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SPRUCE BARK BEETLE REPORT FH17DPG218

STAR PROBE# **2016-MIS-0059**

320

NUMBER OF CODE 1-4 ATTACK

6

PROBE LINE YES

SUMMARY OF CURRENT INFESTATION

Three grouped sites all with similar results. (MIS0058- 10 C1, 2 C5, MIS-0059- 6 C1, 5 C-5, MIS-060- 13 C1, 7 C5) All combined, from 3 probe lines sites have a moderate Sanitation priority rating with site MIS-0058 carrying a heavy rating. Site MIS0058 also had fresh silviculture flagging in site. All site have good access and are surrounded by plantations.

ACCESS

From truck, walk 200-300m into sites. All flat ground, heavy blowdown

SITE FEATURES (Topography, Terrain, Timber Types, Age)

Large DBH Spruce, Heavy blowdown, Flat ground, some areas wet. Plantations surround the sites. Overall 60% Spruce, 40% Balsam

SIZE, BOUNDARY and PATTERN OF INFESTATION

Moderate attack found with MIS0058- 10 C1, 2 C5, MIS-0059- 6 C1, 5 C-5, MIS-060- 13 C1, 7 C5 attacked trees. The sites have large DBH spruce trees and are fairly concentrated within sites on edges of plantations.

INCIDENCE AND SEVERITY OF ATTACK

Moderate attack densities and overall moderate sanitation priority rating between the three sites. (Site MIS-0058 Heavy rating, 0059,0060 Light Ratings)

RISK OF BEETLE SPREAD and SURROUNDING SITES

These three sites have good access with moderate attack. Attack can move east and northward and trees are on a 1 and 2 year cycle with large DBH trees in area. Moderate risk of beetle spread from these sites and only identified sites in area

ACCESS, OPERABILITY and INTEGRATED RESOURCE MGMT ISSUES

Edge of plantations, Site MIS-0058 has creek running through it, all flat, some wet areas.

RECOMMENDATIONS

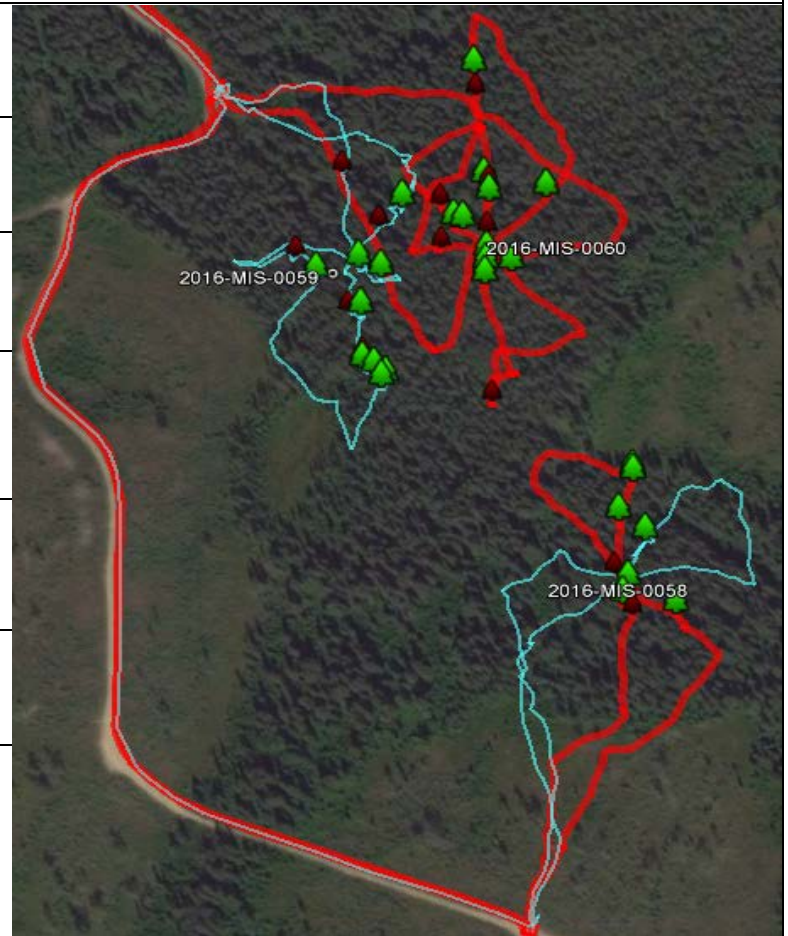
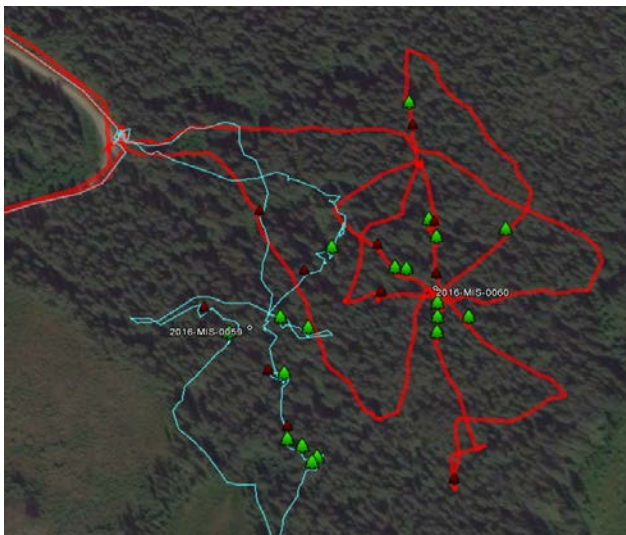
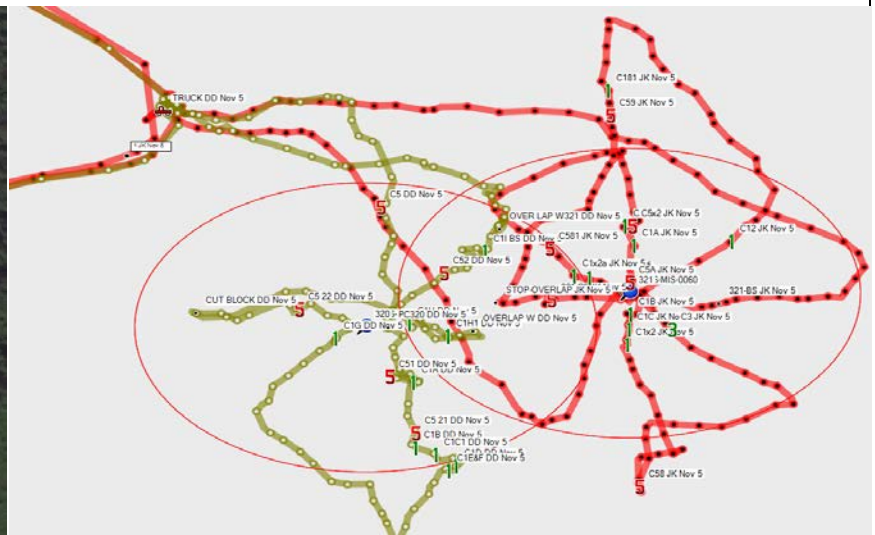
OPTION 1 TRAP TREES

As three sites with good access grouped together, it is best to treat the three together. A few trap tree trails could be utilized to capture any additional attack. As moderate attack density, may be more efficient to fall and burn sites however some large DBH Trees would make it wasteful. Much of the attack is on a 2 year cycle, although some of the beetle in area will fly in 2017.

OPTION 2 HARVEST

Although sanitation rating Moderate, good access sites that could be harvested in fall/ winter 2017.

MODERATE ATTACK



<p>SIZE, BOUNDARY AND PATTERN OF THE INFESTATION</p> <p>Moderate attack found with MIS0058- 10 C1, 2 C5, MIS-0059- 6 C1, 5 C-5, MIS-060- 13 C1, 7 C5 attacked trees. The sites have large DBH spruce trees and are fairly concentrated within sites on edges of plantations.</p> <p>INCIDENCE AND SEVERITY OF THE INFESTATION</p> <p>Moderate attack densities and overall moderate sanitation priority ratinf between the three sites. (Site MIS-0058 Heavy rating, 0059,0060 Light Ratings)</p> <p>RISK OF BEETLE SPREAD</p> <p>These three sites have good access with moderate attack. Attack can move east and northward and trees are on a 1 and 2 year cycle with large DBH trees in area. Moderate risk of beetle spread from these sites and only identified sites in area</p> <p>ACCESS, OPERABILITY and INTEGRATED RESOURCE MANAGEMENT ISSUES</p> <p>Edge os plantations, SiteMIS-0058 has creek running through it, all flat, some wet areas.</p>



Attack - C1 = 6
C5 = 5

Access - From truck, walk 200m @ 120°

Features - Heavy blow down in areas.
Large Sx. Moist ground.
66% Sx 33% Bl. flat ground

320

N

E

C1G BS

PC 320
C1H C1H
0514702
6099624

C1G

C1A
C5

C1B

C1D

EXTRA BARK SAMPLE DIA. 48
C1EE

140m

ENTRY	N	S
4	1	1
ADULT	1	0
PUPAE	2	0

AVG DIA. 40-50

70% Spruce 30% BALSAM

FLAT

METRIC FIELD

R.D. PENHALL LTD. MADE IN VANCOUVER, CANADA
DUKSBAL WATERPROOF

320 SPRUCE BEETLE PROBE CARD

LOCATION 6514713		6099582		PAGE 1 OF 1					
BEARING 180°		DISTANCE 100m		STRIP WIDTH 10m					
DIAMETER CLASS	SURFACE AREA FACTOR	NUMBER OF HEALTHY HOSTS	BARK BEETLE CODE BY YEAR OF ATTACK						OTHER TREE SPECIES
			1	2	3	4	5	6	
17.5 - 25.0	3.3								
25.1 - 30.0	5.3								
30.1 - 35.0	7.1	1							
35.1 - 40.0	9.4	1							
40.1 - 45.0	11.6	1							
45.1 - 50.0	13.8								
50.1 - 55.0	16.2								
55.1 - 60.0	18.7								
60.1 +	25.3								
TOTALS		10	1						5
BARK SAMPLES 15cm x 15cm	NO. ENTRANCE HOLES	NO. PARENT ADULTS	NO. LARVAE	NO. PUPAE	NO. CALLOW ADULTS	FRESH (GREEN) BLOWDOWN			
						Attacked	Unattacked		
N	4	1	1						
S	4	0	2						
COMMENTS: ① BARK SAMPLE - 66% spruce - FLAT GROUND - 33% balsam									
CREW NAMES DARLYL DORTHEE						DATE Y M D 16 11 5			