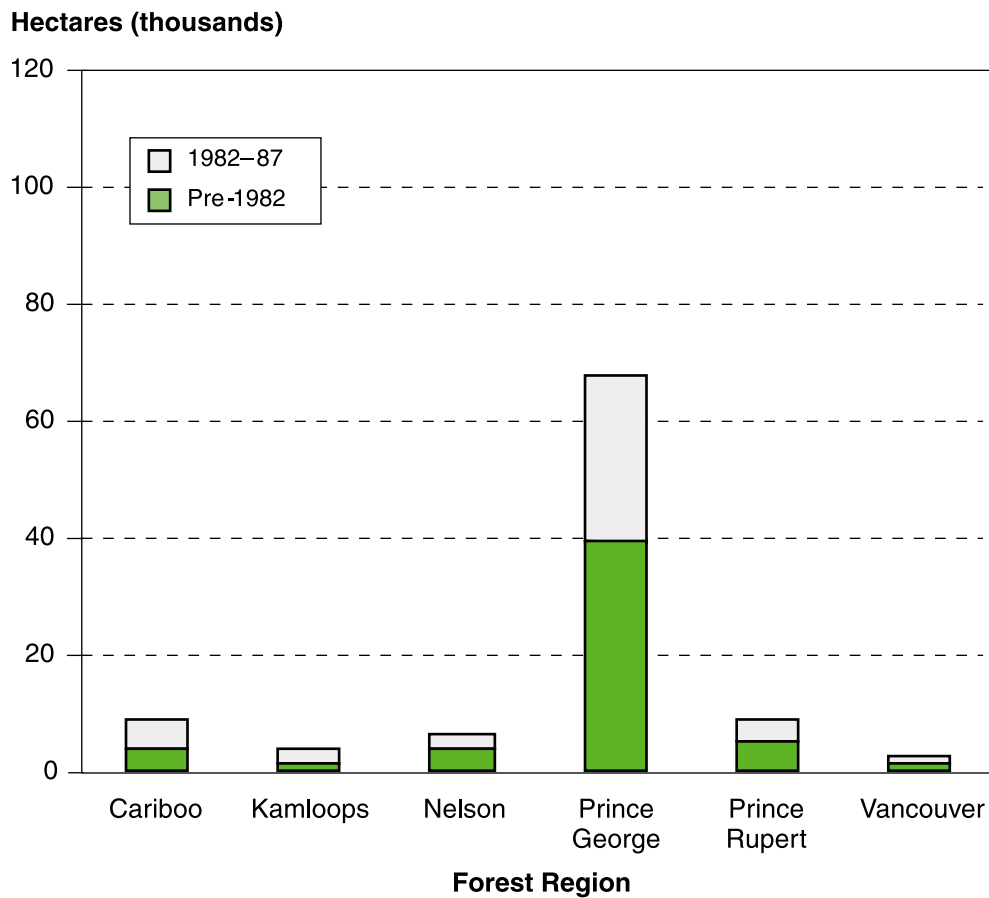


\* Includes both backlog NSR and impeded areas.

# Net Backlog NSR by Forest Region



## Net Backlog<sup>a</sup> Not Satisfactorily Restocked Land<sup>b</sup> by Forest Region



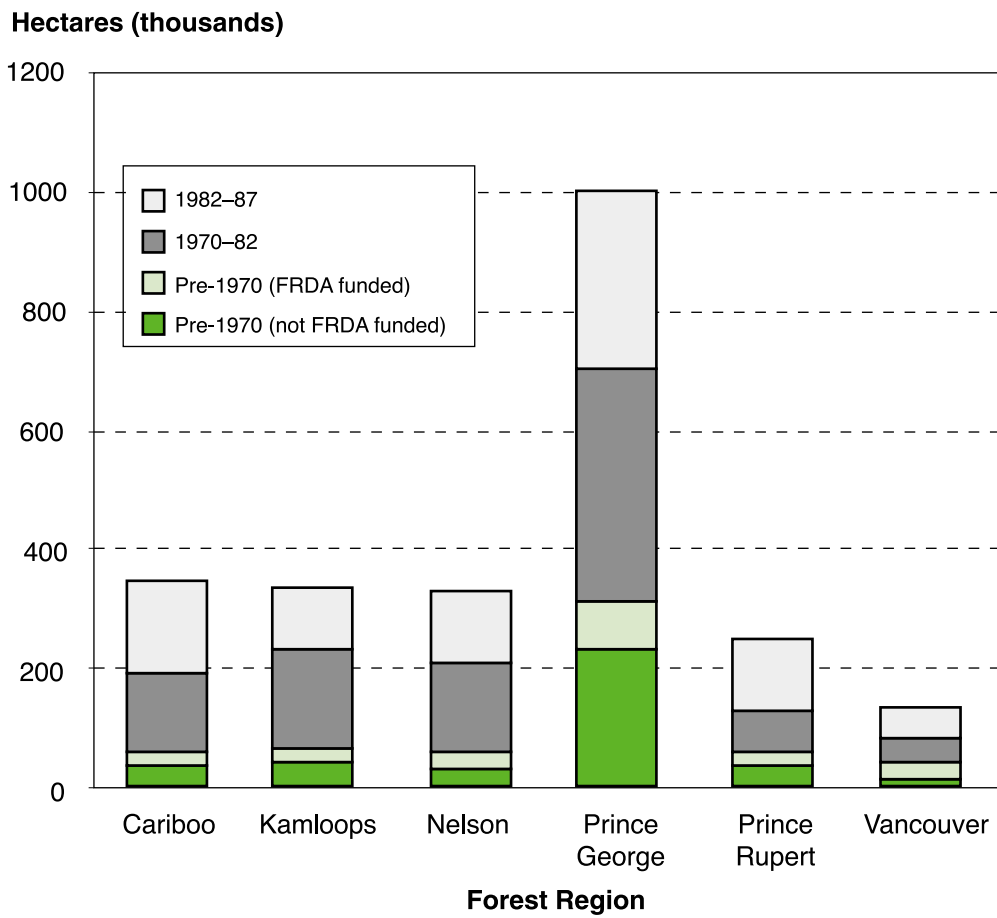
<sup>a</sup> Backlog – areas denuded prior to 1982 (pre-1982), good and medium sites only, and from January 1, 1982 to October 1, 1987 (1982-87) good, medium and poor sites only

<sup>b</sup> NSR – Not satisfactorily restocked  
 Summary for Crown land only and includes timber supply areas and tree farm licences  
 Data derived from the Ministry of Forests' hand compiled TFL summaries and ISIS

# Impeded Area by Forest Region



**Impeded Area by Forest Region**



# Review of the Regional Net Backlog NSR and Impeded Land

---

## Cariboo

---

The Ministry of Forests 1984 *Forest and Range Resource Analysis* estimated that the Cariboo Forest Region had 43 400 hectares of good and medium site land classified as backlog NSR.

The 2001 summary estimates 3660 hectares of pre-1982 good and medium site backlog NSR remain in the Cariboo Forest Region. This is a decrease of 39 740 hectares or 92% from the 1984 figure.

Backlog NSR on good, medium and poor sites from disturbances that occurred between January 1, 1982 and October 1, 1987 amounts to 4545 hectares in the Cariboo Forest Region. This is a reduction of 63% since 1997.

Planting and reclassification of land following silviculture surveys both contributed to the decrease in backlog NSR. Between 1996 and 2000, approximately 229 000 hectares were surveyed in the Cariboo Forest Region.

As of 2001, there are 341 990 hectares of impeded area that have either not reached or been declared free growing.

## Kamloops

---

In 1984, the Kamloops Forest Region had an estimated 51 400 hectares of good and medium site classified as backlog NSR. The number of silviculture surveys on Crown land was increased through funding under FRDA, identifying additional areas that were NSR. Consequently, the 1988 estimate increased to 74 200 hectares.

The latest estimate (2001) of pre-1982 backlog NSR is 1758 hectares, a decrease of 97% from the 1984 estimate.

Net good, medium and poor site 1982–87 backlog NSR is currently 2175 hectares, which is a reduction of 57% since 1997. Reductions in backlog NSR in the Kamloops Forest Region can be attributed to reforestation activities such as planting and silviculture surveys. From 1996 to 2000, approximately 296 000 hectares have been surveyed.

As of 2001, there are 332 136 hectares of impeded area that have either not reached or been declared free growing.

## Nelson

---

Planting and reclassification of stocking status following surveys funded by FRDA and recently by FRBC, has reduced pre-1982 backlog NSR from 93 700 hectares in 1984, to 3753 hectares in 2001. Net good, medium and poor site backlog from disturbances originating between 1982 and 1987 currently amounts to 1988 hectares. It has been reduced by 61% since 1997.

Some reduction in backlog NSR in the Nelson Forest Region has occurred as a result of reclassification. From 1996 to 2000, silviculture surveys have taken place on approximately 160 000 hectares in the Nelson Region.

As of 2001, there are 324 695 hectares of impeded area that have not reached or been declared free growing.

## Prince George

---

The 1984 *Forest and Range Resource Analysis* estimated that the Prince George Forest Region had 488 700 hectares of good and medium site NSR that had originated prior to 1982. By 1988, the estimate was reduced to 271 700 hectares, and by 1990, to 224 200 hectares. The 2001 estimate of pre-1982 NSR is 39 233 hectares, which is a reduction of 92% since 1984. The reductions in NSR can be attributed to a substantially increased reforestation program as well as a large survey program which determined that many areas were satisfactorily restocked through natural regeneration. Table 1 also indicates that the Prince George Forest Region has 28 057 hectares of 1982–87 good, medium and poor site backlog NSR. Backlog area reported for the Prince George Region has increased since the 1999 report. This increase is attributable to a reporting problem identified with the query used for the 1999 report. Areas originating from natural disturbances and lacking a license number reference were not all being tallied. This resulted in an underestimate of the backlog NSR and particularly impacted the Prince George Region because of the large portion of backlog areas of natural disturbance origin.

From 1996 to 2000, approximately 303 000 hectares of land received silviculture surveys in the Prince George Forest Region. Recent changes in market demands for aspen are also having a significant effect on the estimate of NSR in the region. Until the late 1980s, aspen was not considered an acceptable tree species for reforesting certain ecosystems. Surveys are being

## Review of the Regional Net Backlog NSR and Impeded Land

---

carried out on areas stocked with aspen and conifers that were previously classified as NSR. Many of these ecosystems are now being reclassified as satisfactorily restocked with aspen-conifer mixtures.

Much of the gross NSR in the Prince George Forest Region originated through wildfires in the remote Mackenzie, Fort Nelson, Fort St. John and Dawson Creek Timber Supply Areas. Many of these areas are considered inoperable or inaccessible and have been removed from the net backlog NSR total. However, even with these deductions, a significant portion of the net backlog NSR remaining in the Prince George Forest Region originated through wildfires and other causes, and not through harvesting.

Many of the remaining net backlog areas are not immediately treatable due to constraints imposed by other forest resource users. In many areas, reforestation must be delayed to maintain wildlife habitat on logged or burned openings. Also, it may not be appropriate to treat large areas of backlog at a single time because significant changes in vegetation type would occur. Treatments may be delayed to allow “green-up” of adjacent areas. Natural regeneration continues on many areas and surveying provides current information on the status of NSR sites.

As of 2001, there are 996 246 hectares of impeded area that have not reached or been declared free growing.

### Prince Rupert

---

The Ministry of Forests 1984 *Forest and Range Resource Analysis* estimated that the Prince Rupert Forest Region had 40 500 hectares of good and medium site land classified as backlog NSR land. The 1985 FRDA provided funding for increased reforestation activities on these NSR areas. Funding continues today under FRBC.

In 1988, the estimate of pre-1982 good and medium site backlog NSR rose to 106 400 hectares as a result of increased silviculture surveys. Much of the increase in NSR was due to the reclassification of portions of the Cassiar TSA from poor site to good and medium site.

The 1990 summary indicated that 78 100 hectares of pre-1982 good and medium site backlog NSR remained. At present, it is estimated that 5413 hectares of pre-1982 good and medium site NSR remain. This is an 87% reduction from the original 1984 estimate, and a 95% reduction from the 1988 estimate. Much of this net backlog NSR originated from wildfires and other natural causes.

This report indicates that there are 3156 hectares of 1982-87 good, medium and poor site backlog NSR remaining in the Prince Rupert Forest Region, which is a 67% decrease since 1997.

From 1996 to 2000, silviculture surveys took place on approximately 171 000 hectares of land in the Prince Rupert Forest Region.

As of 2001, there are 245 460 hectares of impeded area that have not reached or been declared free growing.

### Vancouver

---

In 1984, the Vancouver Forest Region had an estimated 20 300 hectares of good and medium site classified as backlog NSR. This 2001 summary indicates that 1605 hectares of pre-1982 NSR remain, which represents a reduction of 92% from the original 1984 estimate. The prediction made in the 1990 NSR summary report that the Vancouver Forest Region would be the first region with little or no backlog NSR has been proven out. NSR resulting from the term 1982-87 is currently 628 hectares, which is a 79% reduction since 1997.

The reduction in backlog NSR can be attributed to increased reforestation activities. Increased planting on backlog NSR areas and silviculture surveys have resulted in less area being classified as NSR. Between 1996 and 2000, approximately 182 000 hectares were surveyed in the Vancouver Forest Region.

As of 2001, there are 129 862 hectares of impeded area that have not reached or been declared free growing.

# Review of the Regional Net Backlog NSR and Impeded Land

---

## Summary

---

This report shows that considerable progress has been made at reducing backlog on treatable sites, but that the rate of reduction has slowed in the past two years. As the FRDA agreement wound down in 1990, the Ministry of Forests continued to address backlog areas at a slightly reduced rate. FRBC continues to fund reforestation and survey work, but at a lesser rate.

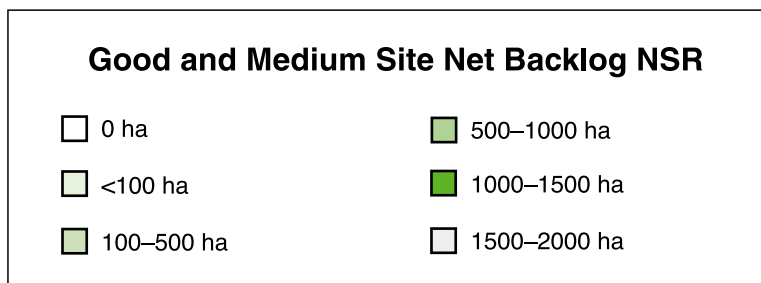
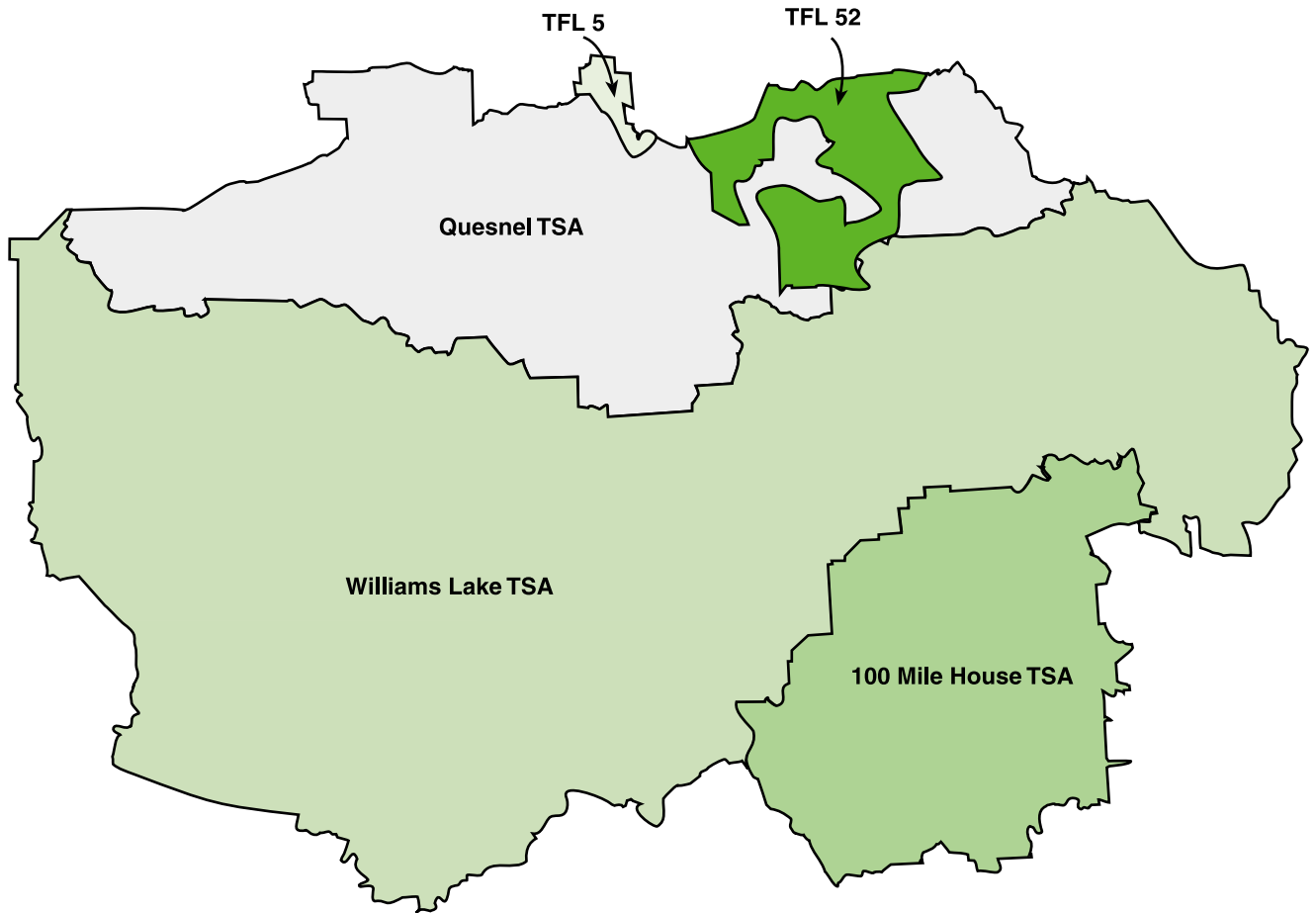
If current rates of surveying and planting continue, backlog NSR is likely to be eliminated in the Cariboo, Kamloops, Nelson Forest Regions by 2005–2006, and sooner in the Vancouver Region. However, it is likely to take until at least 2007 for it to be eliminated in the Prince Rupert

and Prince George Forest Regions. Concurrent with the elimination of backlog NSR is the need for an ongoing long-term commitment to fund the silviculture treatments (i.e., brushing and surveys) which will ensure that these areas develop into healthy, free growing stands. Funding for these activities will be required for approximately 15 years after all backlog NSR areas are rehabilitated, planted or naturally regenerated.

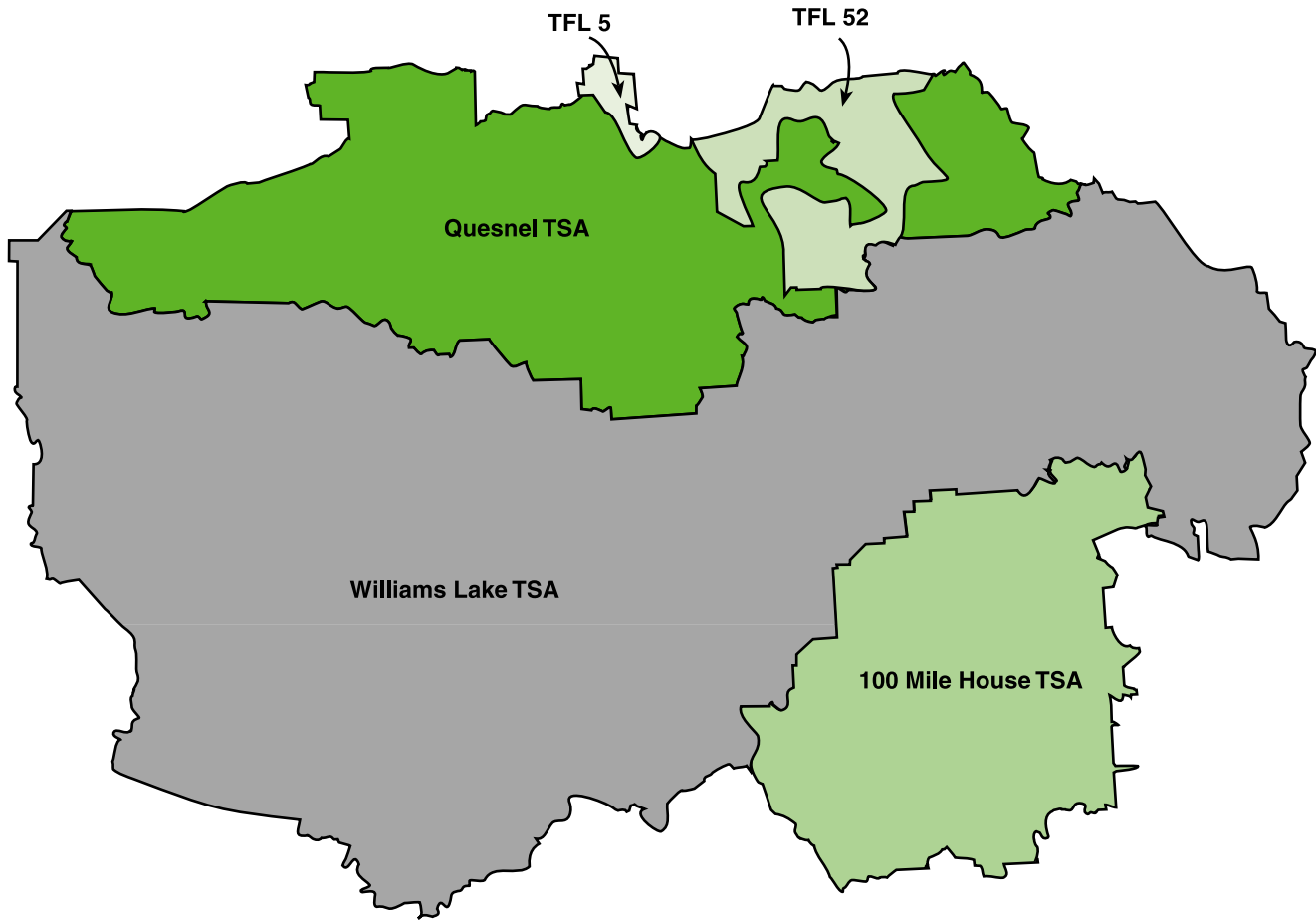
Estimates of impeded area are expected to decrease for all Forest Regions as more surveys are conducted, more areas are brushed, and existing information on files is reviewed and the ISIS database is updated.



## Location of the Good and Medium Site Net Pre-1982 Backlog NSR Land



## Location of the Good, Medium and Poor Site Net 1982–87 Backlog NSR Land

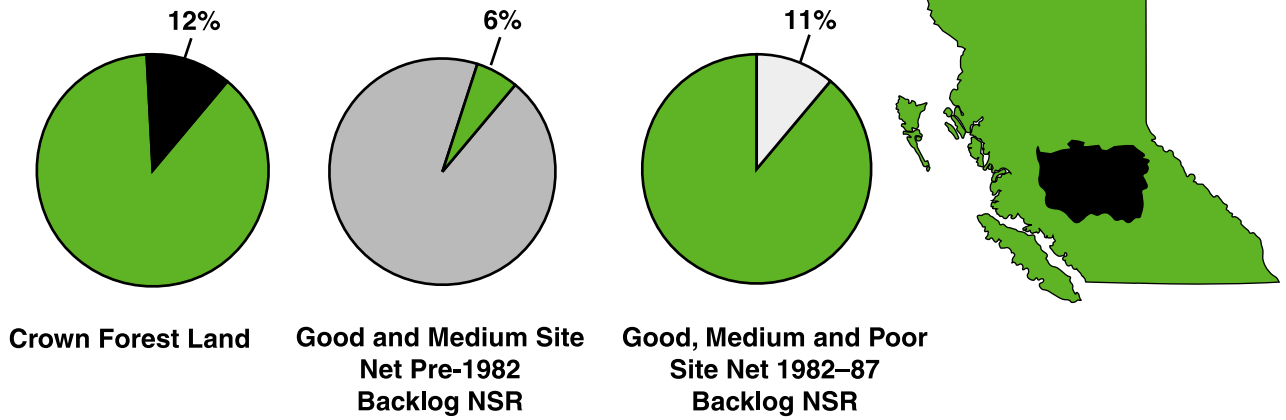


### Good, Medium and Poor Site Net Backlog NSR



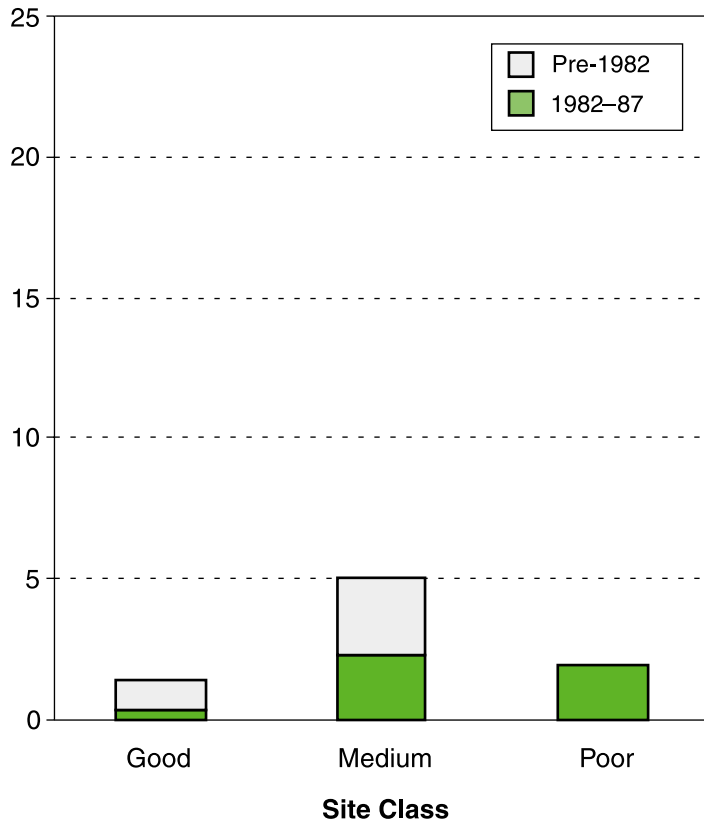
# Cariboo Forest Region

Proportions of Provincial Totals in Cariboo Forest Region

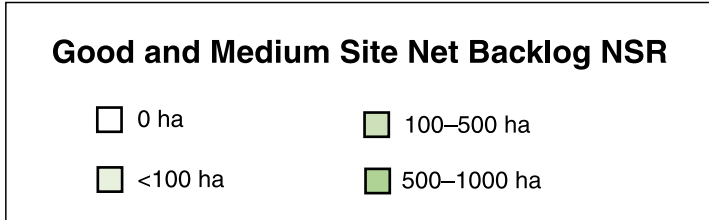
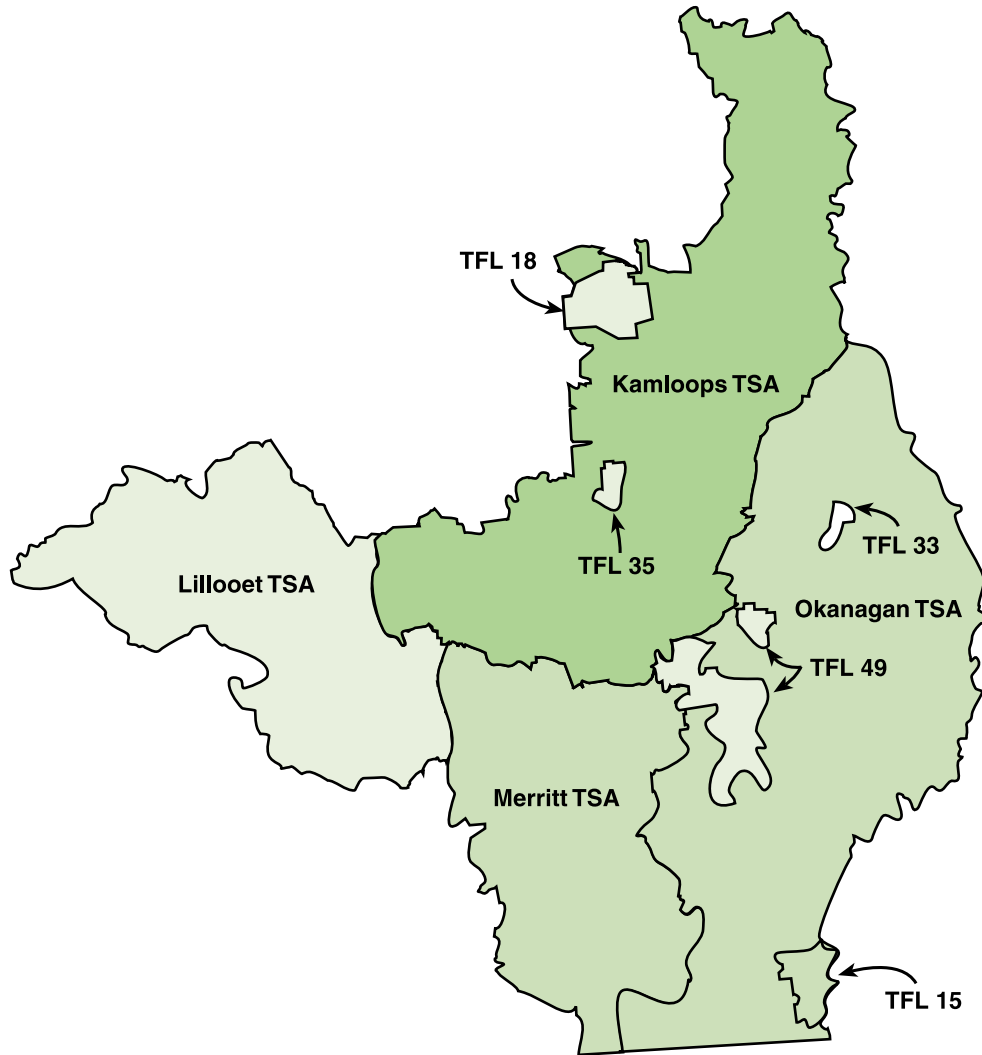


## Net Backlog NSR by Site Class

Hectares (thousands)

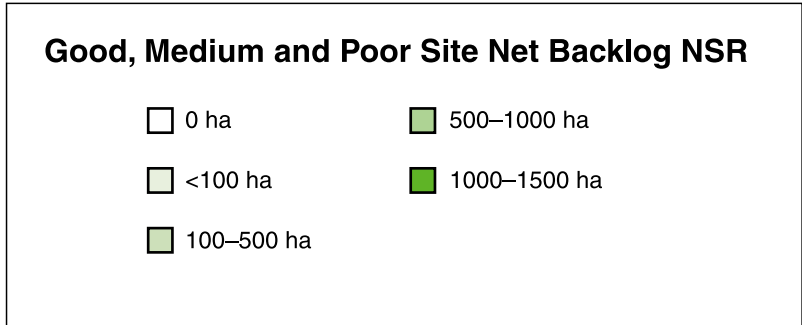
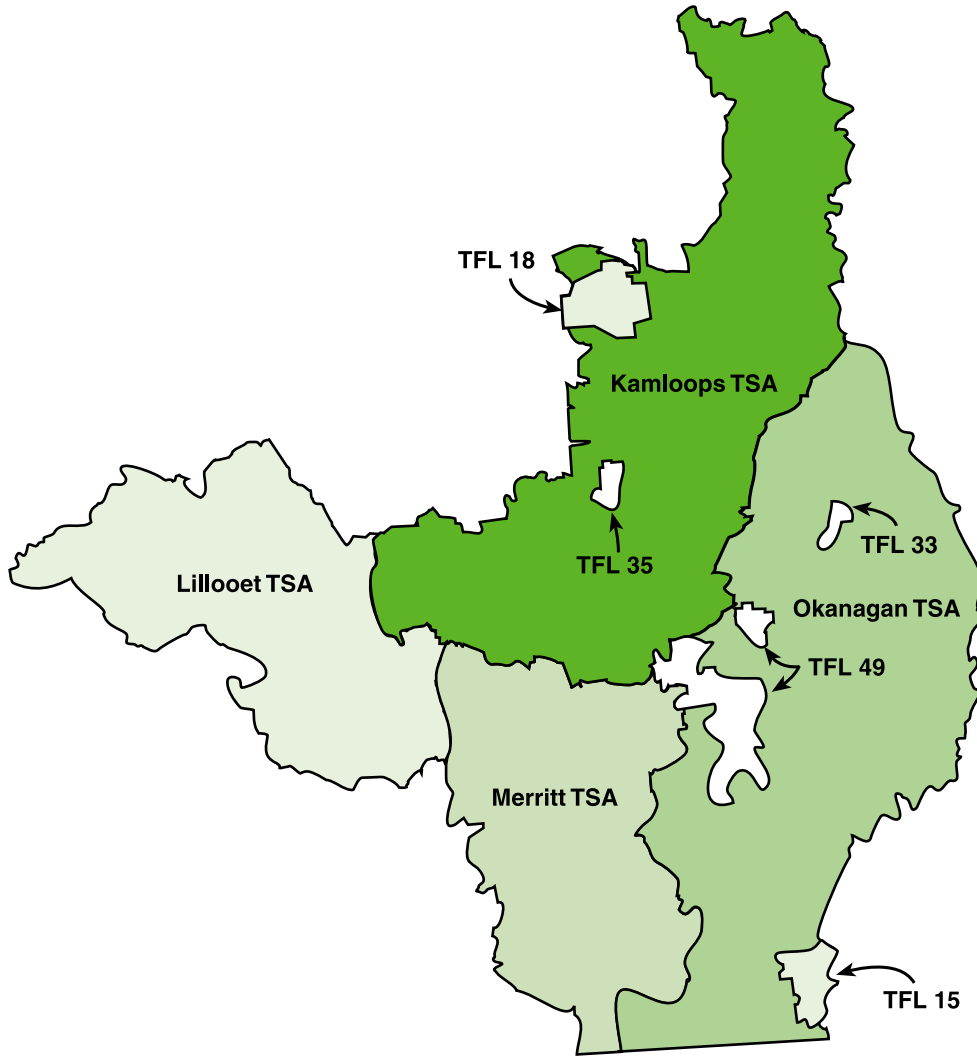


## Location of the Good and Medium Site Net Pre-1982 Backlog NSR Land



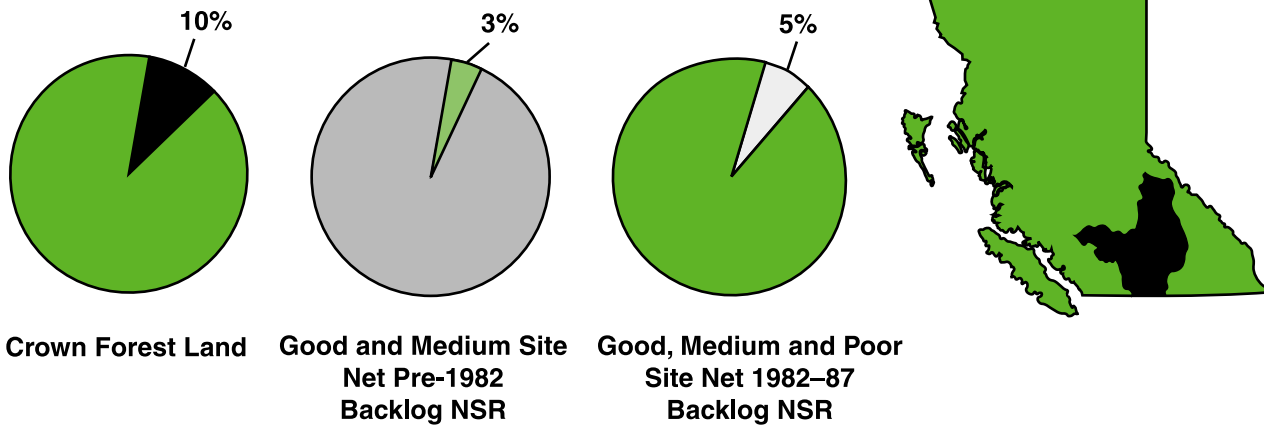
# Kamloops Forest Region

## Location of the Good, Medium and Poor Site Net 1982–87 Backlog NSR Land

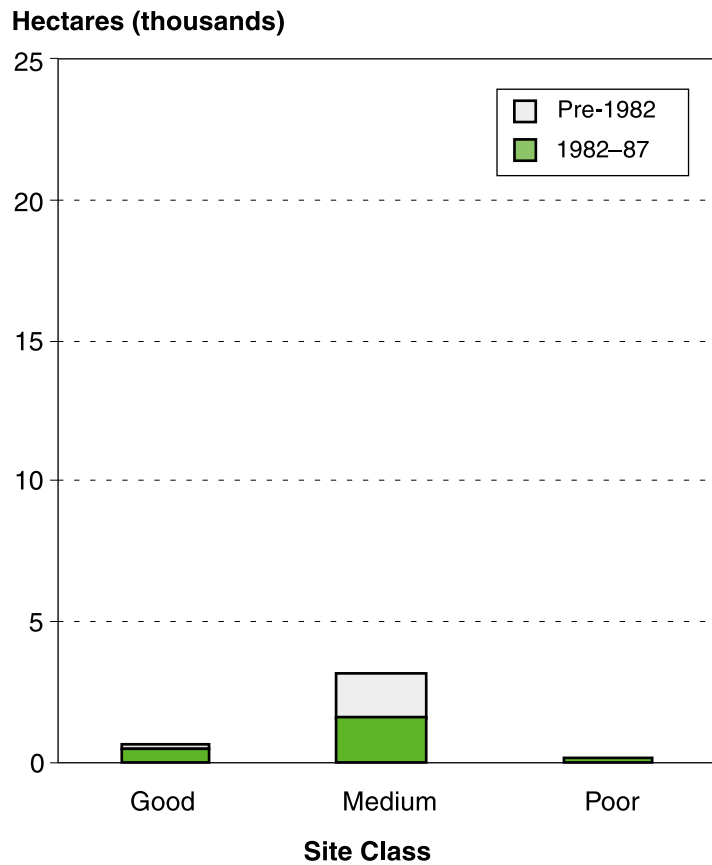


# Kamloops Forest Region

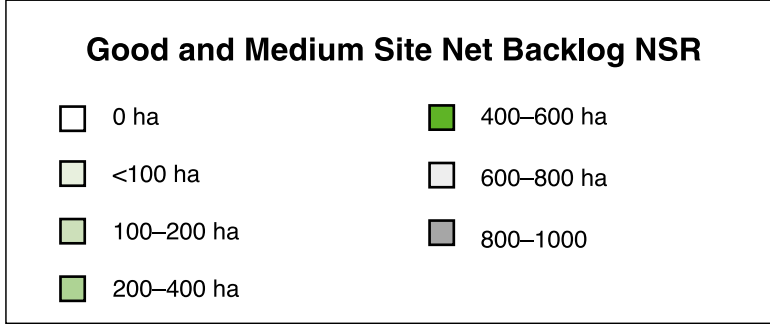
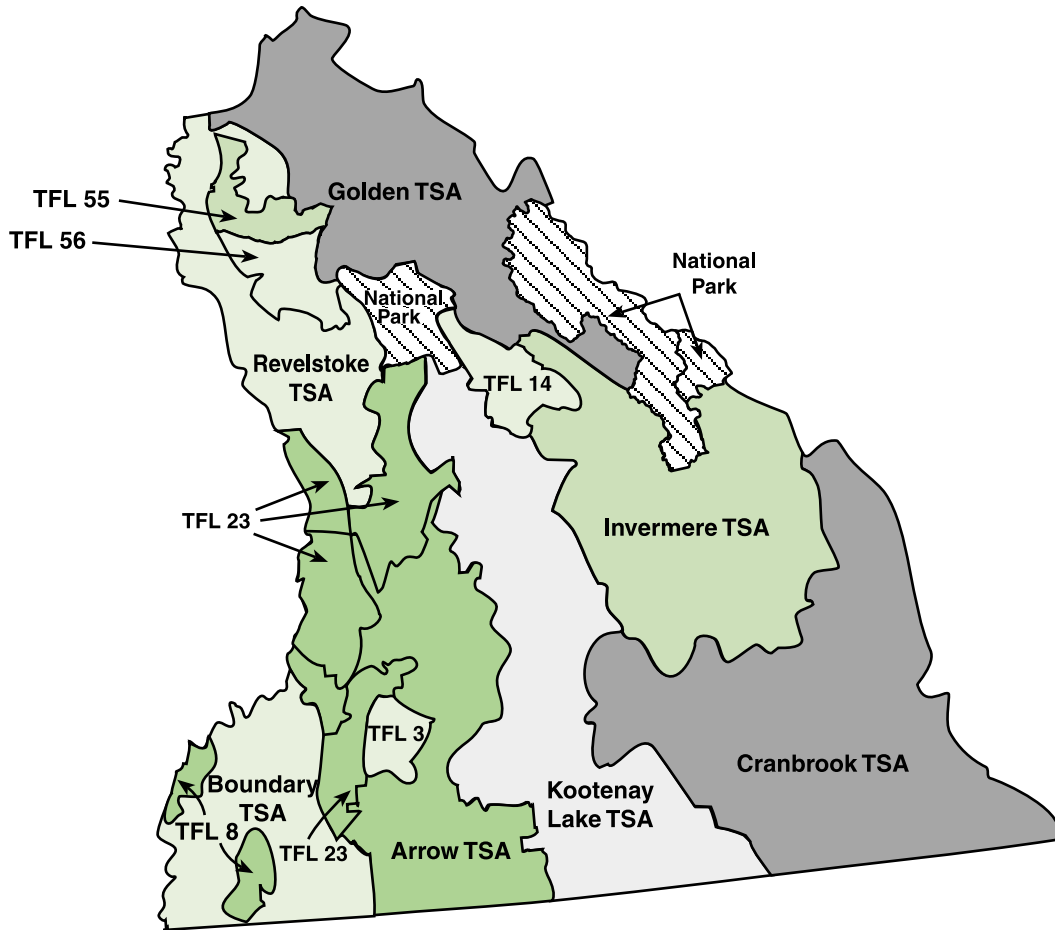
Proportions of Provincial Totals in Kamloops Forest Region



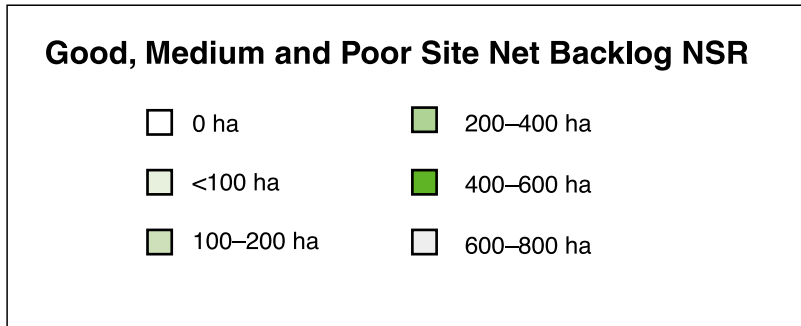
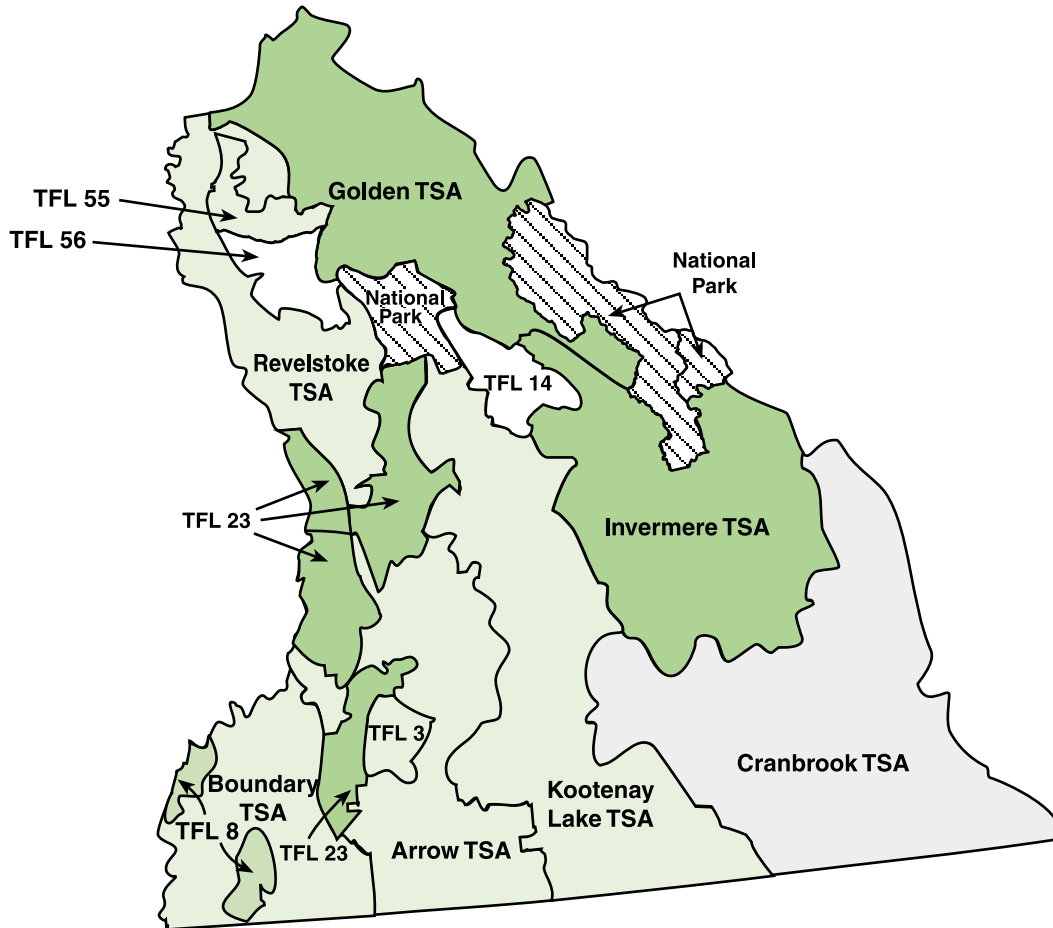
## Net Backlog NSR by Site Class



## Location of the Good and Medium Site Net Pre-1982 Backlog NSR Land



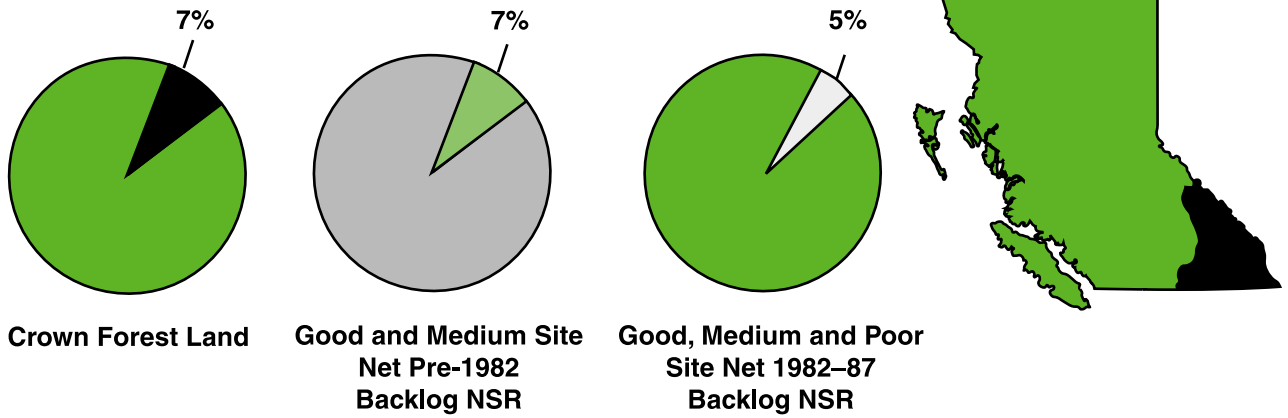
Location of the Good, Medium and Poor Site  
Net 1982–87 Backlog NSR Land



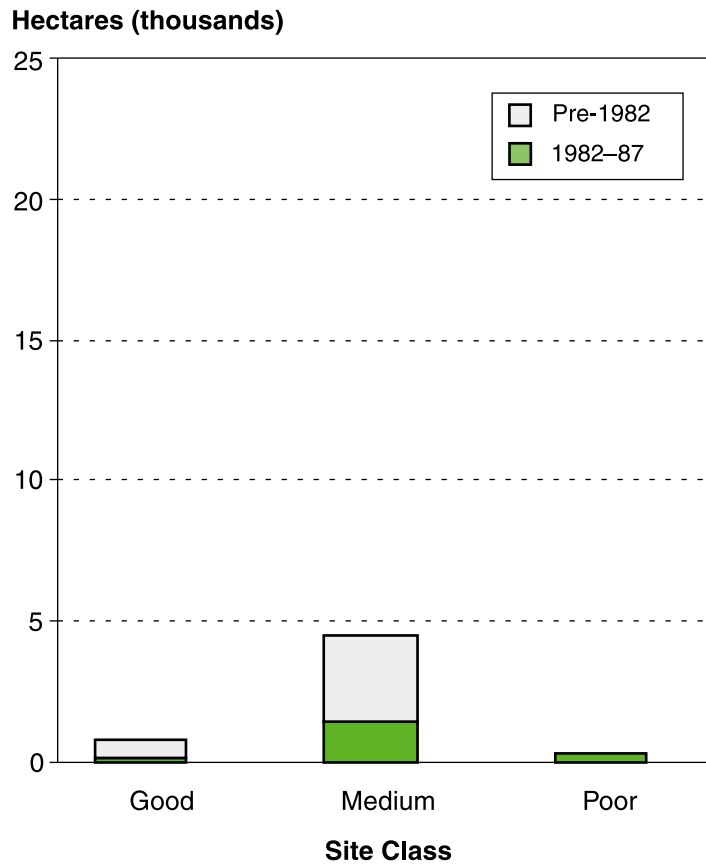


# Nelson Forest Region

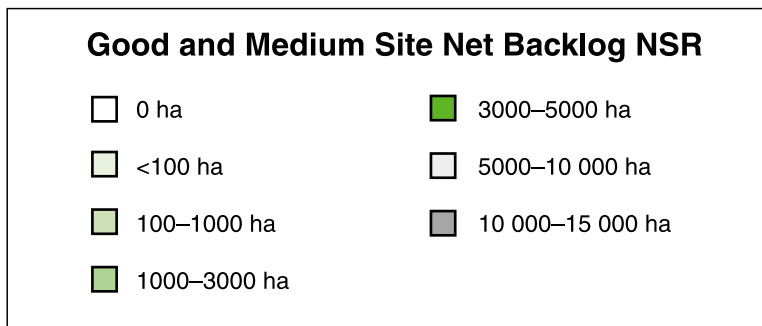
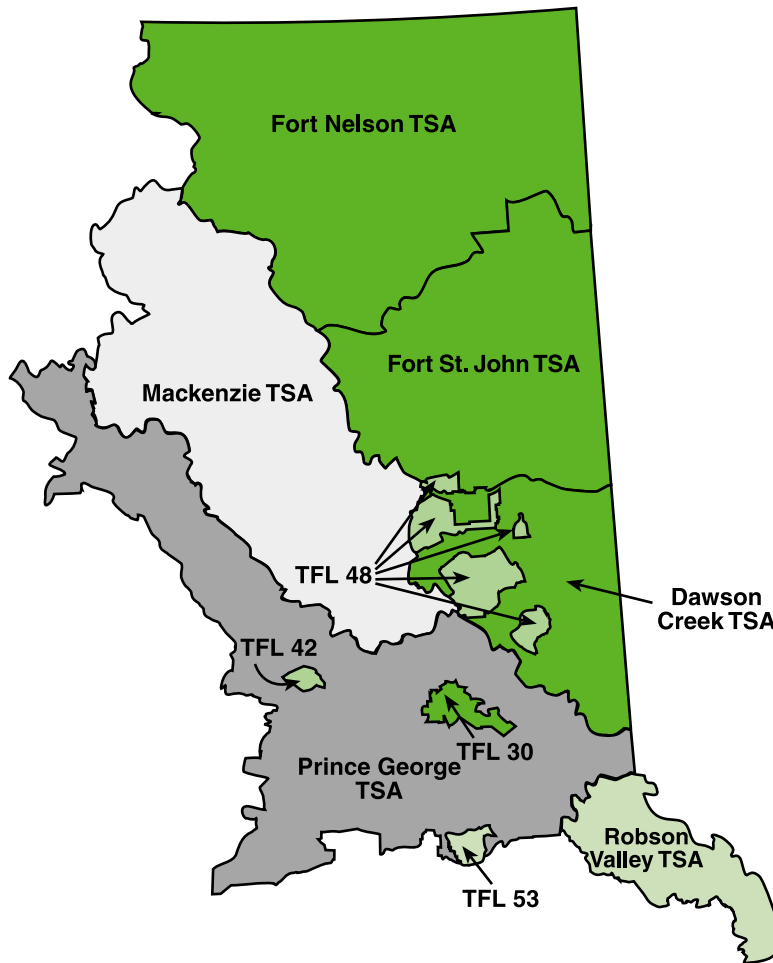
Proportions of Provincial Totals in Nelson Forest Region



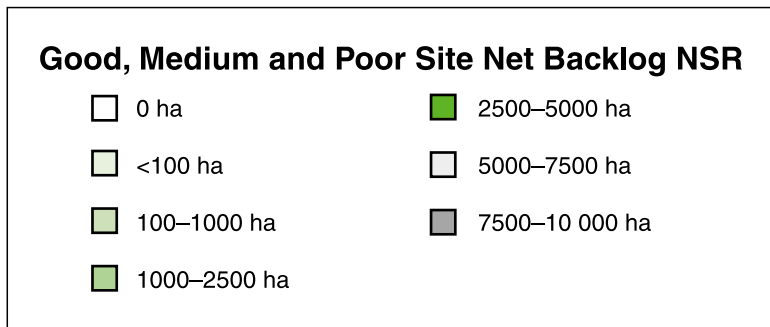
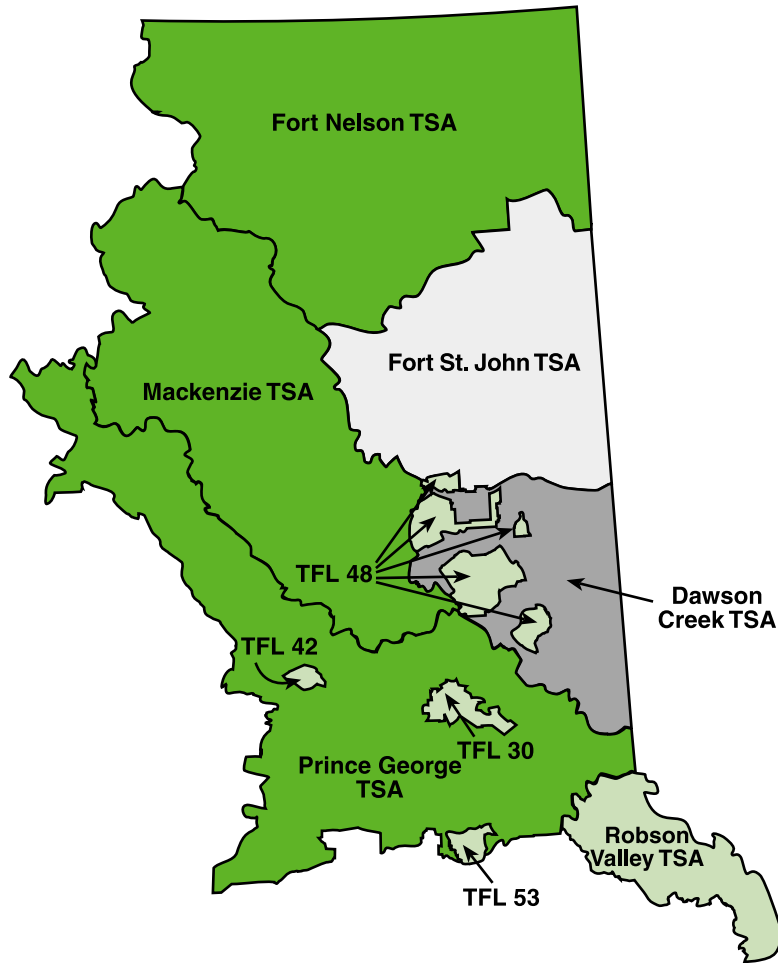
Net Backlog NSR by Site Class



## Location of the Good and Medium Site Net Pre-1982 Backlog NSR Land

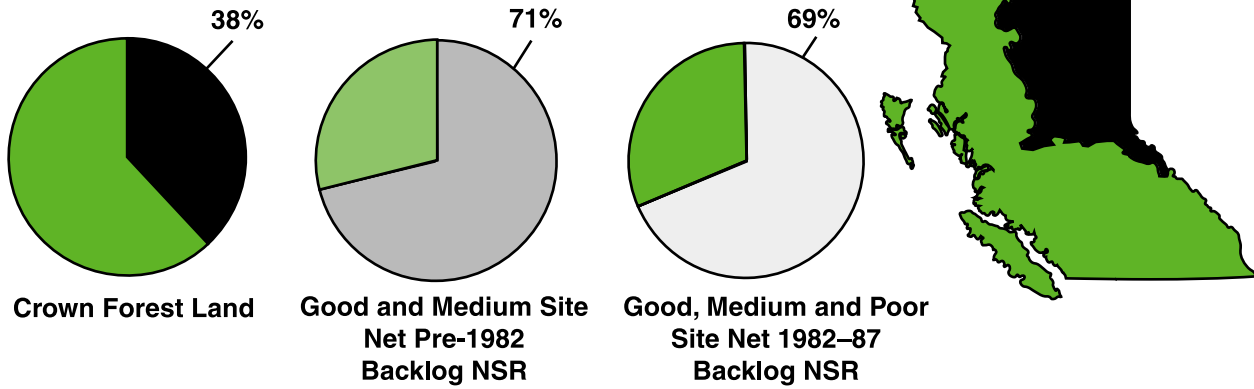


## Location of the Good, Medium and Poor Site Net 1982–87 Backlog NSR Land

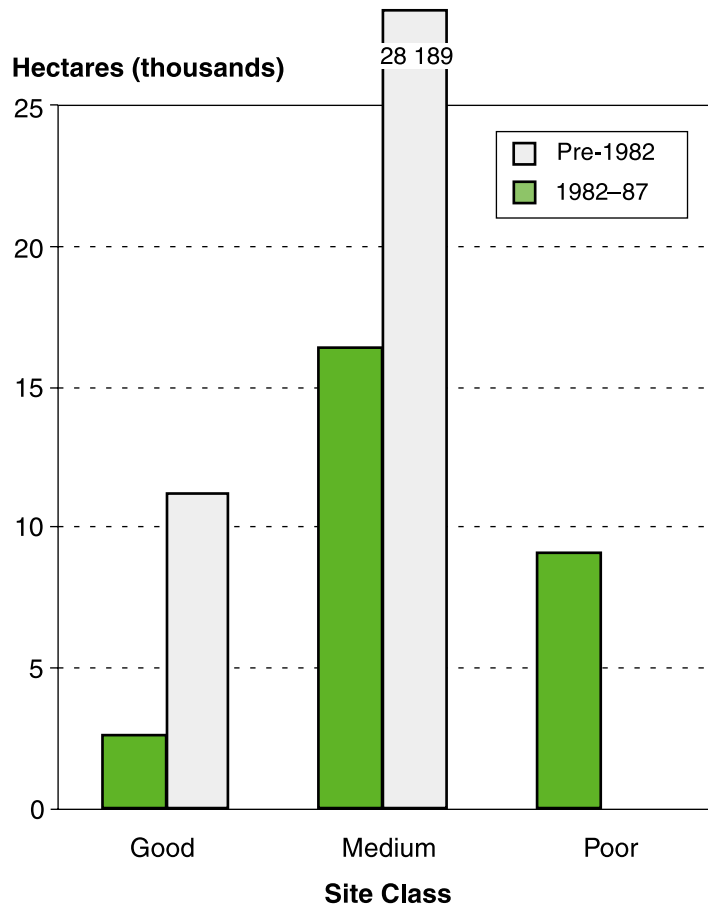


# Prince George Forest Region

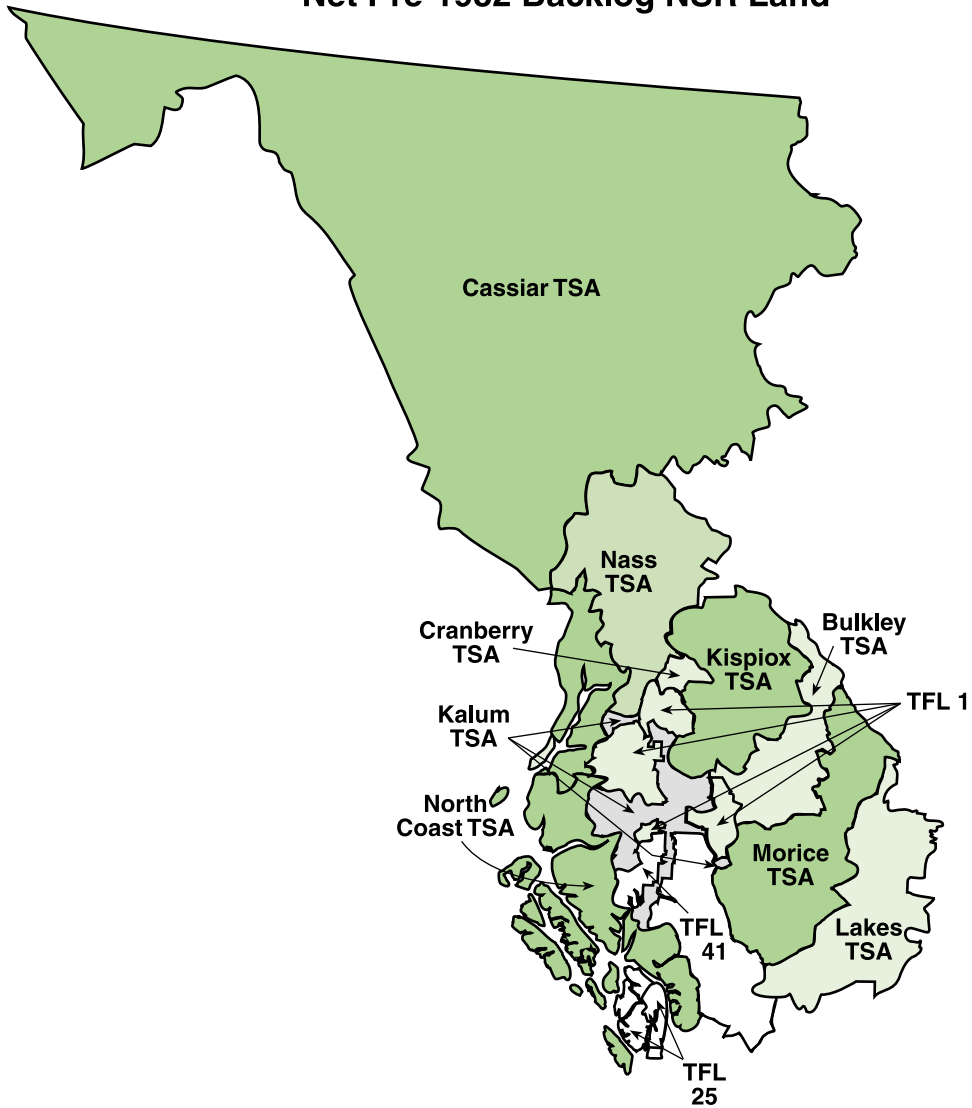
Proportions of Provincial Totals in Prince George Forest Region



Net Backlog NSR by Site Class



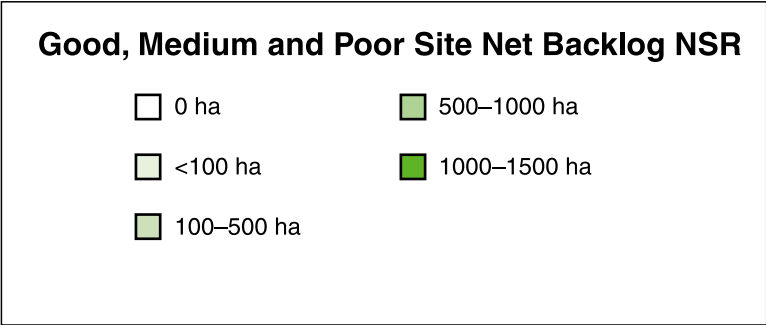
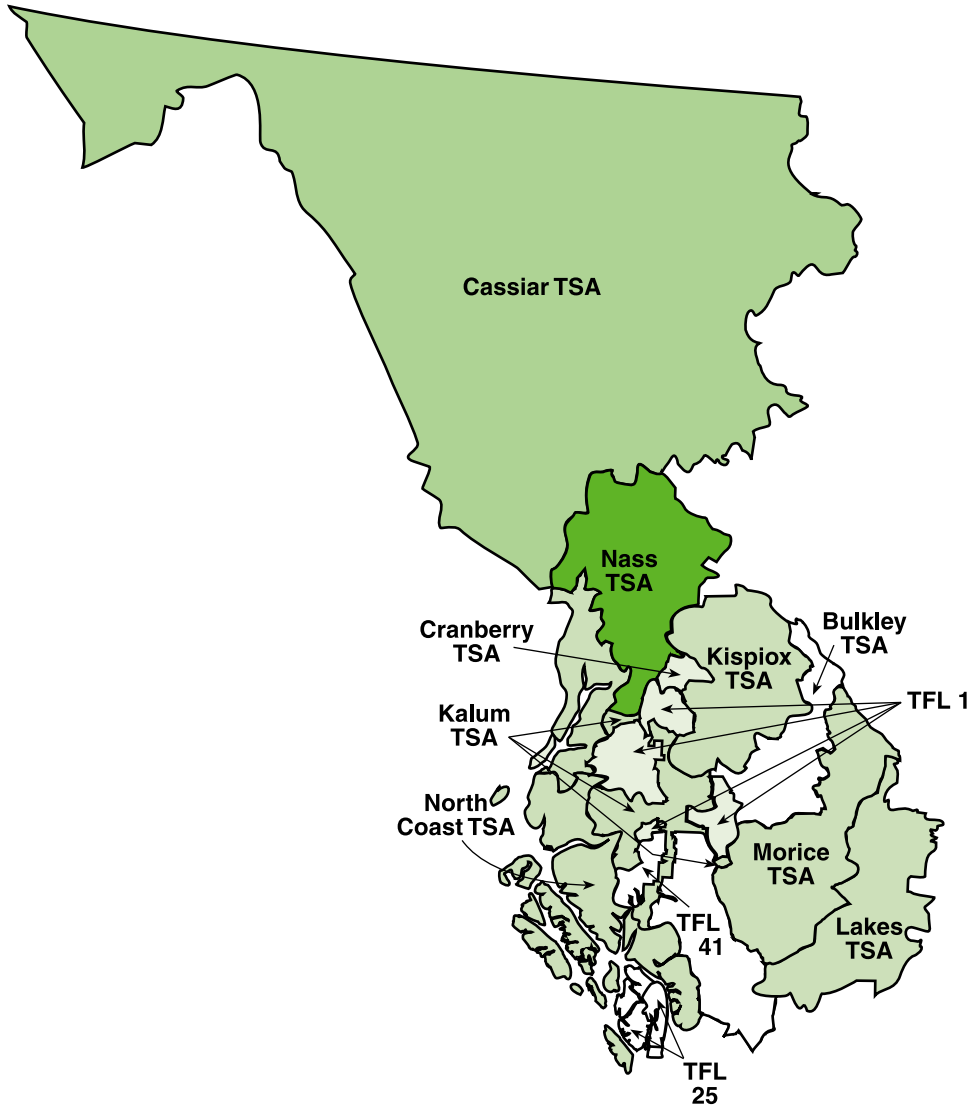
## Location of the Good and Medium Site Net Pre-1982 Backlog NSR Land



### Good and Medium Site Net Backlog NSR

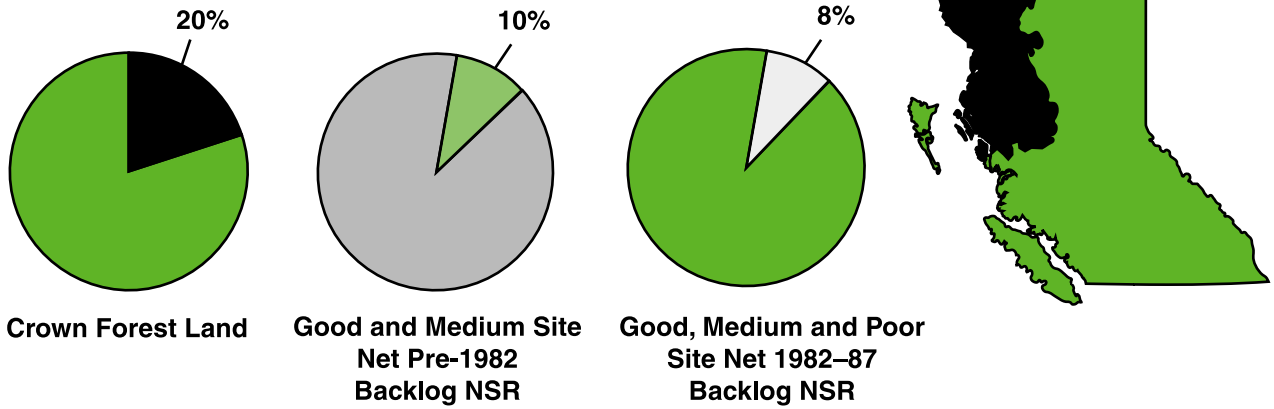


## Location of the Good, Medium and Poor Site Net 1982–87 Backlog NSR Land

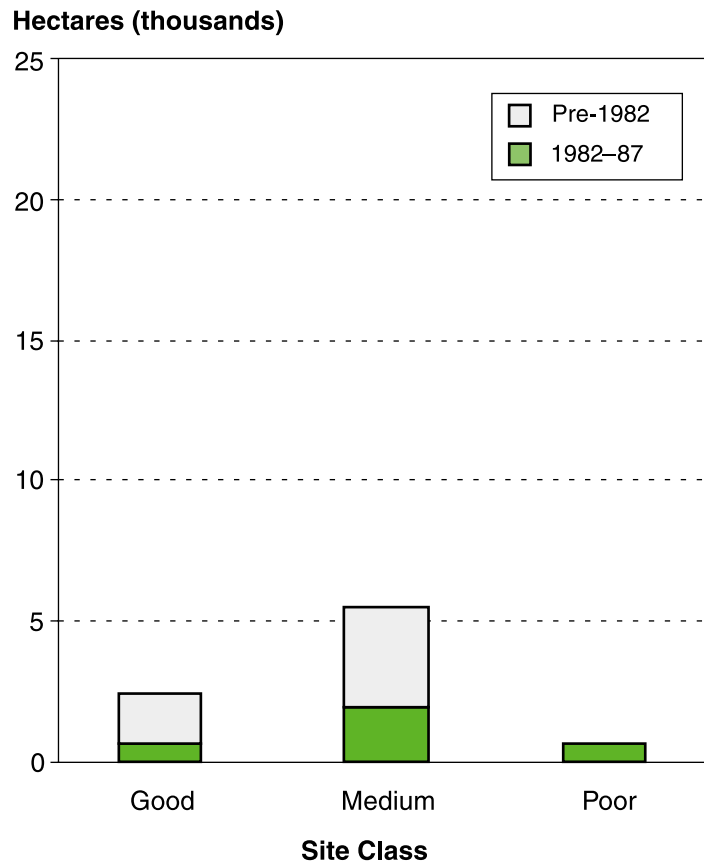


# Prince Rupert Forest Region

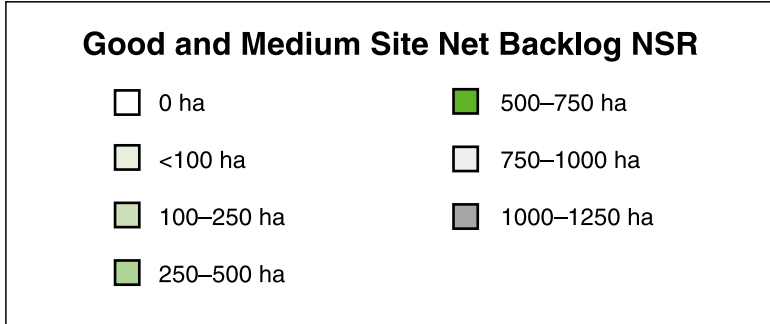
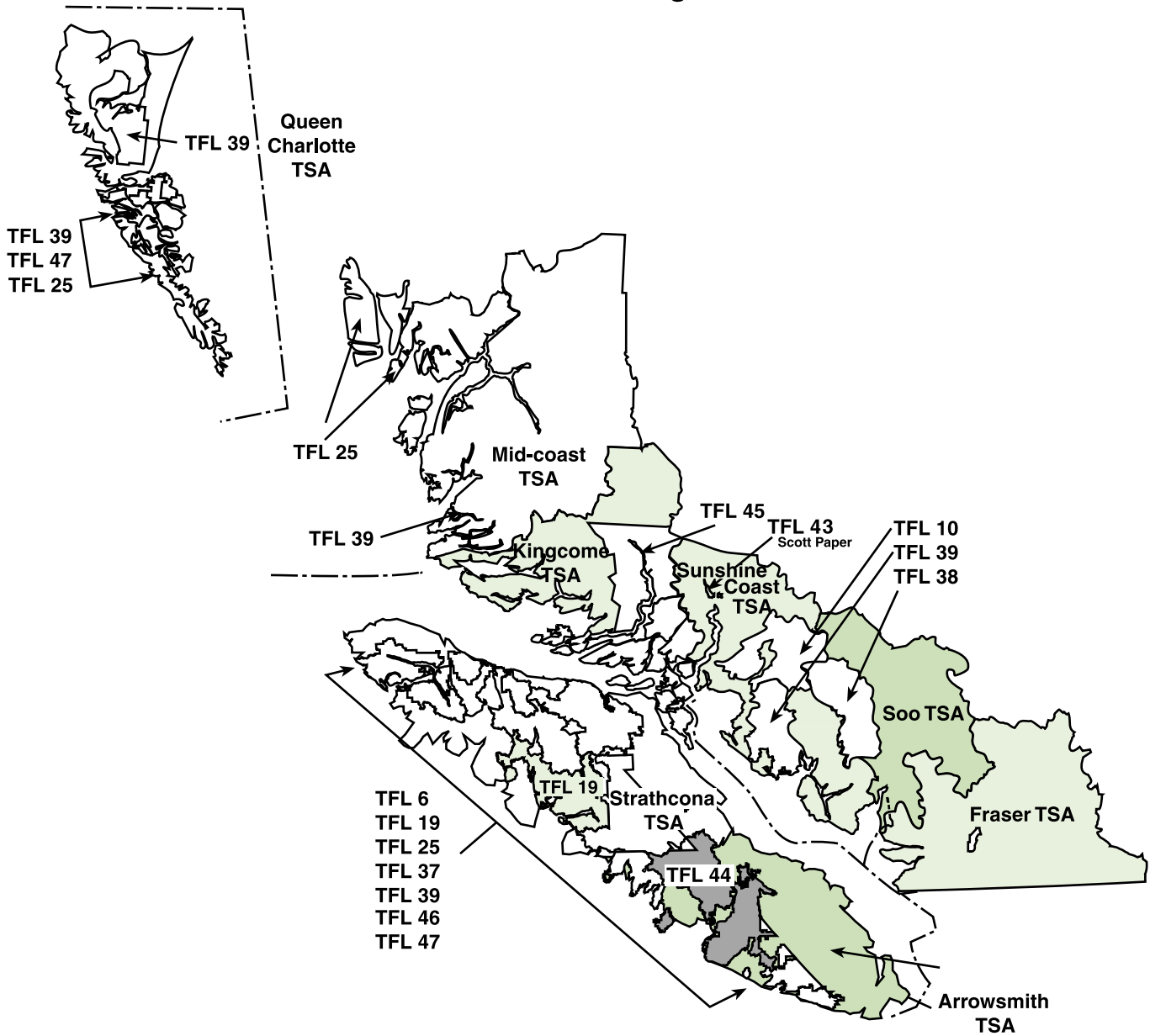
Proportions of Provincial Totals in Prince Rupert Forest Region



## Net Backlog NSR by Site Class



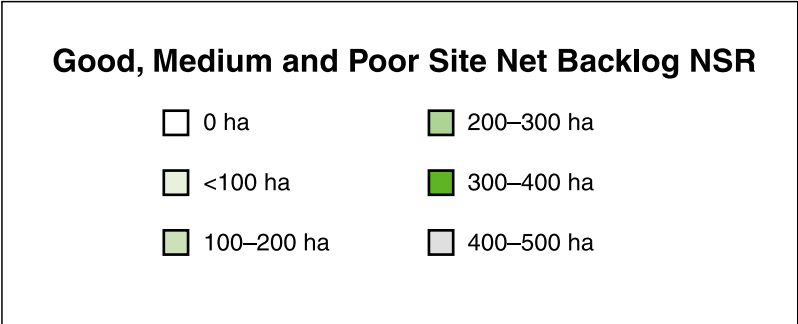
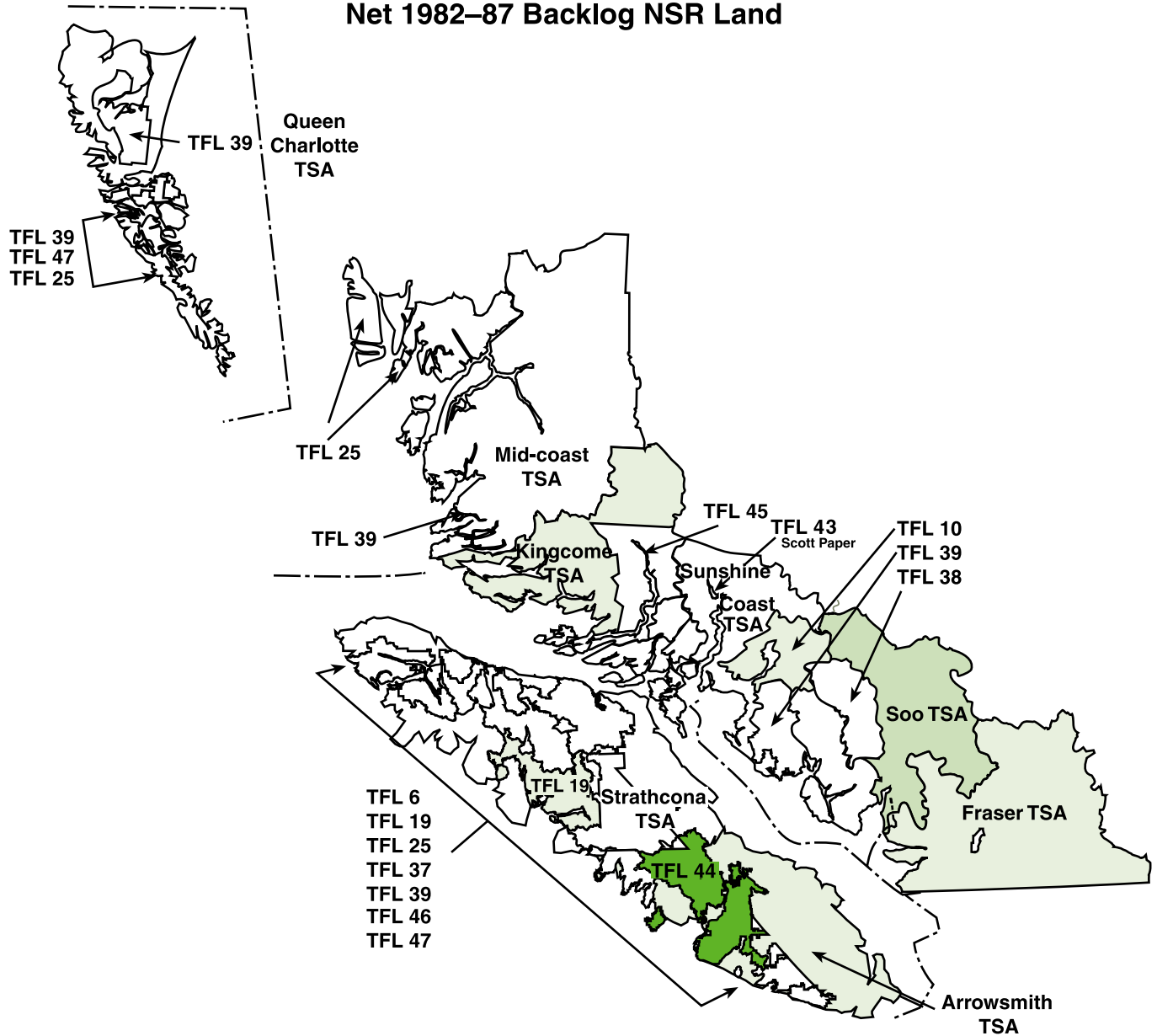
## Location of the Good and Medium Site Net Pre-1982 Backlog NSR Land





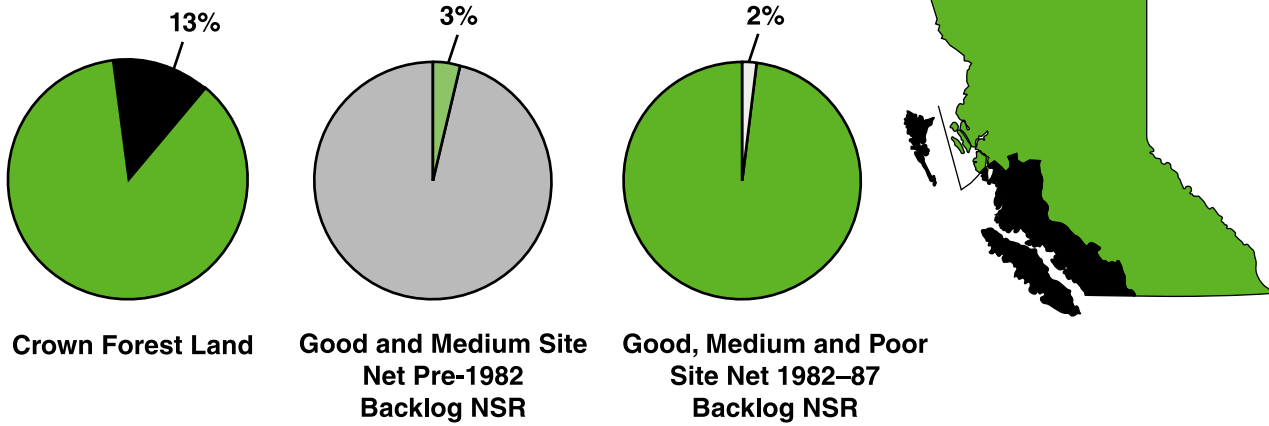
# Vancouver Forest Region

## Location of the Good, Medium and Poor Site Net 1982–87 Backlog NSR Land

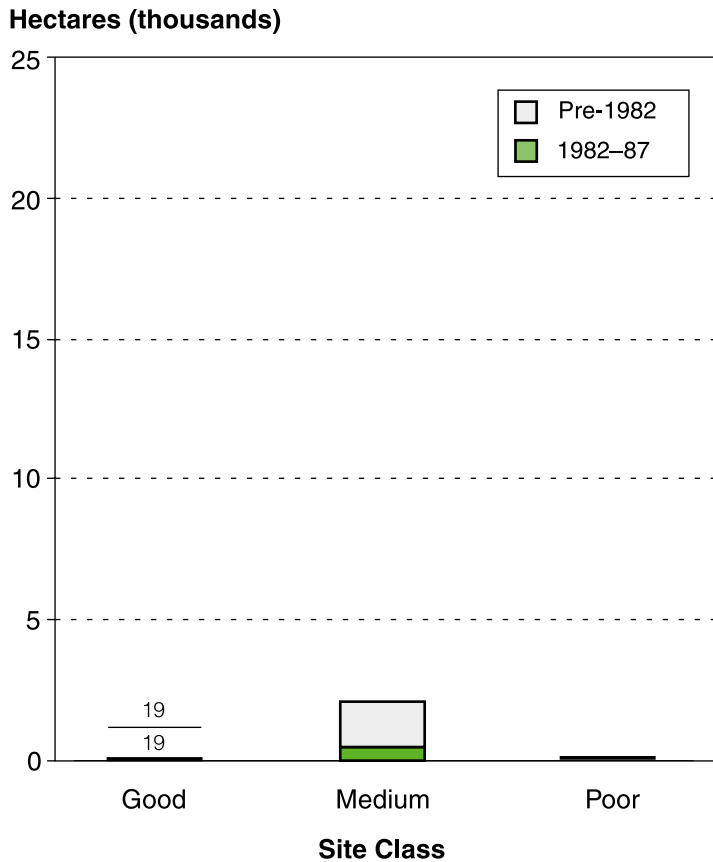


# Vancouver Forest Region

Proportions of Provincial Totals in Vancouver Forest Region



## Net Backlog NSR by Site Class



## Appendix 1 Summary of Regional Proportions

### Summary Table of Provincial/Regional Proportions

| Region                   | Percent of provincial Crown land |                           |                                |
|--------------------------|----------------------------------|---------------------------|--------------------------------|
|                          | Productive forest land           | Net backlog NSR           |                                |
|                          |                                  | Pre-1982<br>(good + med.) | 1982-87<br>(good, med. + poor) |
| Cariboo                  | 12                               | 6                         | 11                             |
| Kamloops                 | 10                               | 3                         | 5                              |
| Nelson                   | 7                                | 7                         | 5                              |
| Prince George            | 38                               | 71                        | 69                             |
| Prince Rupert            | 20                               | 10                        | 8                              |
| Vancouver                | 13                               | 3                         | 2                              |
| <b>Provincial totals</b> | <b>100</b>                       | <b>100</b>                | <b>100</b>                     |

## Appendix 2 Summary of Net Backlog<sup>a</sup> NSR by Region, TSA and TFL

### Backlog Not Satisfactorily Restocked Land<sup>a</sup>

#### Pre-1982 NSR Site by Class

| Region                             | Site class             |               |               |              | Total         |
|------------------------------------|------------------------|---------------|---------------|--------------|---------------|
|                                    | Good                   | Medium        | Poor          | Low          |               |
| (area in hectares)                 |                        |               |               |              |               |
| Cariboo                            | 947                    | 2 675         | 595           | 0            | 4 217         |
| Kamloops                           | 165                    | 1 602         | 140           | 0            | 1 907         |
| Nelson                             | 657                    | 3 097         | 790           | 406          | 4 950         |
| Prince George                      | 11 067                 | 28 189        | 11 049        | 3 471        | 53 776        |
| Prince Rupert                      | 1 812                  | 3 610         | 7 365         | 0            | 12 787        |
| Vancouver                          | 19                     | 1 587         | 268           | 26           | 1 900         |
| <b>Provincial totals</b>           | <b>14 667</b>          | <b>40 760</b> | <b>20 207</b> | <b>3 903</b> | <b>79 537</b> |
| <b>Total good and medium (net)</b> | <b>55 427 hectares</b> |               |               |              |               |

<sup>a</sup> Summary for Crown land only and includes timber supply areas and tree farm licences. Data derived from hand compiled TFL summaries and the Ministry of Forests' ISIS. Backlog NSR represents net NSR after deductions as per Appendix 3.

## Appendix 2 Continued

### Backlog Not Satisfactorily Restocked Land<sup>a</sup>

#### 1982–87 NSR by Site Class

| Region                                   | Site class             |               |               |            | Total         |
|------------------------------------------|------------------------|---------------|---------------|------------|---------------|
|                                          | Good                   | Medium        | Poor          | Low        |               |
|                                          | (area in hectares)     |               |               |            |               |
| Cariboo                                  | 385                    | 2 281         | 1 874         | 18         | 4 558         |
| Kamloops                                 | 415                    | 1 618         | 132           | 0          | 2 165         |
| Nelson                                   | 220                    | 1 462         | 324           | 11         | 2 017         |
| Prince George                            | 2 597                  | 16 341        | 9 089         | 62         | 28 089        |
| Prince Rupert                            | 614                    | 1 927         | 633           | 91         | 3 265         |
| Vancouver                                | 19                     | 561           | 48            | 25         | 653           |
| <b>Provincial totals</b>                 | <b>4 250</b>           | <b>24 190</b> | <b>12 100</b> | <b>207</b> | <b>40 747</b> |
| <b>Total good, medium and poor (net)</b> | <b>40 540 hectares</b> |               |               |            |               |

<sup>a</sup> Summary for Crown land only and includes timber supply areas and tree farm licences. Data derived from hand compiled TFL summaries and the Ministry of Forests' ISIS. Backlog NSR represents net NSR after deductions as per Appendix 3.

## Appendix 2 Continued

### Regional Summary of Backlog Not Satisfactorily Restocked Land<sup>a</sup>

#### Pre-1982 NSR by Site Class

| Region                             | Management unit | Site class             |               |               |              | Total         |
|------------------------------------|-----------------|------------------------|---------------|---------------|--------------|---------------|
|                                    |                 | Good                   | Medium        | Poor          | Low          |               |
| (area in hectares)                 |                 |                        |               |               |              |               |
| Cariboo                            | TSA             | 907                    | 1 546         | 595           | 0            | 3 048         |
|                                    | TFL             | 40                     | 1 129         | 0             | 0            | 1 169         |
|                                    | <b>Total</b>    | <b>947</b>             | <b>2 675</b>  | <b>595</b>    | <b>0</b>     | <b>4 217</b>  |
| Kamloops                           | TSA             | 151                    | 1 388         | 140           | 0            | 1 679         |
|                                    | TFL             | 14                     | 214           | 0             | 0            | 228           |
|                                    | <b>Total</b>    | <b>165</b>             | <b>1 602</b>  | <b>140</b>    | <b>0</b>     | <b>1 907</b>  |
| Nelson                             | TSA             | 473                    | 2 463         | 540           | 23           | 3 499         |
|                                    | TFL             | 184                    | 634           | 250           | 383          | 1 451         |
|                                    | <b>Total</b>    | <b>657</b>             | <b>3 097</b>  | <b>790</b>    | <b>406</b>   | <b>4 950</b>  |
| Prince George                      | TSA             | 7 950                  | 22 628        | 10 789        | 3 471        | 44 838        |
|                                    | TFL             | 3 117                  | 5 561         | 260           | 0            | 8 938         |
|                                    | <b>Total</b>    | <b>11 067</b>          | <b>28 189</b> | <b>11 049</b> | <b>3 471</b> | <b>53 776</b> |
| Prince Rupert                      | TSA             | 1 812                  | 3 565         | 7 365         | 0            | 12 742        |
|                                    | TFL             | 0                      | 45            | 0             | 0            | 45            |
|                                    | <b>Total</b>    | <b>1 812</b>           | <b>3 610</b>  | <b>7 365</b>  | <b>0</b>     | <b>12 787</b> |
| Vancouver                          | TSA             | 9                      | 436           | 252           | 26           | 723           |
|                                    | TFL             | 10                     | 1 151         | 16            | 0            | 1 177         |
|                                    | <b>Total</b>    | <b>19</b>              | <b>1 587</b>  | <b>268</b>    | <b>26</b>    | <b>1 900</b>  |
| Province                           | TSA             | 11 302                 | 32 026        | 19 681        | 3 520        | 66 529        |
|                                    | TFL             | 3 365                  | 8 734         | 526           | 383          | 13 008        |
|                                    | <b>Total</b>    | <b>14 667</b>          | <b>40 760</b> | <b>20 207</b> | <b>3 903</b> | <b>79 537</b> |
| <b>Total good and medium (net)</b> |                 | <b>55 427 hectares</b> |               |               |              |               |

<sup>a</sup> Summary for Crown land only and includes timber supply areas and tree farm licences. Data derived from hand compiled TFL summaries and the Ministry of Forests' ISIS. Backlog NSR represents net NSR after deductions as per Appendix 3.

## Appendix 2 Continued

### Regional Summary of Backlog Not Satisfactorily Restocked Land<sup>a</sup>

#### 1982–87 NSR by Site Class

| Region                                   | Management unit | Site class                         |               |               |            | Total         |
|------------------------------------------|-----------------|------------------------------------|---------------|---------------|------------|---------------|
|                                          |                 | Good                               | Medium        | Poor          | Low        |               |
| (area in hectares)                       |                 |                                    |               |               |            |               |
| Cariboo                                  | TSA             | 375                                | 2 121         | 1 874         | 18         | 4 388         |
|                                          | TFL             | 10                                 | 160           | 0             | 0          | 170           |
|                                          | <b>Total</b>    | <b>385</b>                         | <b>2 281</b>  | <b>1 874</b>  | <b>18</b>  | <b>4 558</b>  |
| Kamloops                                 | TSA             | 415                                | 1 578         | 132           | 0          | 2 125         |
|                                          | TFL             | 0                                  | 40            | 0             | 0          | 40            |
|                                          | <b>Total</b>    | <b>415</b>                         | <b>1 618</b>  | <b>132</b>    | <b>0</b>   | <b>2 165</b>  |
| Nelson                                   | TSA             | 83                                 | 1 055         | 303           | 11         | 1 452         |
|                                          | TFL             | 137                                | 407           | 21            | 0          | 565           |
|                                          | <b>Total</b>    | <b>220</b>                         | <b>1 462</b>  | <b>324</b>    | <b>11</b>  | <b>2 017</b>  |
| Prince George                            | TSA             | 2 442                              | 15 569        | 9 042         | 62         | 27 115        |
|                                          | TFL             | 155                                | 772           | 47            | 0          | 974           |
|                                          | <b>Total</b>    | <b>2 597</b>                       | <b>16 341</b> | <b>9 089</b>  | <b>62</b>  | <b>28 089</b> |
| Prince Rupert                            | TSA             | 614                                | 1 884         | 628           | 91         | 3 217         |
|                                          | TFL             | 0                                  | 43            | 5             | 0          | 48            |
|                                          | <b>Total</b>    | <b>614</b>                         | <b>1 927</b>  | <b>633</b>    | <b>91</b>  | <b>3 265</b>  |
| Vancouver                                | TSA             | 19                                 | 216           | 48            | 25         | 308           |
|                                          | TFL             | 0                                  | 345           | 0             | 0          | 345           |
|                                          | <b>Total</b>    | <b>19</b>                          | <b>561</b>    | <b>48</b>     | <b>25</b>  | <b>653</b>    |
| Province                                 | TSA             | 3 948                              | 22 243        | 12 027        | 207        | 38 605        |
|                                          | TFL             | 302                                | 1 767         | 73            | 0          | 2 142         |
|                                          | <b>Total</b>    | <b>4 250</b>                       | <b>24 190</b> | <b>12 100</b> | <b>207</b> | <b>40 747</b> |
| <b>Total good, medium and poor (net)</b> |                 | <b>40 540<sup>b</sup> hectares</b> |               |               |            |               |

<sup>a</sup> Summary for Crown land only and includes timber supply areas and tree farm licences. Data derived from hand compiled TFL summaries and the Ministry of Forests' ISIS. Backlog NSR represents net NSR after deductions as per Appendix 3.

<sup>b</sup> Numbers may vary slightly from table to table due to rounding.

## Appendix 2 Continued

### Cariboo Forest Region – Summary of Backlog Not Satisfactorily Restocked Land<sup>a</sup>

#### Pre-1982 NSR by Site Class

| Management unit type,<br>number and location |    | Site class                  |            |              |            | Total    |              |
|----------------------------------------------|----|-----------------------------|------------|--------------|------------|----------|--------------|
|                                              |    | Good                        | Medium     | Poor         | Low        |          |              |
|                                              |    | (area in hectares)          |            |              |            |          |              |
| <b>TSA</b>                                   | 23 | 100 Mile House              | 75         | 464          | 397        | 0        | 936          |
|                                              | 26 | Quesnel                     | 800        | 930          | 21         | 0        | 1 751        |
|                                              | 29 | Williams Lake               | 32         | 152          | 177        | 0        | 361          |
| <b>Total TSA</b>                             |    |                             | 907        | 1 546        | 595        | 0        | 3 048        |
| <b>TFL</b>                                   | 5  | Mackenzie–Cariboo (Quesnel) | 40         | 4            | 0          | 0        | 44           |
|                                              | 52 | Bowron–Cottonwood           | 0          | 1125         | 0          | 0        | 1125         |
| <b>Total TFL</b>                             |    |                             | 40         | 1 129        | 0          | 0        | 1 169        |
| <b>Total region</b>                          |    |                             | <b>947</b> | <b>2 675</b> | <b>595</b> | <b>0</b> | <b>4 217</b> |

<sup>a</sup> Summary for Crown land only and includes timber supply areas and tree farm licences. Data derived from hand compiled TFL summaries and the Ministry of Forests' ISIS. Backlog NSR represents net NSR after deductions as per Appendix 3. The totals for Appendix 2 and Appendix 3 are generated from different ISIS queries. Small differences in totals are attributable to differences in rounding errors between the two queries.



## Appendix 2 Continued

### Cariboo Forest Region – Summary of Backlog Not Satisfactorily Restocked Land<sup>a</sup>

#### 1982–87 NSR by Site Class

| Management unit type,<br>number and location |    | Site class                  |        |       |       | Total |       |
|----------------------------------------------|----|-----------------------------|--------|-------|-------|-------|-------|
|                                              |    | Good                        | Medium | Poor  | Low   |       |       |
|                                              |    | (area in hectares)          |        |       |       |       |       |
| <b>TSA</b>                                   | 23 | 100 Mile House              | 13     | 639   | 217   | 18    | 887   |
|                                              | 26 | Quesnel                     | 263    | 991   | 71    | 0     | 1 325 |
|                                              | 29 | Williams Lake               | 99     | 491   | 1 586 | 0     | 2 176 |
| <b>Total TSA</b>                             |    |                             | 375    | 2 121 | 1 874 | 18    | 4 388 |
| <b>TFL</b>                                   | 5  | Mackenzie–Cariboo (Quesnel) | 10     | 0     | 0     | 0     | 10    |
|                                              | 52 | Bowron–Cottonwood           | 0      | 160   | 0     | 0     | 160   |
| <b>Total TFL</b>                             |    |                             | 10     | 160   | 0     | 0     | 170   |
| <b>Total region</b>                          |    |                             | 385    | 2 281 | 1 874 | 18    | 4 558 |

<sup>a</sup> Summary for Crown land only and includes timber supply areas and tree farm licences. Data derived from hand compiled TFL summaries and the Ministry of Forests' ISIS. Backlog NSR represents net NSR after deductions as per Appendix 3. The totals for Appendix 2 and Appendix 3 are generated from different ISIS queries. Small differences in totals are attributable to differences in rounding errors between the two queries.

## Appendix 2 Continued

### Kamloops Forest Region – Summary of Backlog Not Satisfactorily Restocked Land<sup>a</sup>

#### Pre-1982 NSR by Site Class

| Management unit type,<br>number and location |                              | Site class         |              |            |          |              |
|----------------------------------------------|------------------------------|--------------------|--------------|------------|----------|--------------|
|                                              |                              | Good               | Medium       | Poor       | Low      | Total        |
|                                              |                              | (area in hectares) |              |            |          |              |
| <b>TSA</b>                                   | 11 Kamloops                  | 88                 | 882          | 66         | 0        | 1 036        |
|                                              | 15 Lillooet                  | 0                  | 88           | 0          | 0        | 88           |
|                                              | 18 Merritt                   | 63                 | 91           | 9          | 0        | 163          |
|                                              | 22 Okanagan                  | 0                  | 327          | 65         | 0        | 392          |
| <b>Total TSA</b>                             |                              | <b>151</b>         | <b>1 388</b> | <b>140</b> | <b>0</b> | <b>1 679</b> |
| <b>TFL</b>                                   | 15 Inkaneep (Okanagan Falls) | 0                  | 151          | 0          | 0        | 151          |
|                                              | 18 Clearwater                | 0                  | 53           | 0          | 0        | 53           |
|                                              | 33 Sicamous                  | 0                  | 0            | 0          | 0        | 0            |
|                                              | 35 Jamieson Creek            | 14                 | 9            | 0          | 0        | 23           |
|                                              | 49 Okanagan                  | 0                  | 1            | 0          | 0        | 1            |
| <b>Total TFL</b>                             |                              | <b>14</b>          | <b>214</b>   | <b>0</b>   | <b>0</b> | <b>228</b>   |
| <b>Total region</b>                          |                              | <b>165</b>         | <b>1 602</b> | <b>140</b> | <b>0</b> | <b>1 907</b> |

<sup>a</sup> Summary for Crown land only and includes timber supply areas and tree farm licences. Data derived from hand compiled TFL summaries and the Ministry of Forests' ISIS. Backlog NSR represents net NSR after deductions as per Appendix 3. The totals for Appendix 2 and Appendix 3 are generated from different ISIS queries. Small differences in totals are attributable to differences in rounding errors between the two queries.

## Appendix 2 Continued

### Kamloops Forest Region – Summary of Backlog Not Satisfactorily Restocked Land<sup>a</sup>

#### 1982–1987 NSR by Site Class

| Management unit type,<br>number and location |                              | Site class         |              |            |          |              |
|----------------------------------------------|------------------------------|--------------------|--------------|------------|----------|--------------|
|                                              |                              | Good               | Medium       | Poor       | Low      | Total        |
|                                              |                              | (area in hectares) |              |            |          |              |
| TSA                                          | 11 Kamloops                  | 338                | 886          | 91         | 0        | 1 315        |
|                                              | 15 Lillooet                  | 0                  | 0            | 10         | 0        | 10           |
|                                              | 18 Merritt                   | 77                 | 184          | 23         | 0        | 284          |
|                                              | 22 Okanagan                  | 0                  | 508          | 18         | 0        | 526          |
| <b>Total TSA</b>                             |                              | <b>415</b>         | <b>1 578</b> | <b>132</b> | <b>0</b> | <b>2 125</b> |
| TFL                                          | 15 Inkaneep (Okanagan Falls) | 0                  | 31           | 0          | 0        | 31           |
|                                              | 18 Clearwater                | 0                  | 9            | 0          | 0        | 9            |
|                                              | 33 Sicamous                  | 0                  | 0            | 0          | 0        | 0            |
|                                              | 35 Jamieson Creek            | 0                  | 0            | 0          | 0        | 0            |
|                                              | 49 Okanagan (Kelowna)        | 0                  | 0            | 0          | 0        | 0            |
| <b>Total TFL</b>                             |                              | <b>0</b>           | <b>40</b>    | <b>0</b>   | <b>0</b> | <b>40</b>    |
| <b>Total region</b>                          |                              | <b>415</b>         | <b>1 618</b> | <b>132</b> | <b>0</b> | <b>2 165</b> |

<sup>a</sup> Summary for Crown land only and includes timber supply areas and tree farm licences. Data derived from hand compiled TFL summaries and the Ministry of Forests' ISIS. Backlog NSR represents net NSR after deductions as per Appendix 3. The totals for Appendix 2 and Appendix 3 are generated from different ISIS queries. Small differences in totals are attributable to differences in rounding errors between the two queries.

## Appendix 2 Continued

### Nelson Forest Region – Summary of Backlog Not Satisfactorily Restocked Land<sup>a</sup>

#### Pre-1982 NSR by Site Class

| Management unit type,<br>number and location |                              | Site class         |              |            |            |              |
|----------------------------------------------|------------------------------|--------------------|--------------|------------|------------|--------------|
|                                              |                              | Good               | Medium       | Poor       | Low        | Total        |
|                                              |                              | (area in hectares) |              |            |            |              |
| <b>TSA</b>                                   | 1 Arrow                      | 76                 | 199          | 108        | 0          | 383          |
|                                              | 2 Boundary                   | 0                  | 8            | 0          | 0          | 8            |
|                                              | 5 Cranbrook                  | 44                 | 781          | 17         | 23         | 865          |
|                                              | 7 Golden <sup>b</sup>        | 310                | 609          | 393        | 0          | 1 312        |
|                                              | 9 Invermere                  | 0                  | 173          | 0          | 0          | 173          |
|                                              | 13 Kootenay Lake             | 19                 | 654          | 22         | 0          | 695          |
|                                              | 27 Revelstoke                | 24                 | 39           | 0          | 0          | 63           |
| <b>Total TSA</b>                             |                              | <b>473</b>         | <b>2 463</b> | <b>540</b> | <b>23</b>  | <b>3 499</b> |
| <b>TFL</b>                                   | 3 Little Slokan (Arrow)      | 0                  | 34           | 0          | 0          | 34           |
|                                              | 8 Boundary Creek             | 17                 | 294          | 16         | 0          | 327          |
|                                              | 14 Spillimacheen (Invermere) | 0                  | 4            | 0          | 0          | 4            |
|                                              | 23 Arrow Lakes (Revelstoke)  | 102                | 261          | 234        | 383        | 980          |
|                                              | 55 Selkirk                   | 61                 | 41           | 0          | 0          | 102          |
|                                              | 56 Goldstream                | 4                  | 0            | 0          | 0          | 4            |
| <b>Total TFL</b>                             |                              | <b>184</b>         | <b>634</b>   | <b>250</b> | <b>383</b> | <b>1 451</b> |
| <b>Total region</b>                          |                              | <b>657</b>         | <b>3 097</b> | <b>790</b> | <b>406</b> | <b>4 950</b> |

<sup>a</sup> Summary for Crown land only and includes timber supply areas and tree farm licences. Data derived from hand compiled TFL summaries and the Ministry of Forests' ISIS. Backlog NSR represents net NSR after deductions as per Appendix 3. The totals for Appendix 2 and Appendix 3 are generated from different ISIS queries. Small differences in totals are attributable to differences in rounding errors between the two queries.

<sup>b</sup> An estimated 900 hectares of fire-origin pre-1982 backlog NSR in the Golden TSA is expected to be reclassified as SR when the sites can be accessed for surveying.

## Appendix 2 Continued

### Nelson Forest Region – Summary of Backlog Not Satisfactorily Restocked Land<sup>a</sup>

#### 1982–1987 NSR by Site Class

| Management unit type,<br>number and location | Site class |              |            |           |              |
|----------------------------------------------|------------|--------------|------------|-----------|--------------|
|                                              | Good       | Medium       | Poor       | Low       | Total        |
| (area in hectares)                           |            |              |            |           |              |
| <b>TSA</b>                                   |            |              |            |           |              |
| 1 Arrow                                      | 6          | 47           | 37         | 0         | 90           |
| 2 Boundary                                   | 0          | 17           | 0          | 0         | 17           |
| 5 Cranbrook                                  | 35         | 556          | 17         | 11        | 619          |
| 7 Golden                                     | 22         | 140          | 180        | 0         | 342          |
| 9 Invermere                                  | 11         | 210          | 52         | 0         | 273          |
| 13 Kootenay Lake                             | 9          | 60           | 17         | 0         | 86           |
| 27 Revelstoke                                | 0          | 25           | 0          | 0         | 25           |
| <b>Total TSA</b>                             | <b>83</b>  | <b>1 055</b> | <b>303</b> | <b>11</b> | <b>1 452</b> |
| <b>TFL</b>                                   |            |              |            |           |              |
| 3 Little Slokan (Arrow)                      | 35         | 0            | 3          | 0         | 38           |
| 8 Boundary Creek                             | 2          | 126          | 0          | 0         | 128          |
| 14 Spillimacheen (Invermere)                 | 0          | 0            | 0          | 0         | 0            |
| 23 Arrow Lakes (Revelstoke)                  | 65         | 276          | 18         | 0         | 359          |
| 55 Selkirk                                   | 35         | 5            | 0          | 0         | 40           |
| 56 Goldstream                                | 0          | 0            | 0          | 0         | 0            |
| <b>Total TFL</b>                             | <b>137</b> | <b>407</b>   | <b>21</b>  | <b>0</b>  | <b>565</b>   |
| <b>Total region</b>                          | <b>220</b> | <b>1 462</b> | <b>324</b> | <b>11</b> | <b>2 017</b> |

<sup>a</sup> Summary for Crown land only and includes timber supply areas and tree farm licences. Data derived from hand compiled TFL summaries and the Ministry of Forests' ISIS. Backlog NSR represents net NSR after deductions as per Appendix 3. The totals for Appendix 2 and Appendix 3 are generated from different ISIS queries. Small differences in totals are attributable to differences in rounding errors between the two queries.

## Appendix 2 Continued

### Prince George Forest Region – Summary of Backlog Not Satisfactorily Restocked Land<sup>a</sup>

#### Pre-1982 NSR by Site Class

| Management unit type,<br>number and location |                                 | Site class         |               |               |              |               |
|----------------------------------------------|---------------------------------|--------------------|---------------|---------------|--------------|---------------|
|                                              |                                 | Good               | Medium        | Poor          | Low          | Total         |
|                                              |                                 | (area in hectares) |               |               |              |               |
| <b>TSA</b>                                   | 8 Fort Nelson                   | 2 752              | 1 368         | 52            | 103          | 4 275         |
|                                              | 16 Mackenzie                    | 375                | 5 144         | 4 948         | 3 361        | 13 828        |
|                                              | 17 Robson Valley (McBride)      | 123                | 472           | 71            | 0            | 666           |
|                                              | 24 Prince George                | 3 493              | 7 936         | 2 201         | 7            | 13 637        |
|                                              | 40 Fort St. John                | 984                | 3 275         | 122           | 0            | 4 381         |
|                                              | 41 Dawson Creek                 | 223                | 4 433         | 3 395         | 0            | 8 051         |
| <b>Total TSA</b>                             |                                 | <b>7 950</b>       | <b>22 628</b> | <b>10 789</b> | <b>3 471</b> | <b>44 838</b> |
| <b>TFL</b>                                   | 30 Sinclair (N.E. of P. George) | 2 463              | 1 938         | 260           | 0            | 4 661         |
|                                              | 42 Tanizul (Fort St. James)     | 0                  | 1 220         | 0             | 0            | 1 220         |
|                                              | 48 Chetwynd                     | 0                  | 2 403         | 0             | 0            | 2 403         |
|                                              | 53 Naver                        | 654                | 0             | 0             | 0            | 654           |
| <b>Total TFL</b>                             |                                 | <b>3 117</b>       | <b>5 561</b>  | <b>260</b>    | <b>0</b>     | <b>8 938</b>  |
| <b>Total region</b>                          |                                 | <b>11 067</b>      | <b>28 189</b> | <b>11 049</b> | <b>3 471</b> | <b>53 776</b> |

<sup>a</sup> Summary for Crown land only and includes timber supply areas and tree farm licences. Data derived from hand compiled TFL summaries and the Ministry of Forests' ISIS. Backlog NSR represents net NSR after deductions as per Appendix 3. The totals for Appendix 2 and Appendix 3 are generated from different ISIS queries. Small differences in totals are attributable to differences in rounding errors between the two queries.

## Appendix 2 Continued

### Prince George Forest Region – Summary of Backlog Not Satisfactorily Restocked Land<sup>a</sup>

#### 1982–1987 NSR by Site Class

| Management unit type,<br>number and location |    | Site class                   |              |               |              |           |               |
|----------------------------------------------|----|------------------------------|--------------|---------------|--------------|-----------|---------------|
|                                              |    | Good                         | Medium       | Poor          | Low          | Total     |               |
| (area in hectares)                           |    |                              |              |               |              |           |               |
| <b>TSA</b>                                   | 8  | Fort Nelson                  | 1 053        | 3 328         | 423          | 62        | 4 866         |
|                                              | 16 | Mackenzie                    | 336          | 1 773         | 1 746        | 0         | 3 855         |
|                                              | 17 | Robson Valley (McBride)      | 13           | 271           | 55           | 0         | 339           |
|                                              | 24 | Prince George                | 646          | 2 232         | 124          | 0         | 3 002         |
|                                              | 40 | Fort St. John                | 307          | 4 962         | 1 303        | 0         | 6 572         |
|                                              | 41 | Dawson Creek                 | 87           | 3 003         | 5 391        | 0         | 8 481         |
| <b>Total TSA</b>                             |    |                              | <b>2 442</b> | <b>15 569</b> | <b>9 042</b> | <b>62</b> | <b>27 115</b> |
| <b>TFL</b>                                   | 30 | Sinclair (N.E. of P. George) | 50           | 287           | 47           | 0         | 384           |
|                                              | 42 | Tanizul (Fort St. James)     | 0            | 218           | 0            | 0         | 218           |
|                                              | 48 | Chetwynd                     | 0            | 267           | 0            | 0         | 267           |
|                                              | 53 | Naver                        | 105          | 0             | 0            | 0         | 105           |
| <b>Total TFL</b>                             |    |                              | <b>155</b>   | <b>772</b>    | <b>47</b>    | <b>0</b>  | <b>974</b>    |
| <b>Total region</b>                          |    |                              | <b>2 597</b> | <b>16 341</b> | <b>9 089</b> | <b>62</b> | <b>28 089</b> |

<sup>a</sup> Summary for Crown land only and includes timber supply areas and tree farm licences. Data derived from hand compiled TFL summaries and the Ministry of Forests' ISIS. Backlog NSR represents net NSR after deductions as per Appendix 3. The totals for Appendix 2 and Appendix 3 are generated from different ISIS queries. Small differences in totals are attributable to differences in rounding errors between the two queries.

## Appendix 2 Continued

### Prince Rupert Forest Region – Summary of Backlog Not Satisfactorily Restocked Land<sup>a</sup>

#### Pre-1982 NSR by Site Class

| Management unit type,<br>number and location |    | Site class          |        |       |       | Total |        |
|----------------------------------------------|----|---------------------|--------|-------|-------|-------|--------|
|                                              |    | Good                | Medium | Poor  | Low   |       |        |
| (area in hectares)                           |    |                     |        |       |       |       |        |
| <b>TSA</b>                                   | 3  | Bulkley             | 5      | 36    | 0     | 0     | 41     |
|                                              | 4  | Cassiar             | 275    | 369   | 1 782 | 0     | 2 426  |
|                                              | 10 | Kalum               | 970    | 938   | 1 123 | 0     | 3 031  |
|                                              | 12 | Kispiox             | 40     | 490   | 1 490 | 0     | 2 020  |
|                                              | 14 | Lakes               | 8      | 65    | 55    | 0     | 128    |
|                                              | 20 | Morice              | 0      | 715   | 0     | 0     | 715    |
|                                              | 21 | North Coast         | 420    | 487   | 206   | 0     | 1 113  |
|                                              | 42 | Cranberry           | 52     | 24    | 0     | 0     | 76     |
|                                              | 43 | Nass                | 42     | 441   | 2 709 | 0     | 3 192  |
| <b>Total TSA</b>                             |    |                     | 1 812  | 3 565 | 7 365 | 0     | 12 742 |
| <b>TFL</b>                                   | 1  | Port Edward (Kalum) | 0      | 45    | 0     | 0     | 45     |
|                                              | 25 | Naka                | 0      | 0     | 0     | 0     | 0      |
|                                              | 41 | Kitimat             | 0      | 0     | 0     | 0     | 0      |
| <b>Total TFL</b>                             |    |                     | 0      | 45    | 0     | 0     | 45     |
| <b>Total region</b>                          |    |                     | 1 812  | 3 610 | 7 365 | 0     | 12 787 |

<sup>a</sup> Summary for Crown land only and includes timber supply areas and tree farm licences. Data derived from hand compiled TFL summaries and the Ministry of Forests' ISIS. Backlog NSR represents net NSR after deductions as per Appendix 3. The totals for Appendix 2 and Appendix 3 are generated from different ISIS queries. Small differences in totals are attributable to differences in rounding errors between the two queries.



## Appendix 2 Continued

### Prince Rupert Forest Region – Summary of Backlog Not Satisfactorily Restocked Land<sup>a</sup>

#### 1982–1987 NSR by Site Class

| Management unit type,<br>number and location |                       | Site class         |              |            |           |              |
|----------------------------------------------|-----------------------|--------------------|--------------|------------|-----------|--------------|
|                                              |                       | Good               | Medium       | Poor       | Low       | Total        |
|                                              |                       | (area in hectares) |              |            |           |              |
| <b>TSA</b>                                   | 3 Bulkley             | 0                  | 0            | 0          | 0         | 0            |
|                                              | 4 Cassiar             | 0                  | 258          | 250        | 41        | 549          |
|                                              | 10 Kalum              | 34                 | 74           | 0          | 0         | 108          |
|                                              | 12 Kispiox            | 92                 | 159          | 43         | 0         | 294          |
|                                              | 14 Lakes              | 15                 | 130          | 10         | 0         | 155          |
|                                              | 20 Morice             | 130                | 113          | 235        | 0         | 478          |
|                                              | 21 North Coast        | 25                 | 148          | 14         | 0         | 187          |
|                                              | 42 Cranberry          | 28                 | 54           | 0          | 0         | 82           |
|                                              | 43 Nass               | 290                | 948          | 76         | 50        | 1 364        |
| <b>Total TSA</b>                             |                       | <b>614</b>         | <b>1 884</b> | <b>628</b> | <b>91</b> | <b>3 217</b> |
| <b>TFL</b>                                   | 1 Port Edward (Kalum) | 0                  | 43           | 5          | 0         | 48           |
|                                              | 25 Naka               | 0                  | 0            | 0          | 0         | 0            |
|                                              | 41 Kitimat            | 0                  | 0            | 0          | 0         | 0            |
| <b>Total TFL</b>                             |                       | <b>0</b>           | <b>43</b>    | <b>5</b>   | <b>0</b>  | <b>48</b>    |
| <b>Total region</b>                          |                       | <b>614</b>         | <b>1 927</b> | <b>633</b> | <b>91</b> | <b>3 265</b> |

<sup>a</sup> Summary for Crown land only and includes timber supply areas and tree farm licences. Data derived from hand compiled TFL summaries and the Ministry of Forests' ISIS. Backlog NSR represents net NSR after deductions as per Appendix 3. The totals for Appendix 2 and Appendix 3 are generated from different ISIS queries. Small differences in totals are attributable to differences in rounding errors between the two queries.

## Appendix 2 Continued

### Vancouver Forest Region – Summary of Backlog Not Satisfactorily Restocked Land<sup>a</sup>

#### Pre-1982 NSR by Site Class

| Management unit type,<br>number and location |    | Site class                           |           |              |            | Total     |              |
|----------------------------------------------|----|--------------------------------------|-----------|--------------|------------|-----------|--------------|
|                                              |    | Good                                 | Medium    | Poor         | Low        |           |              |
| (area in hectares)                           |    |                                      |           |              |            |           |              |
| <b>TSA</b>                                   | 19 | Mid-coast                            | 0         | 0            | 0          | 0         |              |
|                                              | 25 | Queen Charlotte                      | 0         | 0            | 0          | 0         |              |
|                                              | 30 | Fraser                               | 0         | 83           | 41         | 26        | 150          |
|                                              | 31 | Soo                                  | 0         | 219          | 55         | 0         | 274          |
|                                              | 33 | Kingcome                             | 9         | 28           | 66         | 0         | 103          |
|                                              | 37 | Strathcona                           | 0         | 0            | 0          | 0         | 0            |
|                                              | 38 | Arrowsmith                           | 0         | 100          | 13         | 0         | 113          |
|                                              | 39 | Sunshine Coast                       | 0         | 6            | 77         | 0         | 83           |
| <b>Total TSA</b>                             |    |                                      | 9         | 436          | 252        | 26        | 723          |
| <b>TFL</b>                                   | 6  | Quatsino (Port McNeill)              | 0         | 0            | 0          | 0         | 0            |
|                                              | 10 | Toba (Toba River)                    | 0         | 0            | 0          | 0         | 0            |
|                                              | 19 | Tahsis (Gold River)                  | 10        | 0            | 0          | 0         | 10           |
|                                              | 24 | Moresby (Q.C.I.)                     | 0         | 0            | 0          | 0         | 0            |
|                                              | 25 | Naka (Port McNeill)                  | 0         | 0            | 0          | 0         | 0            |
|                                              | 26 | Corporation of Mission               | 0         | 0            | 0          | 0         | 0            |
|                                              | 37 | Nimkish                              | 0         | 0            | 0          | 0         | 0            |
|                                              | 38 | Squamish (Squamish River)            | 0         | 0            | 0          | 0         | 0            |
|                                              | 39 | Haida (Powell River, all divisions)  | 0         | 0            | 0          | 0         | 0            |
|                                              | 43 | Fraser/Hanathko/Kingcome             | 0         | 0            | 0          | 0         | 0            |
|                                              | 44 | Alberni (Port Alberni)               | 0         | 1 151        | 16         | 0         | 1 167        |
|                                              | 45 | Cordera-Knight (all divisions)       | 0         | 0            | 0          | 0         | 0            |
|                                              | 46 | Maquinna (west coast, all divisions) | 0         | 0            | 0          | 0         | 0            |
|                                              | 47 | Duncan Bay (all divisions)           | 0         | 0            | 0          | 0         | 0            |
| <b>Total TFL</b>                             |    |                                      | 10        | 1 151        | 16         | 0         | 1 177        |
| <b>Total region</b>                          |    |                                      | <b>19</b> | <b>1 587</b> | <b>268</b> | <b>26</b> | <b>1 900</b> |

<sup>a</sup> Summary for Crown land only and includes timber supply areas and tree farm licences. Data derived from hand compiled TFL summaries and the Ministry of Forests' ISIS. Backlog NSR represents net NSR after deductions as per Appendix 3. The totals for Appendix 2 and Appendix 3 are generated from different ISIS queries. Small differences in totals are attributable to differences in rounding errors between the two queries.

## Appendix 2 Continued

### Vancouver Forest Region – Summary of Backlog Not Satisfactorily Restocked Land<sup>a</sup>

#### 1982–1987 NSR by Site Class

| Management unit type,<br>number and location | Site class                              |        |      |     |       |     |
|----------------------------------------------|-----------------------------------------|--------|------|-----|-------|-----|
|                                              | Good                                    | Medium | Poor | Low | Total |     |
| (area in hectares)                           |                                         |        |      |     |       |     |
| <b>TSA</b>                                   | 19 Mid-coast                            | 0      | 0    | 0   | 25    | 25  |
|                                              | 25 Queen Charlotte                      | 0      | 0    | 0   | 0     | 0   |
|                                              | 30 Fraser                               | 0      | 33   | 11  | 0     | 44  |
|                                              | 31 Soo                                  | 5      | 109  | 0   | 0     | 114 |
|                                              | 33 Kingcome                             | 14     | 32   | 37  | 0     | 83  |
|                                              | 37 Strathcona                           | 0      | 0    | 0   | 0     | 0   |
|                                              | 38 Arrowsmith                           | 0      | 42   | 0   | 0     | 42  |
|                                              | 39 Sunshine Coast                       | 0      | 0    | 0   | 0     | 0   |
| <b>Total TSA</b>                             |                                         | 19     | 216  | 48  | 25    | 308 |
| <b>TFL</b>                                   | 6 Quatsino (Port McNeill)               | 0      | 0    | 0   | 0     | 0   |
|                                              | 10 Toba (Toba River)                    | 0      | 0    | 0   | 0     | 0   |
|                                              | 19 Tahsis (Gold River)                  | 0      | 4    | 0   | 0     | 4   |
|                                              | 24 Moresby (Q.C.I.)                     | 0      | 0    | 0   | 0     | 0   |
|                                              | 25 Naka (Port McNeill)                  | 0      | 0    | 0   | 0     | 0   |
|                                              | 26 Corporation of Mission               | 0      | 0    | 0   | 0     | 0   |
|                                              | 37 Nimkish                              | 0      | 0    | 0   | 0     | 0   |
|                                              | 38 Squamish (Squamish River)            | 0      | 0    | 0   | 0     | 0   |
|                                              | 39 Haida (Powell River, all divisions)  | 0      | 0    | 0   | 0     | 0   |
|                                              | 43 Fraser/Hanathko/Kingcome             | 0      | 0    | 0   | 0     | 0   |
|                                              | 44 Alberni (Port Alberni)               | 0      | 341  | 0   | 0     | 341 |
|                                              | 45 Cordera–Knight (all divisions)       | 0      | 0    | 0   | 0     | 0   |
|                                              | 46 Maquinna (west coast, all divisions) | 0      | 0    | 0   | 0     | 0   |
|                                              | 47 Duncan Bay (all divisions)           | 0      | 0    | 0   | 0     | 0   |
| <b>Total TFL</b>                             |                                         | 0      | 345  | 0   | 0     | 345 |
| <b>Total region</b>                          |                                         | 19     | 561  | 48  | 25    | 653 |

<sup>a</sup> Summary for Crown land only and includes timber supply areas and tree farm licences. Data derived from hand compiled TFL summaries and the Ministry of Forests' ISIS. Backlog NSR represents net NSR after deductions as per Appendix 3. The totals for Appendix 2 and Appendix 3 are generated from different ISIS queries. Small differences in totals are attributable to differences in rounding errors between the two queries.

## Summary of Net-down Process for Backlog\* NSR

### Pre-1982

| Pre-1982<br>site class | Gross <sup>a</sup><br>area<br>(ha) | Area deducted                       |                                         |                                                |                                                |                                              |                           | TSA <sup>h</sup><br>net area<br>NSR<br>(ha) | TFL <sup>i</sup><br>net area<br>NSR<br>(ha) | Total <sup>j</sup><br>net area<br>NSR<br>(ha) | Total<br>net<br>good &<br>medium | Total<br>gross<br>good &<br>medium |
|------------------------|------------------------------------|-------------------------------------|-----------------------------------------|------------------------------------------------|------------------------------------------------|----------------------------------------------|---------------------------|---------------------------------------------|---------------------------------------------|-----------------------------------------------|----------------------------------|------------------------------------|
|                        |                                    | Inoper. <sup>b</sup><br>NSR<br>(ha) | Non-<br>clearcut <sup>c,d</sup><br>(ha) | NSR <12 yrs <sup>e</sup><br>>700 ws/ha<br>(ha) | NSR ≥12 yrs <sup>f</sup><br>>500 ws/ha<br>(ha) | Total <sup>g</sup> for<br>area <5 ha<br>(ha) | Total<br>area<br>deducted |                                             |                                             |                                               |                                  |                                    |
| <b>Province</b>        |                                    |                                     |                                         |                                                |                                                |                                              |                           |                                             |                                             |                                               |                                  |                                    |
| G                      | 18083                              | 1761                                | 1026                                    | 7                                              | 160                                            | 464                                          | 3418                      | 11300                                       | 3365                                        | 14665                                         | 55421                            | 78959                              |
| M                      | 60877                              | 12244                               | 5606                                    | 0                                              | 495                                            | 1775                                         | 20120                     | 32023                                       | 8734                                        | 40757                                         |                                  |                                    |
| P                      | 47080                              | 25018                               | 1422                                    | 15                                             | 15                                             | 409                                          | 26879                     | 19675                                       | 526                                         | 20201                                         |                                  |                                    |
| L                      | 4609                               | 626                                 | 59                                      | 0                                              | 0                                              | 20                                           | 705                       | 3521                                        | 383                                         | 3904                                          |                                  |                                    |
| <b>Total</b>           | <b>130649</b>                      | <b>39649</b>                        | <b>8113</b>                             | <b>22</b>                                      | <b>671</b>                                     | <b>2668</b>                                  | <b>51122</b>              | <b>66518</b>                                | <b>13008</b>                                | <b>79526</b>                                  |                                  |                                    |
| <b>Cariboo</b>         |                                    |                                     |                                         |                                                |                                                |                                              |                           |                                             |                                             |                                               |                                  |                                    |
| G                      | 1374                               | 174                                 | 39                                      | 0                                              | 141                                            | 56                                           | 410                       | 924                                         | 40                                          | 964                                           | 3660                             | 6001                               |
| M                      | 4627                               | 888                                 | 736                                     | 0                                              | 85                                             | 223                                          | 1932                      | 1567                                        | 1129                                        | 2696                                          |                                  |                                    |
| P                      | 1295                               | 405                                 | 225                                     | 0                                              | 6                                              | 65                                           | 701                       | 594                                         | 0                                           | 594                                           |                                  |                                    |
| L                      | 0                                  | 0                                   | 0                                       | 0                                              | 0                                              | 0                                            | 0                         | 0                                           | 0                                           | 0                                             |                                  |                                    |
| <b>Total</b>           | <b>7296</b>                        | <b>1467</b>                         | <b>1000</b>                             | <b>0</b>                                       | <b>231</b>                                     | <b>344</b>                                   | <b>3042</b>               | <b>3085</b>                                 | <b>1169</b>                                 | <b>4254</b>                                   |                                  |                                    |
| <b>Kamloops</b>        |                                    |                                     |                                         |                                                |                                                |                                              |                           |                                             |                                             |                                               |                                  |                                    |
| G                      | 260                                | 31                                  | 49                                      | 7                                              | 0                                              | 9                                            | 96                        | 151                                         | 14                                          | 165                                           | 1758                             | 3183                               |
| M                      | 2923                               | 235                                 | 825                                     | 0                                              | 83                                             | 187                                          | 1330                      | 1379                                        | 214                                         | 1593                                          |                                  |                                    |
| P                      | 1091                               | 621                                 | 295                                     | 0                                              | 0                                              | 35                                           | 952                       | 139                                         | 0                                           | 139                                           |                                  |                                    |
| L                      | 13                                 | 0                                   | 10                                      | 0                                              | 0                                              | 3                                            | 13                        | 0                                           | 0                                           | 0                                             |                                  |                                    |
| <b>Total</b>           | <b>4288</b>                        | <b>887</b>                          | <b>1180</b>                             | <b>7</b>                                       | <b>83</b>                                      | <b>234</b>                                   | <b>2391</b>               | <b>1669</b>                                 | <b>228</b>                                  | <b>1897</b>                                   |                                  |                                    |
| <b>Nelson</b>          |                                    |                                     |                                         |                                                |                                                |                                              |                           |                                             |                                             |                                               |                                  |                                    |
| G                      | 1273                               | 384                                 | 162                                     | 0                                              | 5                                              | 65                                           | 616                       | 473                                         | 184                                         | 657                                           | 3753                             | 8402                               |
| M                      | 7129                               | 2742                                | 932                                     | 0                                              | 70                                             | 289                                          | 4033                      | 2462                                        | 634                                         | 3096                                          |                                  |                                    |
| P                      | 2751                               | 1124                                | 743                                     | 0                                              | 9                                              | 86                                           | 1962                      | 539                                         | 250                                         | 789                                           |                                  |                                    |
| L                      | 459                                | 33                                  | 19                                      | 0                                              | 0                                              | 0                                            | 53                        | 23                                          | 383                                         | 406                                           |                                  |                                    |
| <b>Total</b>           | <b>11612</b>                       | <b>4283</b>                         | <b>1857</b>                             | <b>0</b>                                       | <b>84</b>                                      | <b>440</b>                                   | <b>6664</b>               | <b>3497</b>                                 | <b>1451</b>                                 | <b>4948</b>                                   |                                  |                                    |

continued...

## Pre-1982 (continued)

| Pre-1982 site class | Gross <sup>a</sup> area (ha) | Area deducted                 |                                  |                                          |                                          |             | Total <sup>g</sup> for area <5 ha (ha) | Total area deducted | TSA <sup>h</sup> net area NSR (ha) | TFL <sup>i</sup> net area NSR (ha) | Total <sup>j</sup> net area NSR (ha) | Total net good & medium | Total gross good & medium |
|---------------------|------------------------------|-------------------------------|----------------------------------|------------------------------------------|------------------------------------------|-------------|----------------------------------------|---------------------|------------------------------------|------------------------------------|--------------------------------------|-------------------------|---------------------------|
|                     |                              | Inoper. <sup>b</sup> NSR (ha) | Non-clearcut <sup>c,d</sup> (ha) | NSR <12 yrs <sup>e</sup> >700 ws/ha (ha) | NSR ≥12 yrs <sup>f</sup> >500 ws/ha (ha) |             |                                        |                     |                                    |                                    |                                      |                         |                           |
| Prince George       |                              |                               |                                  |                                          |                                          |             |                                        |                     |                                    |                                    |                                      |                         |                           |
| G                   | 12077                        | 262                           | 539                              | 0                                        | 6                                        | 221         | 1027                                   | 7933                | 3117                               | 11050                              | 39233                                | 44934                   |                           |
| M                   | 32857                        | 875                           | 2800                             | 0                                        | 228                                      | 771         | 4674                                   | 22622               | 5561                               | 28183                              |                                      |                         |                           |
| P                   | 13752                        | 2530                          | 60                               | 0                                        | 0                                        | 115         | 2705                                   | 10787               | 260                                | 11047                              |                                      |                         |                           |
| L                   | 3636                         | 164                           | 0                                | 0                                        | 0                                        | 0           | 164                                    | 3471                | 0                                  | 3471                               |                                      |                         |                           |
| <b>Total</b>        | <b>62322</b>                 | <b>3831</b>                   | <b>3399</b>                      | <b>0</b>                                 | <b>233</b>                               | <b>1107</b> | <b>8570</b>                            | <b>44814</b>        | <b>8938</b>                        | <b>53752</b>                       |                                      |                         |                           |
| Prince Rupert       |                              |                               |                                  |                                          |                                          |             |                                        |                     |                                    |                                    |                                      |                         |                           |
| G                   | 2998                         | 844                           | 237                              | 0                                        | 9                                        | 97          | 1187                                   | 1811                | 0                                  | 1811                               | 5413                                 | 14630                   |                           |
| M                   | 11632                        | 7486                          | 303                              | 0                                        | 9                                        | 232         | 8030                                   | 3558                | 45                                 | 3603                               |                                      |                         |                           |
| P                   | 27822                        | 20316                         | 98                               | 0                                        | 0                                        | 44          | 20458                                  | 7364                | 0                                  | 7364                               |                                      |                         |                           |
| L                   | 471                          | 428                           | 30                               | 0                                        | 0                                        | 13          | 471                                    | 0                   | 0                                  | 0                                  |                                      |                         |                           |
| <b>Total</b>        | <b>42924</b>                 | <b>29074</b>                  | <b>668</b>                       | <b>0</b>                                 | <b>18</b>                                | <b>386</b>  | <b>30146</b>                           | <b>12732</b>        | <b>45</b>                          | <b>12777</b>                       |                                      |                         |                           |
| Vancouver           |                              |                               |                                  |                                          |                                          |             |                                        |                     |                                    |                                    |                                      |                         |                           |
| G                   | 102                          | 65                            | 0                                | 0                                        | 0                                        | 17          | 83                                     | 9                   | 10                                 | 19                                 | 1605                                 | 1810                    |                           |
| M                   | 1708                         | 18                            | 10                               | 0                                        | 21                                       | 73          | 122                                    | 435                 | 1151                               | 1586                               |                                      |                         |                           |
| P                   | 368                          | 23                            | 0                                | 15                                       | 0                                        | 63          | 101                                    | 251                 | 16                                 | 267                                |                                      |                         |                           |
| L                   | 30                           | 0                             | 0                                | 0                                        | 0                                        | 4           | 4                                      | 26                  | 0                                  | 26                                 |                                      |                         |                           |
| <b>Total</b>        | <b>2208</b>                  | <b>107</b>                    | <b>10</b>                        | <b>15</b>                                | <b>21</b>                                | <b>157</b>  | <b>310</b>                             | <b>721</b>          | <b>1177</b>                        | <b>1898</b>                        |                                      |                         |                           |

\* Backlog – areas denuded prior to 1982.

<sup>a</sup> Column "Gross area" represents gross NSR as recorded in ISIS and hand compiled TFL submissions.

**Net-down Criteria:**

<sup>b</sup> Inoperable NSR refers to areas that are untreatable due to inaccessibility or uneconomical conditions.

<sup>c</sup> Refers to areas logged by the selection silviculture system and are assumed to regenerate naturally.

<sup>d</sup> Refers to areas logged by the shelterwood and seed tree silviculture systems and are also assumed to regenerate naturally.

<sup>e</sup> Includes all NSR areas with an average tree age of less than 12 years and stocking levels greater than 700 well-spaced trees per hectare, these areas now meet provincial minimum stocking standards.

<sup>f</sup> Includes all NSR areas with an average tree age of more than 12 years and stocking levels greater than 500 well-spaced stems per hectare, these areas are considered a low priority for treatment.

<sup>g</sup> Includes all NSR areas less than 5 hectares in size, these areas will regenerate naturally or are considered a low priority for treatment or uneconomic for treatment.

<sup>h</sup> ISIS was used to generate net TSA backlog NSR statistics for all regions and were current to February 22, 1997.

<sup>i</sup> Tree farm license NSR was derived from hand compiled backlog NSR submissions.

<sup>j</sup> Column "Total net area" represents the net NSR after deductions.

Summary of Net-down Process for Backlog\* NSR

1982-87

| 1982-87<br>site class | Gross <sup>a</sup><br>area<br>(ha) | Area deducted                       |                                         |                                                |                                                |                                              |                           | TSA <sup>h</sup><br>net area<br>NSR<br>(ha) | TFL <sup>i</sup><br>net area<br>NSR<br>(ha) | Total <sup>j</sup><br>net area<br>NSR<br>(ha) | Total net<br>good, med.,<br>& poor | Total gross<br>good, med.,<br>& poor |
|-----------------------|------------------------------------|-------------------------------------|-----------------------------------------|------------------------------------------------|------------------------------------------------|----------------------------------------------|---------------------------|---------------------------------------------|---------------------------------------------|-----------------------------------------------|------------------------------------|--------------------------------------|
|                       |                                    | Inoper. <sup>b</sup><br>NSR<br>(ha) | Non-<br>clearcut <sup>c,d</sup><br>(ha) | NSR <12 yrs <sup>e</sup><br>>700 ws/ha<br>(ha) | NSR ≥12 yrs <sup>f</sup><br>>500 ws/ha<br>(ha) | Total <sup>g</sup> for<br>area <5 ha<br>(ha) | Total<br>area<br>deducted |                                             |                                             |                                               |                                    |                                      |
| <b>Province</b>       |                                    |                                     |                                         |                                                |                                                |                                              |                           |                                             |                                             |                                               |                                    |                                      |
| G                     | 6971                               | 1828                                | 492                                     | 0                                              | 28                                             | 373                                          | 2721                      | 3948                                        | 302                                         | 4250                                          | 40548                              | 59881                                |
| M                     | 35875                              | 7594                                | 2296                                    | 141                                            | 94                                             | 1561                                         | 11686                     | 22422                                       | 1767                                        | 24189                                         |                                    |                                      |
| P                     | 17035                              | 4008                                | 562                                     | 8                                              | 0                                              | 348                                          | 4925                      | 12037                                       | 73                                          | 12110                                         |                                    |                                      |
| L                     | 827                                | 598                                 | 19                                      | 0                                              | 0                                              | 3                                            | 620                       | 207                                         | 0                                           | 207                                           |                                    |                                      |
| Total                 | 60708                              | 14028                               | 3370                                    | 148                                            | 123                                            | 2284                                         | 19953                     | 38614                                       | 2142                                        | 40756                                         |                                    |                                      |
| <b>Cariboo</b>        |                                    |                                     |                                         |                                                |                                                |                                              |                           |                                             |                                             |                                               |                                    |                                      |
| G                     | 585                                | 0                                   | 112                                     | 0                                              | 0                                              | 87                                           | 200                       | 376                                         | 10                                          | 386                                           | 4545                               | 5672                                 |
| M                     | 3009                               | 95                                  | 261                                     | 29                                             | 34                                             | 305                                          | 724                       | 2126                                        | 160                                         | 2286                                          |                                    |                                      |
| P                     | 2077                               | 0                                   | 64                                      | 8                                              | 0                                              | 132                                          | 204                       | 1873                                        | 0                                           | 1873                                          |                                    |                                      |
| L                     | 21                                 | 0                                   | 0                                       | 0                                              | 0                                              | 3                                            | 3                         | 18                                          | 0                                           | 18                                            |                                    |                                      |
| Total                 | 5693                               | 95                                  | 437                                     | 37                                             | 34                                             | 527                                          | 1130                      | 4393                                        | 170                                         | 4563                                          |                                    |                                      |
| <b>Kamloops</b>       |                                    |                                     |                                         |                                                |                                                |                                              |                           |                                             |                                             |                                               |                                    |                                      |
| G                     | 750                                | 24                                  | 251                                     | 0                                              | 28                                             | 33                                           | 335                       | 415                                         | 0                                           | 415                                           | 2175                               | 3598                                 |
| M                     | 2556                               | 22                                  | 602                                     | 0                                              | 0                                              | 315                                          | 938                       | 1578                                        | 40                                          | 1618                                          |                                    |                                      |
| P                     | 292                                | 19                                  | 117                                     | 0                                              | 0                                              | 14                                           | 150                       | 142                                         | 0                                           | 142                                           |                                    |                                      |
| L                     | 0                                  | 0                                   | 0                                       | 0                                              | 0                                              | 0                                            | 0                         | 0                                           | 0                                           | 0                                             |                                    |                                      |
| Total                 | 3598                               | 65                                  | 970                                     | 0                                              | 28                                             | 361                                          | 1424                      | 2135                                        | 40                                          | 2175                                          |                                    |                                      |
| <b>Nelson</b>         |                                    |                                     |                                         |                                                |                                                |                                              |                           |                                             |                                             |                                               |                                    |                                      |
| G                     | 815                                | 440                                 | 100                                     | 0                                              | 0                                              | 54                                           | 595                       | 83                                          | 137                                         | 220                                           | 1988                               | 6983                                 |
| M                     | 4108                               | 1260                                | 1233                                    | 0                                              | 0                                              | 170                                          | 2664                      | 1037                                        | 407                                         | 1444                                          |                                    |                                      |
| P                     | 2060                               | 1312                                | 375                                     | 0                                              | 0                                              | 49                                           | 1736                      | 303                                         | 21                                          | 324                                           |                                    |                                      |
| L                     | 30                                 | 0                                   | 19                                      | 0                                              | 0                                              | 0                                            | 19                        | 11                                          | 0                                           | 11                                            |                                    |                                      |
| Total                 | 7013                               | 3012                                | 1728                                    | 0                                              | 0                                              | 273                                          | 5014                      | 1434                                        | 565                                         | 1999                                          |                                    |                                      |

continued...

59

## 1982–87 (continued)

| 1982–87<br>site class | Gross <sup>a</sup><br>area<br>(ha) | Area deducted                       |                                         |                                                |                                                |                                              |                           | T.S.A. <sup>h</sup><br>net area<br>NSR<br>(ha) | T.F.L. <sup>i</sup><br>net area<br>NSR<br>(ha) | Total <sup>j</sup><br>net area<br>NSR<br>(ha) | Total net<br>good, med.,<br>& poor | Total gross<br>good, med.,<br>& poor |
|-----------------------|------------------------------------|-------------------------------------|-----------------------------------------|------------------------------------------------|------------------------------------------------|----------------------------------------------|---------------------------|------------------------------------------------|------------------------------------------------|-----------------------------------------------|------------------------------------|--------------------------------------|
|                       |                                    | Inoper. <sup>b</sup><br>NSR<br>(ha) | Non-<br>clearcut <sup>c,d</sup><br>(ha) | NSR <12 yrs <sup>e</sup><br>>700 ws/ha<br>(ha) | NSR ≥12 yrs <sup>f</sup><br>>500 ws/ha<br>(ha) | Total <sup>g</sup> for<br>area <5 ha<br>(ha) | Total<br>area<br>deducted |                                                |                                                |                                               |                                    |                                      |
| <b>Prince George</b>  |                                    |                                     |                                         |                                                |                                                |                                              |                           |                                                |                                                |                                               |                                    |                                      |
| G                     | 4067                               | 1318                                | 9                                       | 0                                              | 0                                              | 144                                          | 1470                      | 2442                                           | 155                                            | 2597                                          | 28057                              | 34882                                |
| M                     | 21390                              | 4259                                | 99                                      | 52                                             | 60                                             | 550                                          | 5020                      | 15598                                          | 772                                            | 16370                                         |                                    |                                      |
| P                     | 9425                               | 227                                 | 0                                       | 0                                              | 0                                              | 108                                          | 335                       | 9043                                           | 47                                             | 9090                                          |                                    |                                      |
| L                     | 486                                | 424                                 | 0                                       | 0                                              | 0                                              | 0                                            | 424                       | 62                                             | 0                                              | 62                                            |                                    |                                      |
| Total                 | 35368                              | 6229                                | 108                                     | 52                                             | 60                                             | 801                                          | 7249                      | 27145                                          | 974                                            | 28119                                         |                                    |                                      |
| <b>Prince Rupert</b>  |                                    |                                     |                                         |                                                |                                                |                                              |                           |                                                |                                                |                                               |                                    |                                      |
| G                     | 730                                | 46                                  | 20                                      | 0                                              | 0                                              | 50                                           | 116                       | 614                                            | 0                                              | 614                                           | 3156                               | 7979                                 |
| M                     | 4138                               | 1958                                | 101                                     | 27                                             | 0                                              | 141                                          | 2228                      | 1867                                           | 43                                             | 1910                                          |                                    |                                      |
| P                     | 3112                               | 2450                                | 0                                       | 0                                              | 0                                              | 30                                           | 2480                      | 627                                            | 5                                              | 632                                           |                                    |                                      |
| L                     | 265                                | 174                                 | 0                                       | 0                                              | 0                                              | 0                                            | 174                       | 91                                             | 0                                              | 91                                            |                                    |                                      |
| Total                 | 8244                               | 4628                                | 121                                     | 27                                             | 0                                              | 222                                          | 4998                      | 3199                                           | 48                                             | 3247                                          |                                    |                                      |
| <b>Vancouver</b>      |                                    |                                     |                                         |                                                |                                                |                                              |                           |                                                |                                                |                                               |                                    |                                      |
| G                     | 24                                 | 0                                   | 0                                       | 0                                              | 0                                              | 5                                            | 5                         | 19                                             | 0                                              | 19                                            | 628                                | 767                                  |
| M                     | 673                                | 0                                   | 0                                       | 33                                             | 0                                              | 80                                           | 112                       | 216                                            | 345                                            | 561                                           |                                    |                                      |
| P                     | 70                                 | 0                                   | 6                                       | 0                                              | 0                                              | 15                                           | 21                        | 48                                             | 0                                              | 48                                            |                                    |                                      |
| L                     | 25                                 | 0                                   | 0                                       | 0                                              | 0                                              | 0                                            | 0                         | 25                                             | 0                                              | 25                                            |                                    |                                      |
| Total                 | 792                                | 0                                   | 6                                       | 33                                             | 0                                              | 100                                          | 139                       | 308                                            | 345                                            | 653                                           |                                    |                                      |

\* Backlog – areas denuded between January 1, 1982 and October 1, 1987.

<sup>a</sup> Column "Gross area" represents gross NSR as recorded in ISIS and hand compiled TFL submissions.

**Net-down Criteria:**

<sup>b</sup> Inoperable NSR refers to areas that are untreatable due to inaccessibility or uneconomical conditions.

<sup>c</sup> Refers to areas logged by the selection silviculture system and are assumed to regenerate naturally.

<sup>d</sup> Refers to areas logged by the shelterwood and seed tree silviculture systems and are also assumed to regenerate naturally.

<sup>e</sup> Includes all NSR areas with an average tree age of less than 12 years and stocking levels greater than 700 well-spaced trees per hectare, these areas now meet provincial minimum stocking standards.

<sup>f</sup> Includes all NSR areas with an average tree age of more than 12 years and stocking levels greater than 500 well-spaced stems per hectare, these areas are considered a low priority for treatment.

<sup>g</sup> Includes all NSR areas less than 5 hectares in size, these areas will regenerate naturally or are considered a low priority for treatment or uneconomic for treatment.

<sup>h</sup> ISIS was used to generate net TSA backlog NSR statistics for all regions and were current to February 22, 1997.

<sup>i</sup> Tree farm license NSR was derived from hand compiled backlog NSR submissions.

<sup>j</sup> Column "Total net area" represents the net NSR after deductions.

## Appendix 4 Summary of Impeded Land by Forest Region and TSA

### Cariboo Forest Region – Summary of impeded<sup>a</sup> land

| TSA          | TSA name       | Gross not free growing pre-1987 <sup>b</sup> | 1982–1987      | 1970–1982      | Pre-1970 (FRDA funded) | Pre-1970 (not FRDA funded) | Total          |
|--------------|----------------|----------------------------------------------|----------------|----------------|------------------------|----------------------------|----------------|
| 23           | 100 Mile House | 60 512                                       | 33 819         | 20 046         | 734                    | 4258                       | 58 857         |
| 26           | Quesnel        | 96 798                                       | 54 128         | 34 426         | 5816                   | 1784                       | 96 154         |
| 29           | Williams Lake  | 200 565                                      | 64 685         | 78 707         | 13 033                 | 30 554                     | 186 979        |
| <b>Total</b> |                | <b>357 875</b>                               | <b>152 632</b> | <b>133 179</b> | <b>19 583</b>          | <b>36 596</b>              | <b>341 990</b> |

<sup>a</sup> Impeded land is satisfactorily restocked, operable area, but either not free growing or not declared free growing.

<sup>b</sup> Gross not free growing pre-1987 is the total not free growing area before deductions of NSR and net downs.

### Kamloops Forest Region – Summary of impeded<sup>a</sup> land

| TSA          | TSA name | Gross not free growing pre-1987 <sup>b</sup> | 1982–1987      | 1970–1982      | Pre-1970 (FRDA funded) | Pre-1970 (not FRDA funded) | Total          |
|--------------|----------|----------------------------------------------|----------------|----------------|------------------------|----------------------------|----------------|
| 11           | Kamloops | 139 152                                      | 41 158         | 59 568         | 7554                   | 20 300                     | 128 580        |
| 15           | Lillooet | 19 637                                       | 4339           | 5733           | 2323                   | 3368                       | 15 763         |
| 18           | Merritt  | 38 495                                       | 12 720         | 19 314         | 2785                   | 3590                       | 38 409         |
| 22           | Okanagan | 156 732                                      | 44 105         | 81 249         | 9047                   | 14 983                     | 149 384        |
| <b>Total</b> |          | <b>354 016</b>                               | <b>102 322</b> | <b>165 864</b> | <b>21 709</b>          | <b>42 241</b>              | <b>332 136</b> |

<sup>a</sup> Impeded land is satisfactorily restocked, operable area, but either not free growing or not declared free growing.

<sup>b</sup> Gross not free growing pre-1987 is the total not free growing area before deductions of NSR and net downs.



## Appendix 4 Continued

### Nelson Forest Region – Summary of impeded<sup>a</sup> land

| TSA          | TSA name      | Gross not free growing pre-1987 <sup>b</sup> | 1982–1987      | 1970–1982      | Pre-1970 (FRDA funded) | Pre-1970 (not FRDA funded) | Total          |
|--------------|---------------|----------------------------------------------|----------------|----------------|------------------------|----------------------------|----------------|
| 1            | Arrow         | 28 900                                       | 7756           | 13 047         | 3857                   | 2393                       | 27 053         |
| 2            | Boundary      | 27 123                                       | 14 943         | 9764           | 1327                   | 601                        | 26 635         |
| 5            | Cranbrook     | 96 052                                       | 35 623         | 40 325         | 4366                   | 14 898                     | 95 212         |
| 7            | Golden        | 59 027                                       | 10 623         | 33 507         | 3860                   | 5406                       | 53 396         |
| 9            | Invermere     | 71 338                                       | 38 711         | 18 681         | 7383                   | 4241                       | 69 016         |
| 13           | Kootenay Lake | 50 161                                       | 10 099         | 24 364         | 5042                   | 3495                       | 43 000         |
| 27           | Revelstoke    | 15 539                                       | 3014           | 6325           | 527                    | 517                        | 10 383         |
| <b>Total</b> |               | <b>348 140</b>                               | <b>120 769</b> | <b>146 013</b> | <b>26 362</b>          | <b>31 551</b>              | <b>324 695</b> |

<sup>a</sup> Impeded land is satisfactorily restocked, operable area, but either not free growing or not declared free growing.

<sup>b</sup> Gross not free growing pre-1987 is the total not free growing area before deductions of NSR and net downs.

### Prince George Forest Region – Summary of impeded<sup>a</sup> land

| TSA          | TSA name                | Gross not free growing pre-1987 <sup>b</sup> | 1982–1987      | 1970–1982      | Pre-1970 (FRDA funded) | Pre-1970 (not FRDA funded) | Total          |
|--------------|-------------------------|----------------------------------------------|----------------|----------------|------------------------|----------------------------|----------------|
| 8            | Fort Nelson             | 44 742                                       | 20 845         | 22 197         | 442                    | 431                        | 43 915         |
| 16           | Mackenzie               | 376 546                                      | 50 727         | 92 398         | 3163                   | 135 670                    | 281 958        |
| 17           | Robson Valley (McBride) | 19 899                                       | 9082           | 7069           | 650                    | 1986                       | 18 787         |
| 24           | Prince George           | 504 223                                      | 141 966        | 199 936        | 66 755                 | 79 901                     | 488 558        |
| 40           | Fort St. John           | 79 782                                       | 35 661         | 33 408         | 7164                   | 2978                       | 79 211         |
| 41           | Dawson Creek            | 85 849                                       | 35 369         | 35 740         | 2333                   | 10 375                     | 83 817         |
| <b>Total</b> |                         | <b>1 111 041</b>                             | <b>293 650</b> | <b>390 748</b> | <b>80 507</b>          | <b>231 341</b>             | <b>996 246</b> |

<sup>a</sup> Impeded land is satisfactorily restocked, operable area, but either not free growing or not declared free growing.

<sup>b</sup> Gross not free growing pre-1987 is the total not free growing area before deductions of NSR and net downs.

## Appendix 4 Continued

### Prince Rupert Forest Region – Summary of impeded<sup>a</sup> land

| TSA          | TSA name    | Gross not free growing pre-1987 <sup>b</sup> | 1982–1987      | 1970–1982     | Pre-1970 (FRDA funded) | Pre-1970 (not FRDA funded) | Total          |
|--------------|-------------|----------------------------------------------|----------------|---------------|------------------------|----------------------------|----------------|
| 3            | Bulkley     | 26 394                                       | 7805           | 9690          | 7573                   | 1090                       | 26 158         |
| 4            | Cassiar     | 74 480                                       | 31 174         | 997           | 852                    | 4800                       | 37 823         |
| 10           | Kalum       | 26 341                                       | 4576           | 12 499        | 3637                   | 2440                       | 23 152         |
| 12           | Kispiox     | 28 421                                       | 11 258         | 11 772        | 3634                   | 1316                       | 27 980         |
| 14           | Lakes       | 33 208                                       | 19 632         | 10 235        | 1192                   | 1928                       | 32 987         |
| 20           | Morice      | 50 040                                       | 24 176         | 18 614        | 4214                   | 954                        | 47 958         |
| 21           | North Coast | 30 551                                       | 4362           | 4862          | 1205                   | 16 088                     | 26 517         |
| 42           | Cranberry   | 5602                                         | 2314           | 1837          | 733                    | 698                        | 5582           |
| 43           | Nass        | 20 517                                       | 10 992         | 2037          | 25                     | 4259                       | 17 303         |
| <b>Total</b> |             | <b>295 554</b>                               | <b>116 289</b> | <b>72 543</b> | <b>23 055</b>          | <b>33 573</b>              | <b>245 460</b> |

<sup>a</sup> Impeded land is satisfactorily restocked, operable area, but either not free growing or not declared free growing.

<sup>b</sup> Gross not free growing pre-1987 is the total not free growing area before deductions of NSR and net downs.

### Vancouver Forest Region – Summary of impeded<sup>a</sup> land

| TSA          | TSA name        | Gross not free growing pre-1987 <sup>b</sup> | 1982–1987     | 1970–1982     | Pre-1970 (FRDA funded) | Pre-1970 (not FRDA funded) | Total          |
|--------------|-----------------|----------------------------------------------|---------------|---------------|------------------------|----------------------------|----------------|
| 19           | Mid-coast       | 8191                                         | 6367          | 1140          | 632                    | 53                         | 8192           |
| 25           | Queen Charlotte | 2858                                         | 2806          | 52            | 0                      | 0                          | 2858           |
| 30           | Fraser          | 59 215                                       | 14 966        | 18 090        | 21 794                 | 4080                       | 58 930         |
| 31           | Soo             | 22 147                                       | 5996          | 8097          | 5516                   | 2380                       | 21989          |
| 33           | Kingcome        | 21 157                                       | 8591          | 7072          | 3613                   | 1840                       | 21 116         |
| 37           | Strathcona      | 5481                                         | 5012          | 328           | 58                     | 26                         | 5424           |
| 38           | Arrowsmith      | 8271                                         | 4516          | 2617          | 795                    | 278                        | 8206           |
| 39           | Sunshine Coast  | 3228                                         | 1612          | 493           | 878                    | 164                        | 3147           |
| <b>Total</b> |                 | <b>130 548</b>                               | <b>49 866</b> | <b>37 889</b> | <b>33 286</b>          | <b>8821</b>                | <b>129 862</b> |

<sup>a</sup> Impeded land is satisfactorily restocked, operable area, but either not free growing or not declared free growing.

<sup>b</sup> Gross not free growing pre-1987 is the total not free growing area before deductions of NSR and net downs.

## Appendix 5 Glossary

---

### **Backlog NSR**

An area:

- from which the timber was harvested, damaged or destroyed before October 1, 1987, and
- that, in the district manager's opinion, is insufficiently stocked with healthy, well-spaced trees of a commercially acceptable species.

### **Current productive and available forest land**

The forest land base remaining after reductions are made for environmentally sensitive areas (ESAs) and the permanent forest land alienations anticipated over the next 20 years, (as per the 1984 *Forest and Range Resource Analysis*).

### **Gross backlog NSR**

Total backlog NSR before deductions.

### **Impeded area**

An area:

- from which the timber was harvested, damaged or destroyed before October 1, 1987, and
- that, in the district manager's opinion, is satisfactorily restocked with healthy, well-spaced trees of a commercially acceptable species, but not free growing or not declared free growing.

### **NC brush**

Non-commercial brush. Areas that have been 60% or more covered by brush one or more metres high.

### **Net NSR**

NSR remaining after deductions are made for areas that are uneconomic, inaccessible, inoperable, of poor or low site classes (NSR), are likely to naturally regenerate, or are satisfactorily restocked (SR) based on the backlog stocking standards.

### **Not stocked forest land**

Not stocked includes NSR areas on which forest stands have been disturbed by harvesting, wildfire or other causes and have not been restocked with sufficient trees of acceptable, commercial species. The area for NSR lands includes current and backlog (pre-1982 and 1982–1987) NSR. Also includes non-commercial areas with forest cover and non-commercial brush areas that have been 60% or more covered by brush one or more metres high.

### **NSR**

Not satisfactorily restocked. Forest lands that are not growing to their full potential due to an insufficient stocking of acceptable commercial tree species.

### **Productive forest land**

Forest land that is capable of producing a merchantable stand within a reasonable length of time.

### **Site class**

A measure of forest site productivity as determined by site index. In this publication, the site classes are good, medium, poor and low.

## Appendix 5 Continued

---

### **TFL**

Tree farm licence. Privately managed, area-based, sustained yield units in which the Crown adds forest land to the company's private holdings (if any), sufficient to provide a continuous supply of wood for an existing or planned mill.

### **Treatable NSR**

Represents the portion of net NSR that is potentially treatable given present management constraints.

### **TSA**

Timber supply area. An area of the province created by the Ministry of Forests for the purpose of analysis, planning and management of timber resources. Boundaries have been determined on the basis of present and expected population centres, transportation networks, manufacturing facilities and existing administrative boundaries.