

NUMBER OF CODE 1-4 ATTACK

6

PROBE LINE YES

SUMMARY OF CURRENT INFESTATION

Site is on edge of lake at base of large mountain. To the west, slope increases and site is located between sites MIS-0108 and site MIS-0107. Site MIS-0107 has similar findings, with attacked trees both Code 1 and 3 attack. Mean Larval and attack densities and 1 probe line determined a high Priority sanitation rating.

MODERATE/ HIGH ATTACK

ACCESS

Access from truck walk East 130m at 86 degrees

SITE FEATURES

(Topography, Terrain, Timber Types, Age)

Njo Major slope except in NE, Spruce 65%, Balsam 35%

SIZE, BOUNDARY and PATTERN OF INFESTATION

Fairly concentrated attack with hits all occurring around Node point center. Walked around attacked area and no other trees noticed. Further South along road, MIS-0108 had similar findings

INCIDENCE AND SEVERITY OF ATTACK

Moderate Larval density and sample tree was both Code 1 and 3 attack. Attack density likely moderate with Heavy Sanitation priority rating, (Large DBH Spruce)

RISK OF BEETLE SPREAD and SURROUNDING SITES

Moderate to heavy attack, isolated sites with good chances to move further east or south.

ACCESS, OPERABILITY and INTEGRATED RESOURCE MGMT ISSUES

No major slopes, to the northeast slope 0-50%, located with good access along lake.

RECOMMENDATIONS

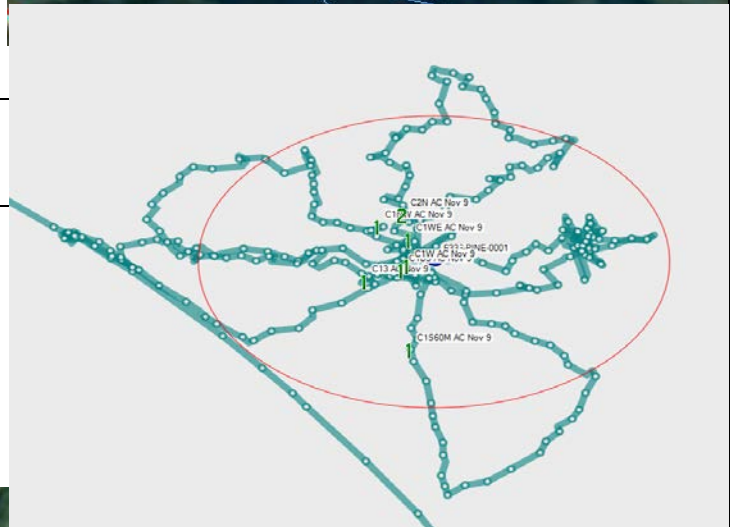
OPTION 1

TRAP TREES/ FALL AND BURN

Site has a high priority Sanitation rating from 1 probe line. Both MIS-0108 and PINE-0001 should be treated simultaneously. As they have good access and relatively flat, a trap tree trail should be added to minimize the flight as there are both Code 1 and 3 attack and one tree had beetle on a 1 year cycle. Alternatively, could fall and burn site- 10 trees, centered at node center

OPTION 1

HARVEST



Summary			
2016-PINE-0001		633	

TABLE 5- Spruce Beetle Infestation Summary Sheet

OF NOTE- Results taken from a 100m Probe Line

DIAMETER CLASS	SURFACE AREA FACTOR	NUMBER OF HEALTHY HOSTS	BARK BEETLE CODE BY YEAR OF ATTACK						OTHER TREE SPECIES
			2015		2014		2013		
			1	2	3	4	5	6	
17.5-25.0	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	3.3
25.1-30.0	5.3	0	0.0	0.0	0.0	0.0	0.0	0.0	15.9
30.1-35.0	7.1	7.1	0.0	0.0	0.0	0.0	0.0	0.0	7.1
35.1-40.0	9.4	18.8	9.4	0.0	0.0	0.0	0.0	0.0	18.8
40.1-45.0	11.6	23.2	0.0	0.0	0.0	0.0	0.0	0.0	11.6
45.1-50.0	13.8	13.8	13.8	0.0	0.0	0.0	0.0	0.0	0
50.1-55.0	16.2	16.2	0.0	0.0	0.0	0.0	0.0	0.0	0
55.1-60.0	18.7	37.4	0.0	0.0	0.0	0.0	0.0	0.0	0
60.1 +	25.3	75.9	25.3	0.0	0.0	0.0	0.0	0.0	0
TOTALS	244.2	195.7	48.5	0	0.0	0.0	0.0	0	56.7

TABLE 4- Spruce Beetle Attack Density and Larval Density Rating					
MEAN NO. OF ENTRANCE HOLES PER 225 cm2 PHLOEM SAMPLE	< 1 LOW Attack Density		MEAN NO. OF LIVING LARVAE PER 225 cm2 PHLOEM SAMPLE	< 4.9 LOW Mean Larval Density	
	1.0- 1.9 MOD Attack Density			5.0 - 14.9 MOD Mean Larval Density	
	2.0 - 3.9 HIGH Attack Density			15-24.9 HIGH Mean Larval Density	
	< 3.9 SEVERE Attack Density			>24.9 EXTREME Mean Larval Density	
0.00			5.00		

TABLE 2- Spruce Beetle Management Options after Walkthrough					
% 2016 ATTACK	19.9%	##	SANITATION AND SALVAGE HARVEST PRIORITY RATING		
% 2015 ATTACK	0.0%	##	LIGHT	0-599	1611.8
% 2014 ATTACK	0.0%	##	MODERATE	600-999	
% HOST IN STAND	81.2%	##	HEAVY	1000+	

SUMMARY OF ALL CARDS FS1111						NUMBER OF CARDS				1	
ACCESS -		Access from truck walk East 130m at 86 degrees									
SITE FEATURES -		Njo Major slope except in NE, Spruce 65%, Balsam 35%									
DIAMETER CLASS	SURFACE AREA FACTOR	NUMBER OF HEALTHY HOSTS	BARK BEETLE CODE BY YEAR OF ATTACK						OTHER TREE SPECIES		
			2015		2014		2013				
			1	2	3	4	5	6	BL	AT	
17.5-25.0	3.3	1	0	0	0	0	0	0	1	0	
25.1-30.0	5.3	0	0	0	0	0	0	0	3	0	
30.1-35.0	7.1	1	0	0	0	0	0	0	1	0	
35.1-40.0	9.4	2	1	0	0	0	0	0	2	0	
40.1-45.0	11.6	2	0	0	0	0	0	0	1	0	
45.1-50.0	13.8	1	1	0	0	0	0	0	0	0	
50.1-55.0	16.2	1	0	0	0	0	0	0	0	0	
55.1-60.0	18.7	2	0	0	0	0	0	0	0	0	
60.1 +	25.3	3	1	0	0	0	0	0	0	0	
TOTALS		13	3	0	0	0	0	0	8	0	
BARK SAMPLES 15 cm x 15 cm	NO. ENTRANCE HOLES	NO. PARENT ADULTS	NO. LARVAE	NO. PUPAE ADULTS	NO. CALLOW	FRESH (GREEN) BLOWDOWN					
						Attacked Yr		Yr	Unattacked		
2	0	2	10	0	3	0		0	0		
SIZE, BOUNDARY AND PATTERN OF THE INFESTATION											
Fairly concentrated attack with hits all occurring around Node point center. Walked around attacked area and no other trees noticed. Further South along road, MIS-0108 had similar findings											
INCIDENCE AND SEVERITY OF THE INFESTATION											
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RISK OF BEETLE SPREAD											
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ACCESS, OPERABILITY and INTEGRATED RESOURCE MANAGEMENT ISSUES											
No major slopes, to the northeast slope 0-50%, located with good access along lake.											

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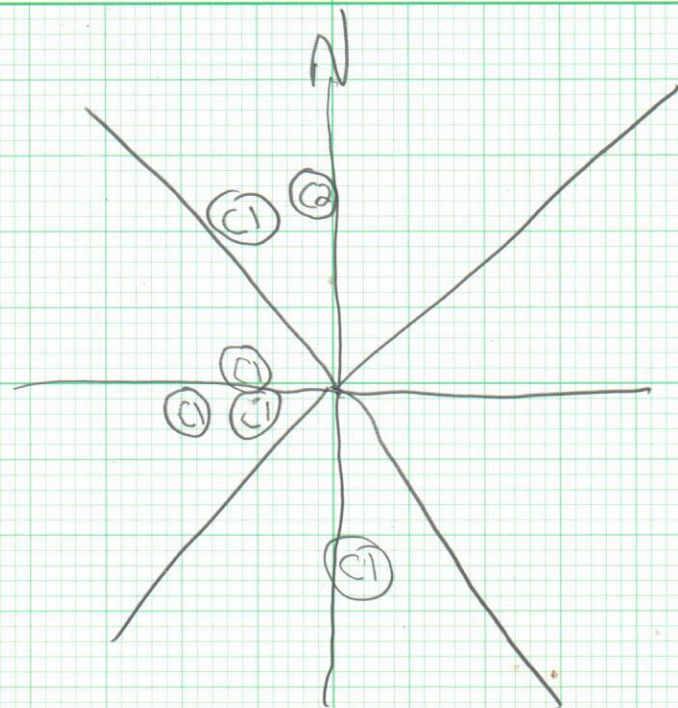
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SPRUCE BEETLE
PROBE CARD

LOCATION 533 west		1000523457 6139549		PAGE OF						
BEARING 270		DISTANCE 100 m		STRIP WIDTH 10 m						
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45.1 - 50.0	13.8									
50.1 - 55.0	16.2									
55.1 - 60.0	18.7									
60.1 +	25.3									
TOTALS		13	3						8	
BARK SAMPLES 15cm x 15cm	NO. ENTRANCE HOLES	NO. PARENT ADULTS	NO. LARVAE	NO. PUPAE	NO. CALLOW ADULTS	FRESH (GREEN) BLOWDOWN				
						Attacked	Unattacked			
North										
South										
COMMENTS ① - Bark Sample also code 3										
CREW NAMES Aaron Colebank						DATE 2006 11 09				



Access - quad @ 1000524599
6138484
truck @ 1000523457
6139549
533 Plot Centre - 1000524739
6138480
Aaron Colebank Nov 9th, 2006
North and east lines very steep!