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SPRUCE BARK BEETLE REPORT FH17DPG218

STAR PROBE# **2016-PHI-0203** 356

NUMBER OF CODE 1-4 ATTACK 1

PROBE LINE YES

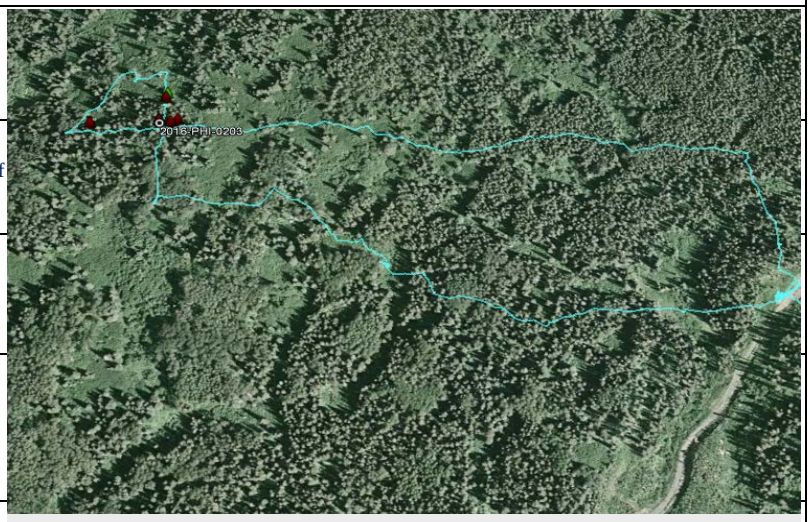
SUMMARY OF CURRENT INFESTATION

LIGHT ATTACK

Grouping of sites PHI-0196, 0197, 0203, 0204 and 0205. All sites grouped off of side road from mainline. Sites 0197, and 0203 had single attack around sites mixed with areas of older attack. All sites light sanitation priority ratings and are in areas with lower spruce volumes and wetter areas with thick patches of alder. Heavier Blowdown in 0197 and 0196 on edge of cutblock. No action required.

ACCESS

From truck, walk 200-800m to access sites. All sites on edge of older cutblocks,, 203 open stand



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

Minimal slopes in sites, accessed within 200-800m from spur road/ All sites edge of old cutblocks, except 0203 with open sparse stand. All sites wetter areas with patches of heavy alder.

SIZE, BOUNDARY and PATTERN OF INFESTATION

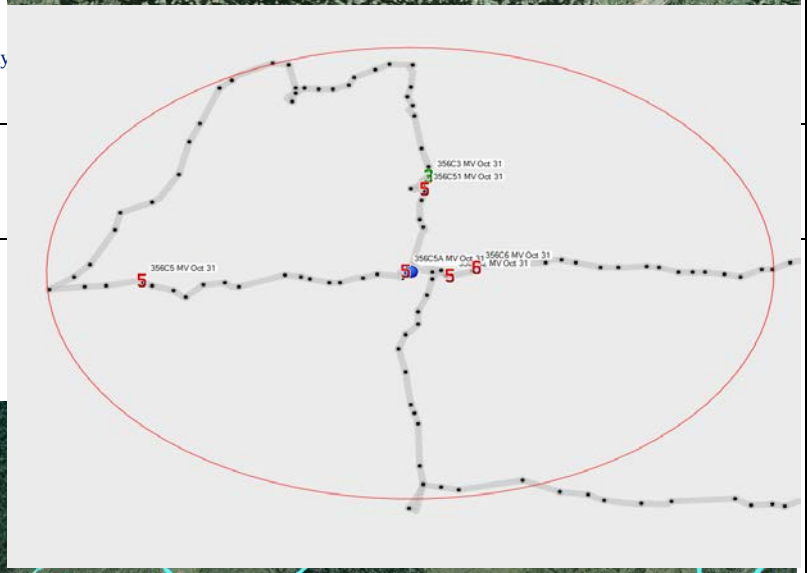
Light scattered current attack in 0197, and 0203 in amongst older code 5 attack. No pattern, just isolated attacks in wetter areas.

INCIDENCE AND SEVERITY OF ATTACK

Light scattered attack with low attack and larval densities and light priority rating.

RISK OF BEETLE SPREAD and SURROUNDING SITES

Minimal, sparse stands on edges of cutblocks and open stands and while there is attack, difficult to predict which direction coming or going from. Seems to be lightly scattered around wet areas.



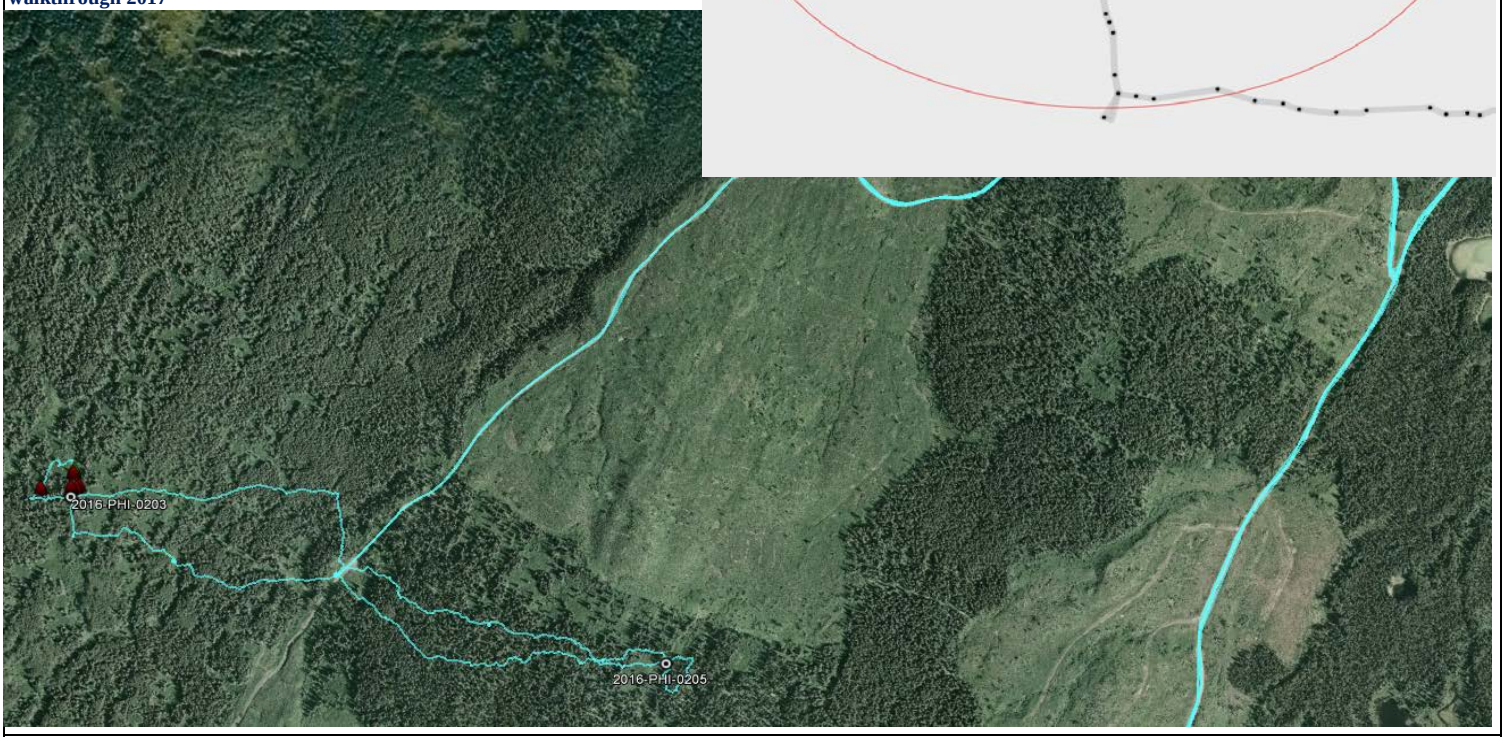
ACCESS, OPERABILITY and INTEGRATED RESOURCE MGMT ISSUES

From truck, walk 200-800m to sites. Sites on edge of old cutblocks.. Minimal slopes, wet areas throughout with alder patches and some heavier blowdown areas.

RECOMMENDATIONS

OPTION 1 **NO ACTION**

Light scattered with very low ratings. Low spruce component so attack will be concentrated if flight to a few trees. Poor access with light priority rating. Could fall and burn single trees, but lower attack densities. Monitor area, walkthrough 2017



Summary

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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	9.9	0.0	0.0	0.0	0.0	0.0	0.0	19.8
25.1-30.0	5.3	15.9	0.0	0.0	0.0	0.0	0.0	0.0	79.5
30.1-35.0	7.1	85.2	0.0	0.0	0.0	0.0	0.0	0.0	35.5
35.1-40.0	9.4	28.2	0.0	0.0	0.0	0.0	0.0	0.0	0
40.1-45.0	11.6	11.6	0.0	0.0	0.0	0.0	0.0	0.0	23.2
45.1-50.0	13.8	0	0.0	0.0	0.0	0.0	0.0	0.0	0
50.1-55.0	16.2	0	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	0	0.0	0.0	25.3	0.0	25.3	0.0	0
TOTALS	238.8	188.2	0.0	0	25.3	0.0	25.3	0	158

TABLE 4- Spruce Beetle Attack Density and Larval Density Rating

MEAN NO. OF ENTRANCE HOLES PER 225 cm2 PHLOEM SAMPLE		MEAN NO. OF LIVING LARVAE PER 225 cm2 PHLOEM SAMPLE	
	< 1 LOW Attack Density		< 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
1.00	< 3.9 SEVERE Attack Density	1.00	>24.9 EXTREME Mean Larval Density

TABLE 2- Spruce Beetle Management Options after Walkthrough

% 2016 ATTACK	0.0%	0.0	SANITATION AND SALVAGE HARVEST PRIORITY RATING		
% 2015 ATTACK	10.6%	##	LIGHT	0-599	LEAVE (Monitor, Trap Trees, Baits, etc)
% 2014 ATTACK	10.6%	##	MODERATE	600-999	PROBE (To Obtain Further Info)
% HOST IN STAND	60.2%	##	HEAVY	1000+	RECOMMEND CRUISING/ LOGGING
					584.5

SUMMARY OF ALL CARDS FS1111

NUMBER OF CARDS: 1

ACCESS - From truck, walk 200-800m to access sites. All sites on edge of older cutblocks,, 203 open stand

SITE FEATURES - Minimal slopes in sites, accessed within 200-800m from spur road/ All sites edge of old cutblocks, except 0203 with open sparse stand. All sites wetter areas with patches of heavy alder.

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	PL
17.5-25.0	3.3	3	0	0	0	0	0	0	2	4
25.1-30.0	5.3	3	0	0	0	0	0	0	12	3
30.1-35.0	7.1	12	0	0	0	0	0	0	2	3
35.1-40.0	9.4	3	0	0	0	0	0	0	0	0
40.1-45.0	11.6	1	0	0	0	0	0	0	2	0
45.1-50.0	13.8	0	0	0	0	0	0	0	0	0
50.1-55.0	16.2	0	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	0	0	0	1	0	1	0	0	0
TOTALS		24	0	0	1	0	1	0	18	10

BARK SAMPLES 15 cm x 15 cm	NO. ENTRANCE HOLES	NO. PARENT ADULTS	NO. LARVAE	NO. PUPAE ADULTS	NO. CALLOW	FRESH (GREEN) BLOWDOWN		
						Attacked Y r	Y r ____	Unattacked
2	2	1	2	0	0	0	0	0

SIZE, BOUNDARY AND PATTERN OF THE INFESTATION

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INCIDENCE AND SEVERITY OF THE INFESTATION

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RISK OF BEETLE SPREAD

Minimal, sparse stands on edges of cutblocks and open stands and while there is attack, difficult to predict which direction coming or going from. Seems to be lightly scattered around wet areas.

ACCESS, OPERABILITY and INTEGRATED RESOURCE MANAGEMENT ISSUES

From truck, walk 200-800m to sites. Sites on edge of old cutblocks.. Minimal slopes, wet areas throughout with alder patches and some heavier blowdown areas.

OCT 31 356

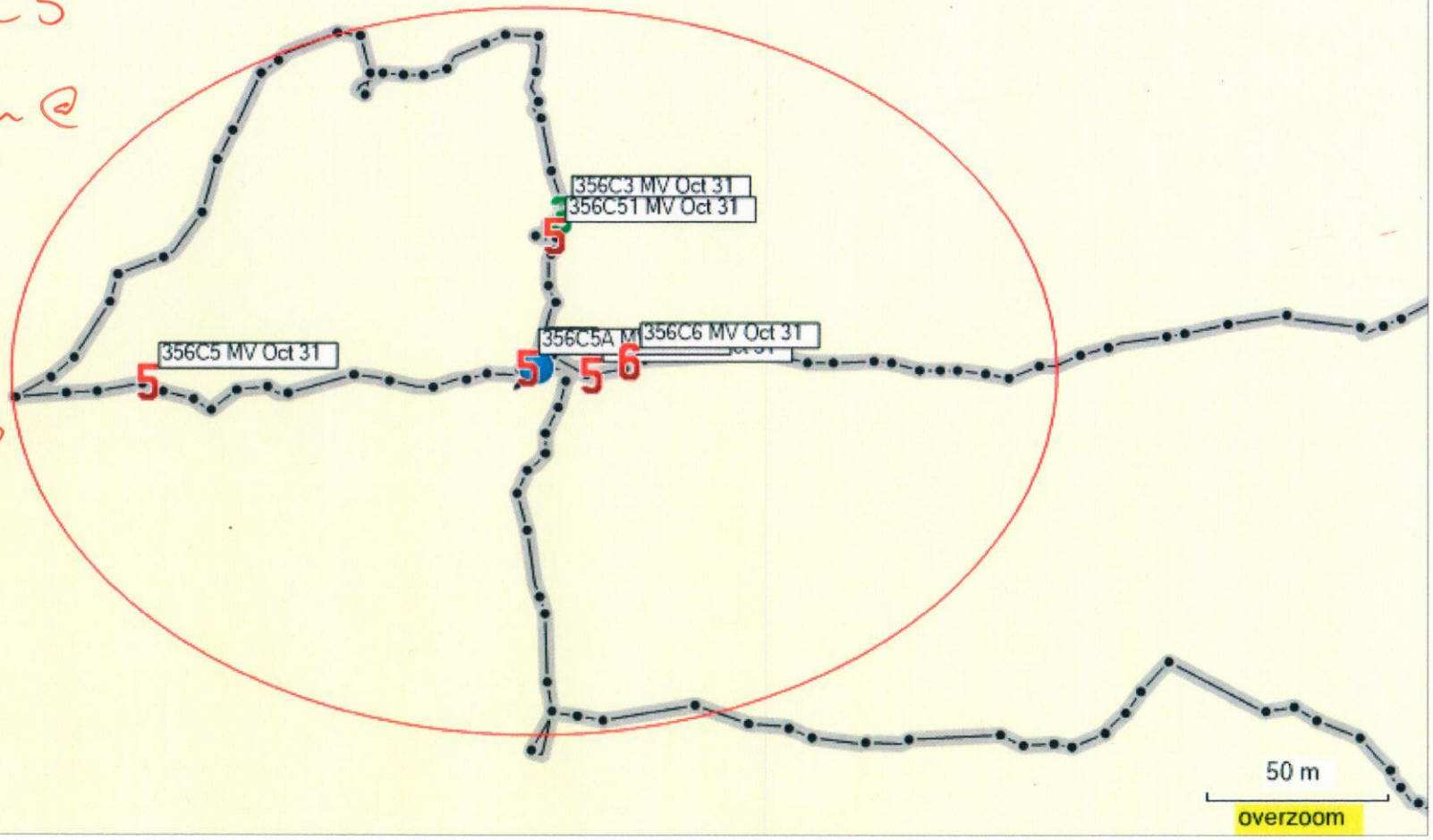
MV, MA

Attack - One C3
Four C5

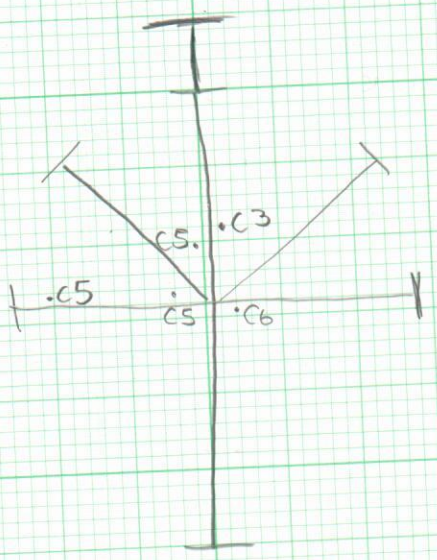
Access - 700m @ 285° From Road.

Features:

No major slopes
Open stand to the East.



SITE 356 - OCT 31
MV, MA



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DUKSBAK WATERPROOF

METRIC FIELD

SPRUCE BEETLE PROBE CARD

LOCATION 356		PAGE	OF
BEARING 360 N	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	BL	PL
17.5 - 25.0	3.3	2							2	3
25.1 - 30.0	5.3	2							1	2
30.1 - 35.0	7.1	3							2	2
35.1 - 40.0	9.4	2								
40.1 - 45.0	11.6	1							2	
45.1 - 50.0	13.8									
50.1 - 55.0	16.2									
55.1 - 60.0	18.7	2								
60.1 +	25.3			1		1				
TOTALS		24		1		1			18	10

BARK SAMPLES 15cm x 15cm	NO. ENTRANCE HOLES	NO. PARENT ADULTS	NO. LARVAE	NO. PUPAE	NO. CALLOW ADULTS	FRESH (GREEN) BLOWDOWN	
						Attacked	Unattacked
N	2	1	2	/	/		
S	/	/	/	/	/		

COMMENTS

(1) - BS

CREW NAMES Mark Videgain / Megan Anstey

DATE Y 16 M 10 D 31

FS 1111 RPG 2000/01 7530881048 (100/bdl)