

**Summary Report for the B.C. Ministry of Forests
Nelson Forest Region**

**For Invermere, Columbia, Arrow, Boundary, Kootenay Lake, and Cranbrook
Forest Districts**

Aerial Overview Survey 2000

Conducted for:

Art Stock, Forest Entomologist
Ministry of Forests, Nelson Forest Region
518 Lake Street
Nelson, BC V1L 4C6

Conducted by:

Marnie Duthie-Holt
Bugbusters Pest Management Inc.
Box 1750
Prince George, BC V2L 4V7

October 2000

Table of Contents

TABLE OF CONTENTS	2
LIST OF TABLES	2
LIST OF FIGURES	3
INTRODUCTION	4
SUMMARY OF AERIAL OVERVIEW SURVEYS	4
SURVEY RESULTS BY PEST SPECIES OR DAMAGE CODE	5
ENTIRE NELSON FOREST REGION SUMMARY	5
1.0 BARK BEETLES	5
2.0 DEFOLIATORS	6
3.0 DISEASES	6
4.0 OTHER FOREST HEALTH FACTORS	7
5.0 FOREST HEALTH AGENTS IN PROVINCIAL PARKS	8
INDIVIDUAL FOREST DISTRICT SUMMARY	13
1.0 BARK BEETLES.....	13
2.0 DEFOLIATORS.....	15
3.0 DISEASES.....	16
4.0 OTHER FOREST HEALTH FACTORS	17

List of Tables

Table 1. Summary of Aerial Surveys conducted for the Nelson Forest Region (by Bugbusters Pest Management Inc., Summer 2000).	4
Table 2. Summary of bark beetle pest agents by number of sites and hectares as recorded from aerial overview surveys in the Nelson Forest Region 2000.....	5
Table 3. Summary of defoliator pest agents by number of sites and hectares as recorded from aerial overview surveys in the Nelson Forest Region 2000.....	6
Table 4. Summary of disease pest agents by number of sites and hectares as recorded from aerial overview surveys in the Nelson Forest Region 2000.	6
Table 5. Summary of other forest health pest agents by number of sites and hectares as recorded from aerial overview surveys in the Nelson Forest Region 2000.....	7
Table 6. Summary of all forest health pest agents in Provincial Parks by number of sites and hectares as recorded from aerial overview surveys in the Nelson Forest Region 2000.	8
Table 7. Summary of bark beetle pest agents by number of sites and hectares by individual forest district (Nelson Region Aerial Overview Surveys 2000).	13
Table 8. Summary of defoliator pest agents by number of sites and hectares by individual forest district (Nelson Region Aerial Overview Surveys 2000).	15
Table 9. Summary of disease pest agents by number of sites and hectares by individual forest district (Nelson Region Aerial Overview Surveys 2000).	16
Table 10. Summary of other forest health pest agents by number of sites and hectares by individual forest district (Nelson Region Aerial Overview Surveys 2000).	17

List of Figures

Figure 1. IBM comparison of hectares infested recorded from aerial overview surveys for each of the forest districts in the Nelson Region in 1999 and 2000.	9
Figure 2. IBS comparison of hectares infested recorded from aerial overview surveys for each of the forest districts in the Nelson Region in 1999 and 2000.	9
Figure 3. IBB comparison of hectares infested recorded from aerial overview surveys for each of the forest districts in the Nelson Region in 1999 and 2000. Note: IBB was not mapped consistently from year to year.	10
Figure 4. IBD comparison of hectares infested recorded from aerial overview surveys for each of the forest districts in the Nelson Region in 1999 and 2000.	10
Figure 5. IBM comparison of number of sites infested recorded from aerial overview surveys for each of the forest districts in the Nelson Region in 1999 and 2000.	11
Figure 6. IBS comparison of number of sites infested recorded from aerial overview surveys for each of the forest districts in the Nelson Region in 1999 and 2000.	11
Figure 7. IBB comparison of number of sites infested recorded from aerial overview surveys for each of the forest districts in the Nelson Region in 1999 and 2000.	12
Figure 8. IBD comparison of number of sites infested recorded from aerial overview surveys for each of the forest districts in the Nelson Region in 1999 and 2000.	12

Introduction

Bugbusters Pest Management Inc. conducted aerial overview flights for the Invermere, Columbia, Arrow, and Boundary Forest Districts within the Nelson Forest Region for the 2000 season. The Ministry staff alone flew Cranbrook Forest District and Kootenay Lake Forest District was flown by another consultant. Detailed aerial surveys were also conducted for the Arrow Forest District and these numbers have been included in this report.

For the flights that were conducted by Bugbusters Pest Management Inc. surveyors accompanied Ministry of Forest staff on all aerial surveys. Marnie Duthie-Holt and Dave Boyle were the mapping surveyors. Flights were conducted between July 17 and August 8, 2000. There was no downtime due to weather over the course of the contract.

Summary of Aerial Overview Surveys

Table 1. Outlines the number of flight hours per district, surveyor, and date of survey.

Table 1. Summary of Aerial Surveys conducted for the Nelson Forest Region (by Bugbusters Pest Management Inc., Summer 2000).

Forest District	Main City	Surveyor	Mapping hours	# days*	Dates
Boundary	Grand Forks	Dave	6.00	1.50	24-Jul-00
Arrow	Castlegar	Dave	5.00	1.25	25-Jul-00
	Castlegar	Dave	2.50	0.63	26-Jul-00
Columbia	Revelstoke	Dave	6.00	1.50	21-Jul-00
	Golden	Marnie	4.00	1.00	9-Aug-00
Invermere	Invermere	Marnie	5.50	1.38	17-Jul-00
	Invermere	Marnie	7.75	1.94	18-Jul-00
	Invermere	Marnie	2.00	0.50	19-Jul-00

Total	38.75	9.69
--------------	--------------	-------------

*Number of survey days is based on a day = 4 flight mapping hours.

Pest codes were summarized in the following manner:

- Bark beetles
 - IBM Mountain pine beetles
 - IBS Spruce bark beetles
 - IBD Douglas-fir bark beetles
 - IBB Western Balsam bark beetles
 - IBW Western pine beetle
 - IBL Lodgepole pine beetle

- Defoliators
 - ID General defoliator
 - IDF Forest Tent Caterpillar
 - IDL Western Hemlock looper
 - IDN Birch leaf miner
 - IDU Satin Moth

- Disease Agents
 - DSB White pine blister rust

- DRB Black stain
- DFH Larch needle cast
- DFL Pine needle cast

- Other Forest Health Factors
- NB Bear
- ND Drought
- NF Flooding
- NW Windthrow/ Blowdown
- AP Porcupine

Survey Results By Pest Species or Damage Code

Entire Nelson Forest Region Summary

The following tables outline the summary of 2000 aerial overview surveys conducted for the entire Nelson Forest Region including Invermere, Columbia, Arrow, Boundary, Cranbrook, and Kootenay Lake Forest Districts. Arrow Forest District 2000 detailed aerial surveys results are also included in these numbers.

1.0 Bark Beetles

Table 2. Summary of bark beetle pest agents by number of sites and hectares as recorded from aerial overview surveys in the Nelson Forest Region 2000.

FHF	Severity	# of Sites	Total Poly Area (ha)	Total Spot Area (ha)	Total # trees	Total ha
IBB	L	301.00	17089.51	0.00	52.00	17089.51
	M	16.00	1451.15	0.00	0.00	1451.15
	S	139.00	81.97	29.65	784.00	111.62
	Total	456.00	18622.63	29.65	836.00	18652.28
IBD	L	481.00	3059.68	0.00	0.00	3059.68
	M	417.00	3626.51	0.00	0.00	3626.51
	S	1097.00	921.88	200.85	7180.00	1122.73
	Total	1995.00	7608.07	200.85	7180.00	7808.92
IBL	L	1.00	2.29	0.00	0.00	2.29
	Total	1.00	2.29	0.00	0.00	2.29
IBM	L	346.00	5459.93	0.00	0.00	5459.93
	M	242.00	3544.96	0.00	0.00	3544.96
	S	1100.00	847.52	201.45	6769.00	1048.97
	Total	1688.00	9852.41	201.45	6769.00	10053.86
IBS	L	6.00	108.76	0.00	0.00	108.76
	M	1.00	31.23		0.00	31.23
	S	1.00	0.00	0.30	1.00	0.30
	Total	8.00	139.99	0.30	1.00	140.29
IBW	S	2.00	0.00	0.20	24.00	0.20
	Total	2.00	0.00	0.20	24.00	0.20

2.0 Defoliators

Table 3. Summary of defoliator pest agents by number of sites and hectares as recorded from aerial overview surveys in the Nelson Forest Region 2000.

FHF	Severity	# of Sites	Total Poly Area (ha)	Total Spot Area (ha)	Total # trees	Total ha
ID	L	49.00	2856.25	0.00	0.00	2856.25
	M	7.00	59.27	0.00	0.00	59.27
	Total	56.00	2915.52	0.00	0.00	2915.52
IDB	S	4.00	0.00	1.00	40.00	1.00
	Total	4.00	0.00	1.00	40.00	1.00
IDL	L	4.00	389.18	0.00	0.00	389.18
	Total	4.00	389.18	0.00	0.00	389.18
IDU	L	1.00	18.13		0.00	18.13
	M	2.00	73.18		0.00	73.18
	Total	3.00	91.31	0.00	0.00	91.31
IDF	M	4.00	74.80	0.00	0.00	74.80
	S	2.00	9.00	0.00	0.00	9.00
	Total	6.00	83.80	0.00	0.00	83.80

Note: No defoliators were recorded in Arrow Forest District detailed surveys.

3.0 Diseases

Table 4. Summary of disease pest agents by number of sites and hectares as recorded from aerial overview surveys in the Nelson Forest Region 2000.

FHF	Severity	# of Sites	Total Poly Area (ha)	Total Spot Area (ha)	Total # trees	Total ha
DFL	L	40.00	3492.68		0.00	3492.68
	M	109.00	7227.42		0.00	7227.42
	S	4.00	232.49		0.00	232.49
	Total	153.00	10952.59	0.00	0.00	10952.59
DRB	L	4.00	3272.20		0.00	3272.20
	S	1.00		0.25	2.00	0.25
	Total	5.00	3272.20	0.25	2.00	3272.45
DSB	L	18.00	4013.12	0.00	0.00	4013.12
	M	1.00	7.91	0.00	0.00	7.91
	S	169.00	0.00	19.05	591.00	19.05
	Total	188.00	4021.03	19.05	591.00	4040.08

4.0 Other Forest Health Factors

Table 5. Summary of other forest health pest agents by number of sites and hectares as recorded from aerial overview surveys in the Nelson Forest Region 2000.

FHF	Severity	# of Sites	Total Poly Area (ha)	Total Spot Area (ha)	Total # trees	Total ha
AB	L	19.00	466.30	0.00	0.00	466.30
	M	1.00	137.55	0.00	0.00	137.55
	S	1.00	0.00	0.25	3.00	0.25
	Total	21.00	603.85	0.25	3.00	604.10
AP	L	2.00	54.02		0.00	54.02
	S	19.00		4.75	32.00	4.75
	Total	21.00	54.02	4.75	32.00	58.77
NB	L	3.00	42.45		0.00	42.45
	S	19.00	415.60	0.00	0.00	415.60
	Total	22.00	458.05	0.00	0.00	458.05
ND	L	2.00	518.15		0.00	518.15
	S	1.00		0.25	1.00	0.25
	Total	3.00	518.15	0.25	1.00	518.40
NF	S	2.00	9.12		0.00	9.12
	Total	2.00	9.12	0.00	0.00	9.12
NW	L	2.00	17.30		0.00	17.30
	S	28.00	380.03	0.00	0.00	380.03
	Total	30.00	397.33	0.00	0.00	397.33

5.0 Forest Health Agents in Provincial Parks

Table 6. Summary of all forest health pest agents in Provincial Parks by number of sites and hectares as recorded from aerial overview surveys in the Nelson Forest Region 2000.

FHF	Severity	# of Sites	Total Poly Area (ha)	Total Spot Area (ha)	Total # trees	Total ha
AP	S	2.00		0.50	2.00	0.50
	Total	2.00	0.00	0.50	2.00	0.50
DFL	L	8.00	1744.83		0.00	1744.83
	M	1.00	267.18		0.00	267.18
	S	4.00	232.49		0.00	232.49
	Total	13.00	2244.50	0.00	0.00	2244.50
DSB	L	1.00	95.10		0.00	95.10
	S	3.00		0.75	8.00	0.75
	Total	4.00	95.10	0.75	8.00	95.85
IBB	L	11.00	4797.36		0.00	4797.36
	M	2.00	50.13		0.00	50.13
	S	3.00		0.75	13.00	0.75
	Total	16.00	4847.49	0.75	13.00	4848.24
IBD	M	3.00	16.24		0.00	16.24
	S	12.00	16.03	3.25	185.00	19.28
	Total	15.00	32.27	3.25	185.00	35.52
IBM	S	7.00		1.75	39.00	1.75
	Total	7.00	0.00	1.75	39.00	1.75
ID	L	2.00	443.17		0.00	443.17
	Total	2.00	443.17	0.00	0.00	443.17

The following charts show the comparison of the amount of hectares and number of sites infested for IBM, IBS, IBD, and IBB bark beetle species for each of the forest districts in 1999 and 2000.

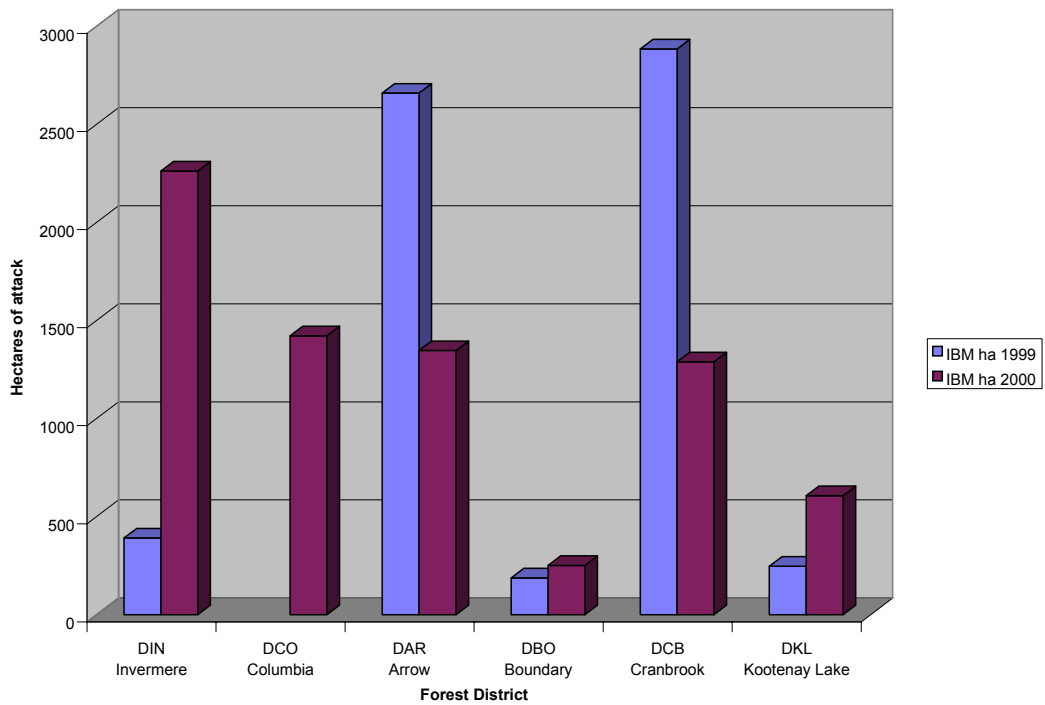


Figure 1. IBM comparison of hectares infested recorded from aerial overview surveys for each of the forest districts in the Nelson Region in 1999 and 2000.

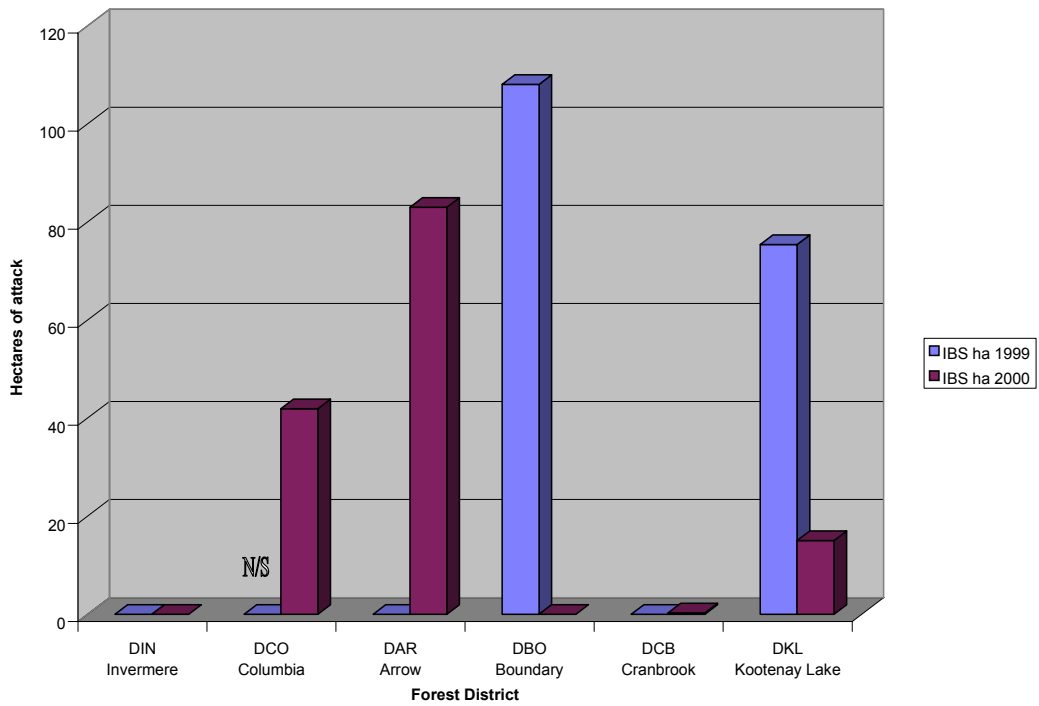


Figure 2. IBS comparison of hectares infested recorded from aerial overview surveys for each of the forest districts in the Nelson Region in 1999 and 2000.

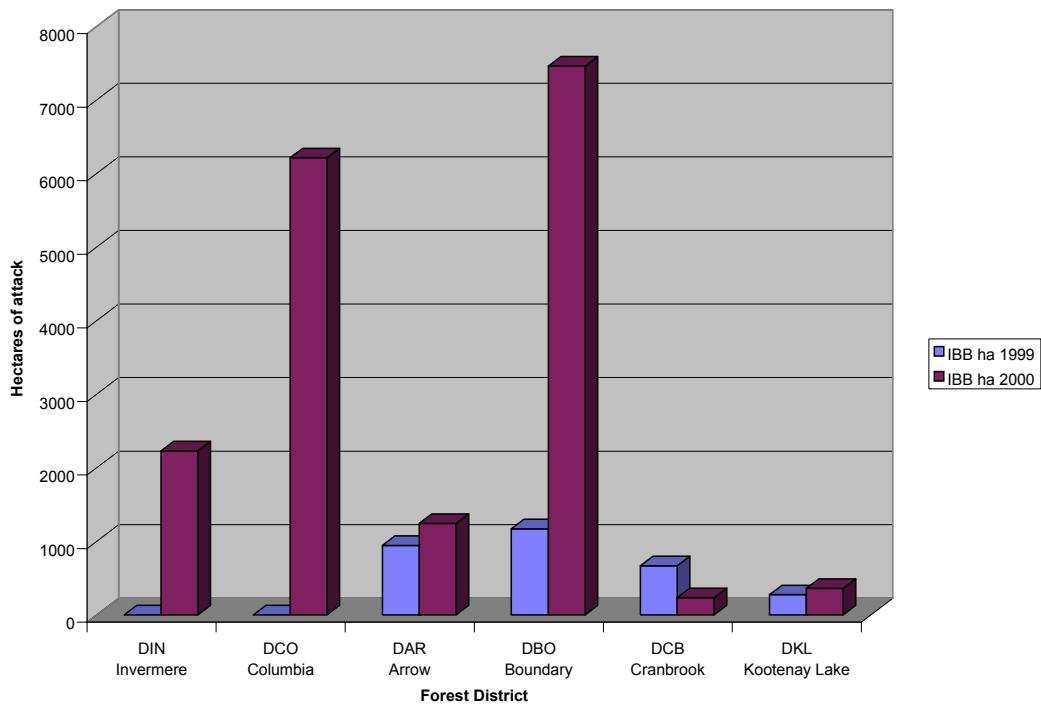


Figure 3. IBB comparison of hectares infested recorded from aerial overview surveys for each of the forest districts in the Nelson Region in 1999 and 2000. Note: IBB was not mapped consistently from year to year.

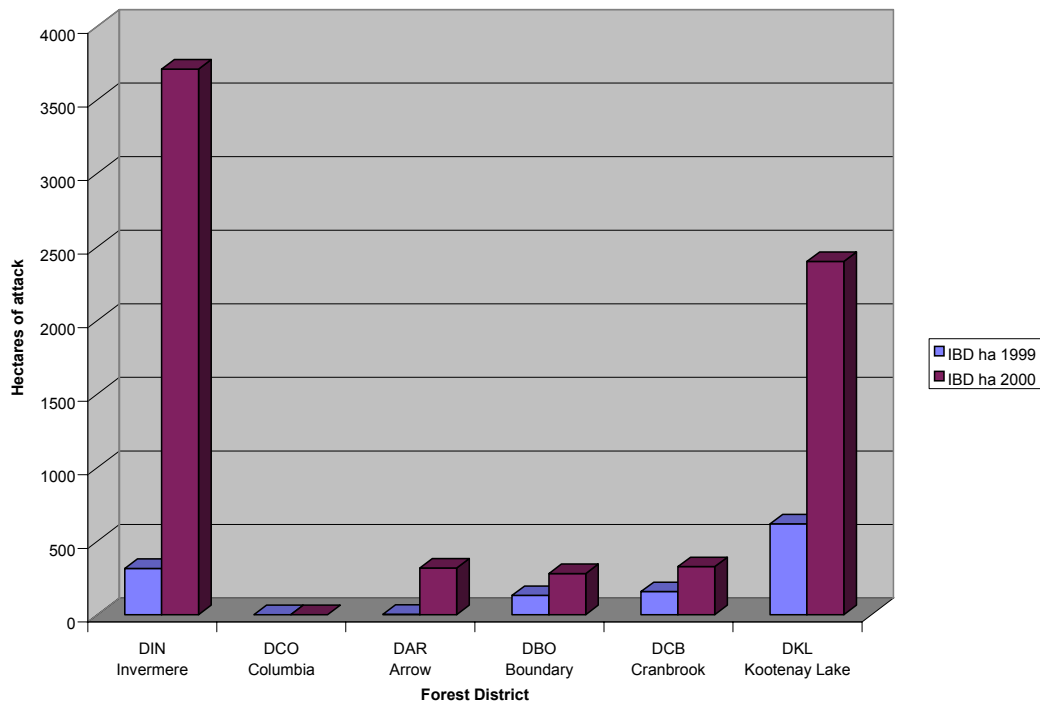


Figure 4. IBD comparison of hectares infested recorded from aerial overview surveys for each of the forest districts in the Nelson Region in 1999 and 2000.

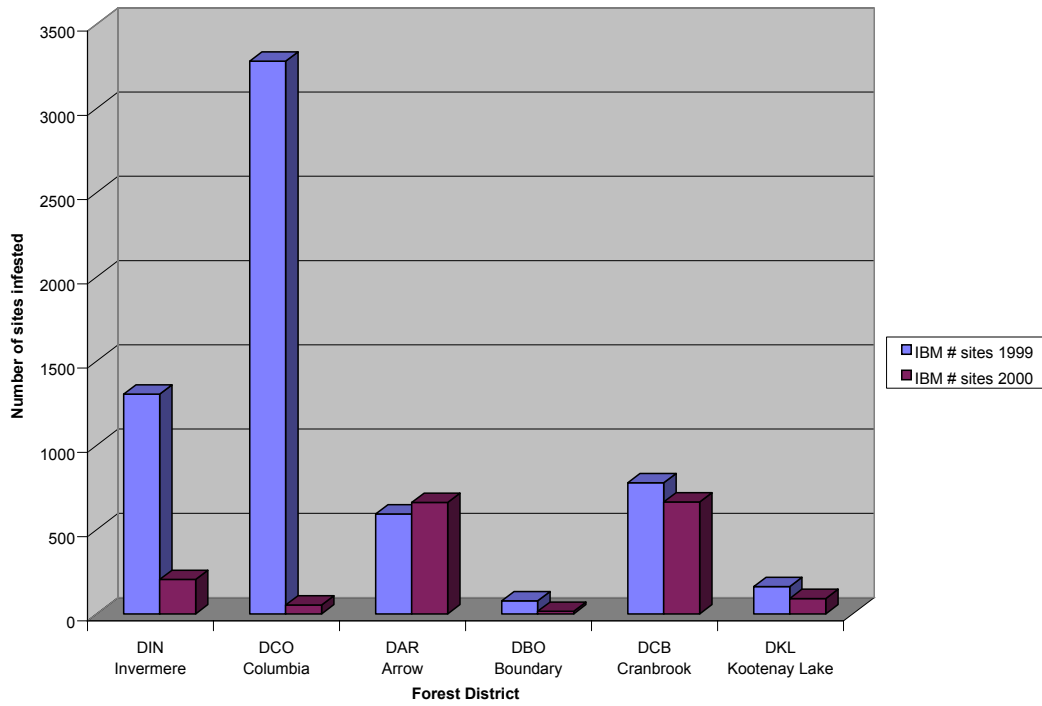


Figure 5. IBM comparison of number of sites infested recorded from aerial overview surveys for each of the forest districts in the Nelson Region in 1999 and 2000.

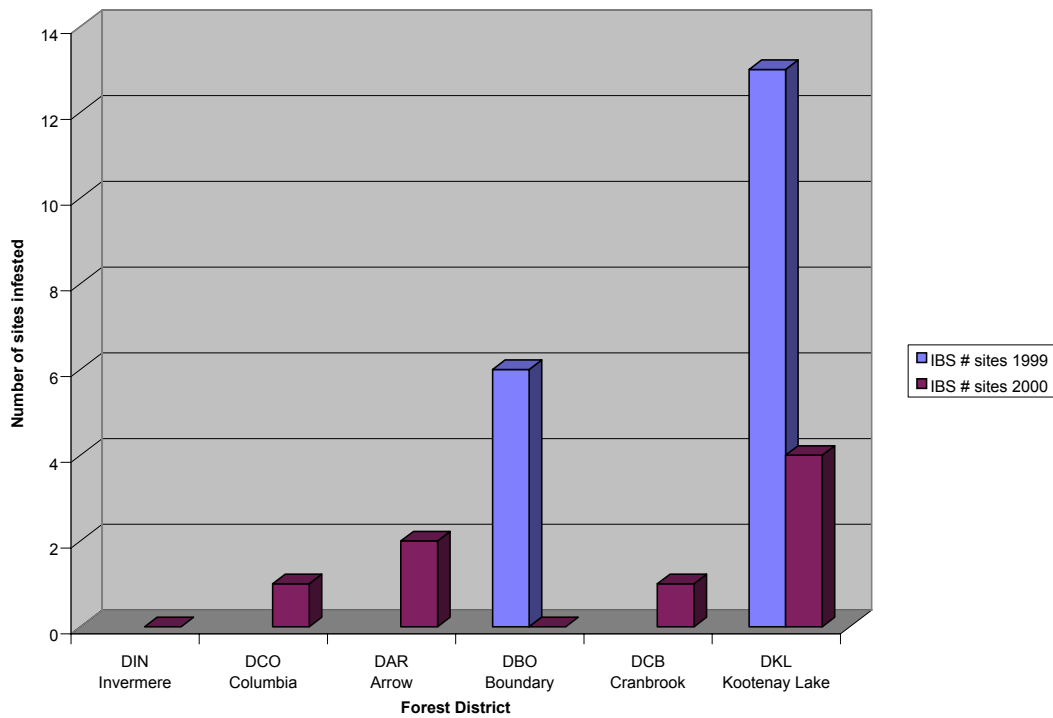


Figure 6. IBS comparison of number of sites infested recorded from aerial overview surveys for each of the forest districts in the Nelson Region in 1999 and 2000.

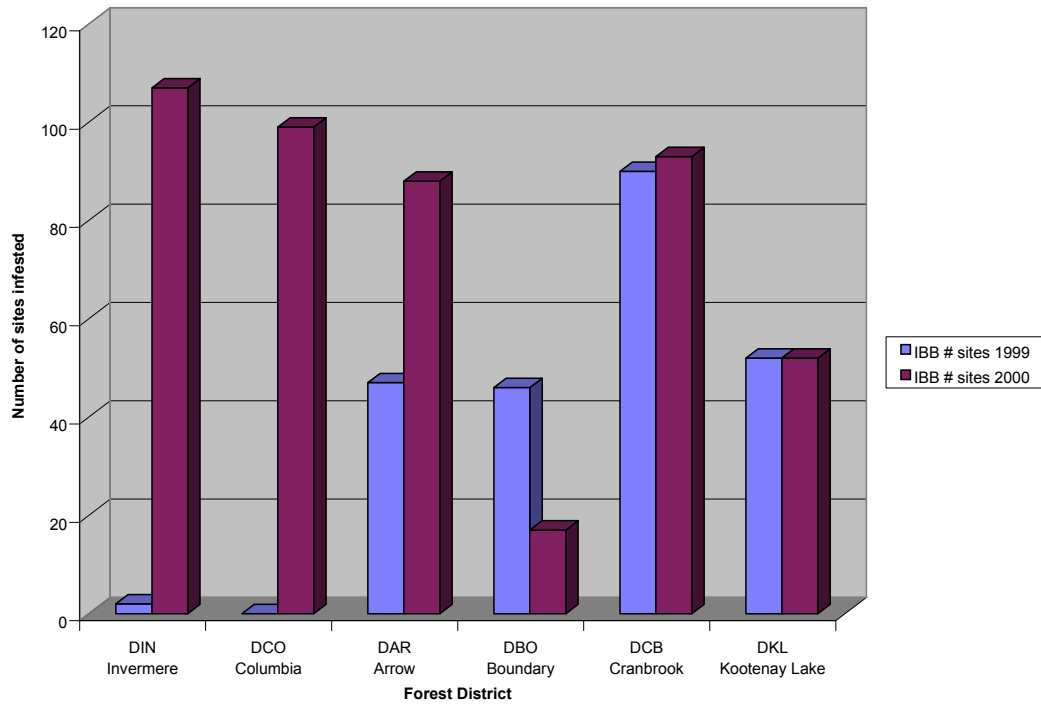


Figure 7. IBB comparison of number of sites infested recorded from aerial overview surveys for each of the forest districts in the Nelson Region in 1999 and 2000.

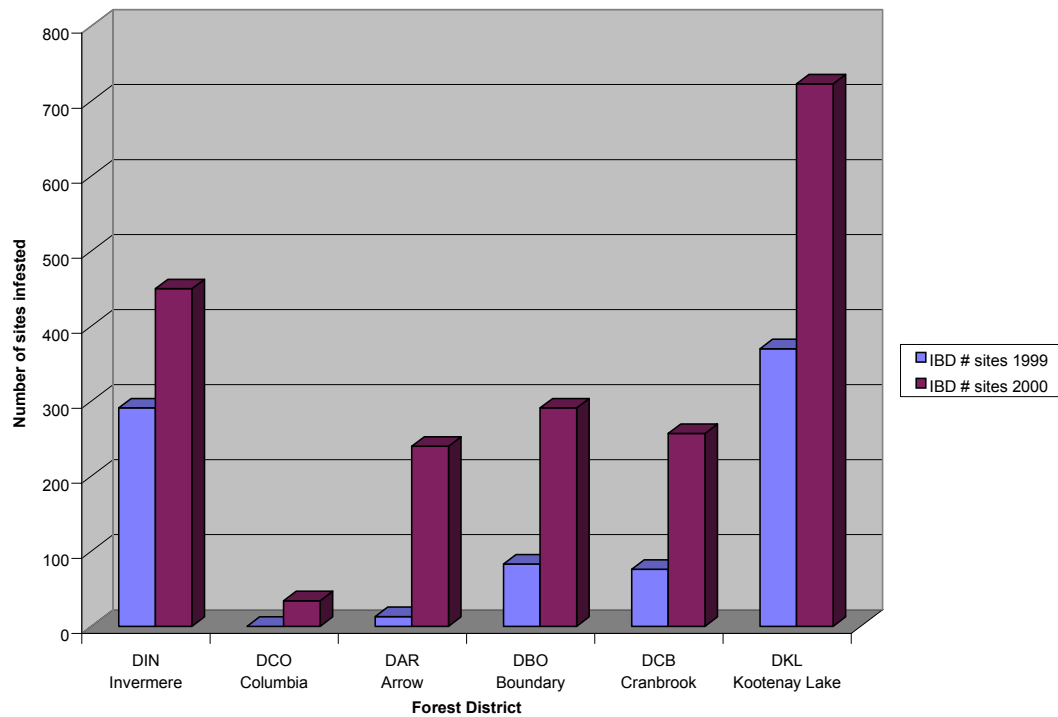


Figure 8. IBD comparison of number of sites infested recorded from aerial overview surveys for each of the forest districts in the Nelson Region in 1999 and 2000.

Individual Forest District Summary

The following tables outline the numbers of sites, total polygon and spot areas (hectares), total number of trees, and total area (hectares) by severity class for each individual forest district in the Nelson Forest Region for the 2000 aerial overview surveys. Arrow Forest District 2000 detailed aerial surveys are also included in these numbers.

1.0 Bark beetles

Table 7. Summary of bark beetle pest agents by number of sites and hectares by individual forest district (Nelson Region Aerial Overview Surveys 2000).

DISTRICT	FHF	Severity	# of Sites	Total Poly Area (ha)	Total Spot area (ha)	# of trees	Total ha	
DAR	IBB	L	22.00	1618.64		0.00	1618.64	
		M	6.00	443.41		0.00	443.41	
		S	60.00	81.97	9.90	648.00	91.87	
		Total	88.00	2144.02	9.90	648.00	2153.92	
	IBM	L	70.00	2408.13		0.00	2408.13	
		M	68.00	1252.35		0.00	1252.35	
		S	523.00	498.02	63.20	5774.00	561.22	
		Total	661.00	4158.50	63.20	5774.00	4221.70	
	IBS	L	1.00	51.77		0.00	51.77	
		M	1.00	31.23		0.00	31.23	
		Total	2.00	83.00	0.00	0.00	83.00	
	IBD	L	12.00	359.93		0.00	359.93	
		M	42.00	369.21		0.00	369.21	
		S	186.00	190.80	28.10	1730.00	218.90	
		Total	240.00	919.94	28.10	1730.00	948.04	
	IBW	S	2.00	0.00	0.20	24.00	0.20	
		Total	2.00	0.00	0.20	24.00	0.20	
	DBO	IBB	L	13.00	6564.20		0.00	6564.20
			M	4.00	895.48		0.00	895.48
Total			17.00	7459.68	0.00	0.00	7459.68	
IBM		L	3.00	224.32		0.00	224.32	
		S	12.00	24.88	2.25	65.00	27.13	
		Total	15.00	249.20	2.25	65.00	251.45	
IBD		S	291.00	204.23	76.00	3867.00	280.23	
		Total	291.00	204.23	76.00	3867.00	280.23	
DCO	IBB	L	85.00	6162.69		0.00	6162.69	
		M	2.00	50.13		0.00	50.13	
		S	12.00		3.00	65.00	3.00	
		Total	99.00	6212.82	3.00	65.00	6215.82	
	IBM	L	21.00	1231.54		0.00	1231.54	
		M	8.00	145.71		0.00	145.71	
		S	24.00	39.31	5.50	86.00	44.81	
		Total	53.00	1416.56	5.50	86.00	1422.06	
	IBS	L	1.00	41.94		0.00	41.94	
		Total	1.00	41.94	0.00	0.00	41.94	

	IBD	L	3.00	86.02		0.00	86.02
		M	2.00	41.51		0.00	41.51
		S	29.00	9.28	6.75	96.00	16.03
		Total	34.00	136.81	6.75	96.00	143.56
DIN	IBB	L	94.00	2172.29		0.00	2172.29
		M	3.00	53.77		0.00	53.77
		S	10.00		2.50	50.00	2.50
		Total	107.00	2226.06	2.50	50.00	2228.56
	IBM	L	38.00	498.12		0.00	498.12
		M	74.00	1460.23		0.00	1460.23
		S	92.00	285.31	18.25	306.00	303.56
		Total	204.00	2243.66	18.25	306.00	2261.91
	IBD	L	23.00	339.11		0.00	339.11
		M	290.00	2876.48		0.00	2876.48
		S	137.00	474.07	20.00	409.00	494.07
		Total	450.00	3689.66	20.00	409.00	3709.66
DKL	IBB	L	46.00	350.89	0.00	0.00	350.89
		M	1.00	8.36	0.00	0.00	8.36
		S	5.00	0.00	1.25	21.00	1.25
		Total	52.00	359.25	1.25	21.00	360.50
	IBM	L	48.00	560.92	0.00	0.00	560.92
		M	8.00	37.77	0.00	0.00	37.77
		S	35.00	0.00	8.75	124.00	8.75
		Total	91.00	598.70	8.75	124.00	607.45
	IBS	L	4.00	15.05	0.00	0.00	15.05
		Total	4.00	15.05	0.00	0.00	15.05
	IBD	L	382.00	2116.72	0.00	0.00	2116.72
		M	61.00	214.21	0.00	0.00	214.21
		S	280.00	0.00	70.00	904.00	70.00
		Total	723.00	2330.94	70.00	904.00	2400.94
	IBL	L	1.00	2.29	0.00	1.00	2.29
		Total	1.00	2.29	0.00	1.00	2.29
DCR	IBB	L	41.00	220.80	0.00	0.00	220.80
		S	52.00	0.00	13.00	52.00	13.00
		Total	93.00	220.80	13.00	52.00	233.80
	IBM	L	166.00	536.90	0.00	0.00	536.90
		M	84.00	648.90	0.00	0.00	648.90
		S	414.00	0.00	103.50	414.00	103.50
		Total	664.00	1185.80	103.50	414.00	1289.30
	IBS	S	1.00	0.00	0.30	1.00	0.30
		Total	1.00	0.00	0.30	1.00	0.30
	IBD	L	61.00	157.90	0.00	0.00	157.90
		M	22.00	125.10	0.00	0.00	125.10
		S	174.00	0.00	43.50	174.00	43.50
		Total	257.00	283.00	43.50	174.00	326.50

2.0 Defoliators

Table 8. Summary of defoliator pest agents by number of sites and hectares by individual forest district (Nelson Region Aerial Overview Surveys 2000).

DISTRICT	FHF	Severity	# of Sites	Total Poly Area (ha)	Total Spot area (ha)	# of trees	Total ha
DAR	IDB	S	3.00		0.75	30.00	0.75
		Total	3.00	0.00	0.75	30.00	0.75
DBO	IDB	S	1.00		0.25	10.00	0.25
		Total	1.00	0.00	0.25	10.00	0.25
DCO	ID	L	8.00	1645.85		0.00	1645.85
		Total	8.00	1645.85	0.00	0.00	1645.85
	IDL	L	4.00	389.18		0.00	389.18
		Total	4.00	389.18	0.00	0.00	389.18
	IDU	L	1.00	18.13		0.00	18.13
		M	2.00	73.18		0.00	73.18
Total		3.00	91.31	0.00	0.00	91.31	
DKL	ID	L	41.00	1210.40	0.00	0.00	1210.40
		M	7.00	59.27	0.00	0.00	59.27
		Total	48.00	1269.67	0.00	0.00	1269.67
DCB	IDF	M	4.00	74.80	0.00	0.00	74.80
		S	2.00	9.00	0.00	0.00	9.00
		Total	6.00	83.80	0.00	0.00	83.80

3.0 Diseases

Table 9. Summary of disease pest agents by number of sites and hectares by individual forest district (Nelson Region Aerial Overview Surveys 2000).

DISTRICT	FHF	Severity	# of Sites	Total Poly Area (ha)	Total Spot area (ha)	# of trees	Total ha
DAR	DSB	L	5.00	230.65		0.00	230.65
		S	140.00		11.80	536.00	11.80
		Total	145.00	230.65	11.80	536.00	242.45
DBO	DRB	L	4.00	3272.20		0.00	3272.20
		S	1.00		0.25	2.00	0.25
		Total	5.00	3272.20	0.25	2.00	3272.45
	DSB	L	6.00	3720.01		0.00	3720.01
		S	4.00		1.00	9.00	1.00
DCO	DSB	S	1.00		0.25	1.00	0.25
		Total	11.00	3720.01	1.25	10.00	3721.26
DIN	DFL	L	29.00	3379.18		0.00	3379.18
		M	26.00	1429.52		0.00	1429.52
		S	4.00	232.49		0.00	232.49
		Total	59.00	5041.19	0.00	0.00	5041.19
DKL	DSB	L	7.00	62.46	0.00	0.00	62.46
		M	1.00	7.91	0.00	0.00	7.91
		S	24.00	0.00	6.00	45.00	6.00
		Total	32.00	70.37	6.00	45.00	76.37
DCB	DFL	L	11.00	113.50	0.00	0.00	113.50
		M	83.00	5797.90	0.00	0.00	5797.90
		Total	94.00	5911.40	0.00	0.00	5911.40

4.0 Other Forest Health Factors

Table 10. Summary of other forest health pest agents by number of sites and hectares by individual forest district (Nelson Region Aerial Overview Surveys 2000).

DISTRICT	FHF	Severity	# of Sites	Total Poly Area (ha)	Total Spot area (ha)	# of trees	Total ha
DAR	NW	S	3.00	24.08			24.08
		Total	3.00	24.08			24.08
DBO	AB	L	1.00	114.07		0.00	114.07
		Total	1.00	114.07	0.00	0.00	114.07
	ND	L	2.00	518.15		0.00	518.15
		S	1.00		0.25	1.00	0.25
		Total	3.00	518.15	0.25	1.00	518.40
DCO	AP	L	1.00	49.07		0.00	49.07
		S	5.00		1.25	5.00	1.25
		Total	6.00	49.07	1.25	5.00	50.32
	NB	S	4.00	46.27		0.00	46.27
		Total	4.00	46.27	0.00	0.00	46.27
	NF	S	2.00	9.12		0.00	9.12
		Total	2.00	9.12	0.00	0.00	9.12
	NW	S	4.00	53.27		0.00	53.27
		Total	4.00	53.27	0.00	0.00	53.27
	DIN	AP	L	1.00	4.95		0.00
S			14.00		3.50	27.00	3.50
Total			15.00	4.95	3.50	27.00	8.45
NB		L	3.00	42.45		0.00	42.45
		Total	3.00	42.45	0.00	0.00	42.45
NW		L	2.00	17.30		0.00	17.30
		Total	2.00	17.30	0.00	0.00	17.30
DKL		AB	L	18.00	352.23	0.00	0.00
	M		1.00	137.55	0.00	0.00	137.55
	S		1.00	0.00	0.25	3.00	0.25
	Total		20.00	489.78	0.25	3.00	490.03
	NB	S	15.00	369.33	0.00	0.00	369.33
		Total	15.00	369.33	0.00	0.00	369.33
	NW	S	18.00	291.68	0.00	0.00	291.68
		Total	18.00	291.68	0.00	0.00	291.68
DCB	NW	S	3.00	11.00	0.00	0.00	11.00
		Total	3.00	11.00	0.00	0.00	11.00