

SUMMARY OF CURRENT INFESTATION

Star probe shows 3 Code 1 Attacked trees and one Code 3

ACCESS

From Clearwater FSR, walk from truck 100m @ 90 degrees Right beside 2016-CLE-0061

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

Steep Slope 0-25% West as walk towards site. West edge runs along Mainline Road and Cliff at 80m South. 60% SPRUCE, larger DBH

SIZE, BOUNDARY and PATTERN OF INFESTATION

Sporadic Code 1 attack in site. Seems to be moving up from the river where high susceptibility.

INCIDENCE AND SEVERITY OF ATTACK

1 probe line established representative of site. While 4 Code 1's found, Probe line had 2 CODE 1 tree, representing a HIGH Sanitation Rating, and high attack and larval density

RISK OF BEETLE SPREAD and SURROUNDING SITES

Site had moderate attack with a HIGH sanitation rating. Appears that the attack is coming up from the Clearwater river in this area and has large DBH susceptible spruce.

ACCESS, OPERABILITY and INTEGRATED RESOURCE MANAGEMENT ISSUES

Adjacent to road. Cliff at 80m South

RECOMMENDATIONS

OPTION 1

TRAP TREE TRAILS

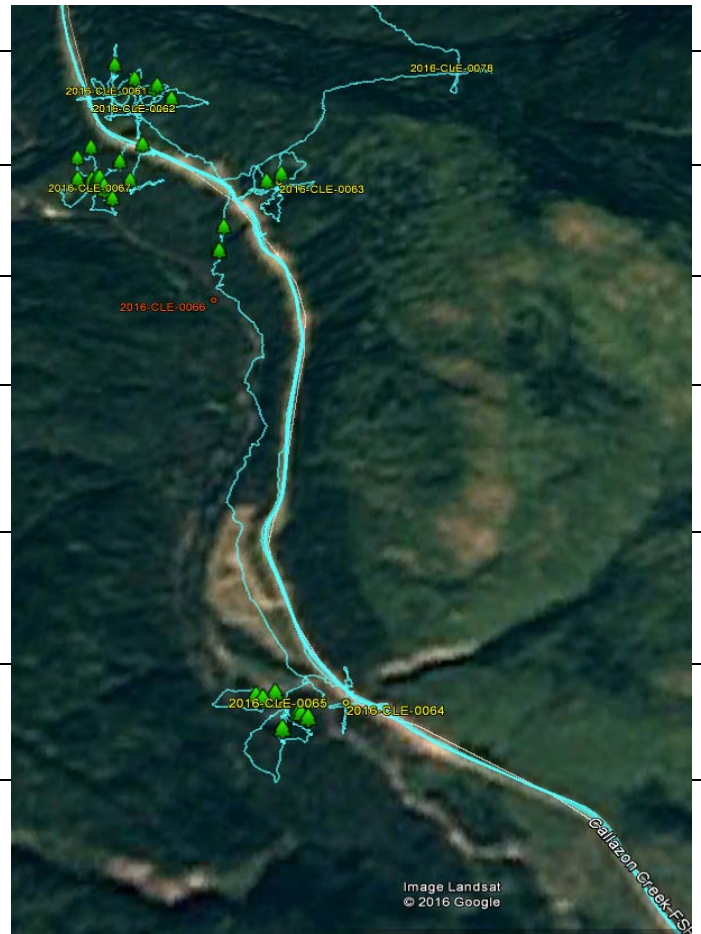
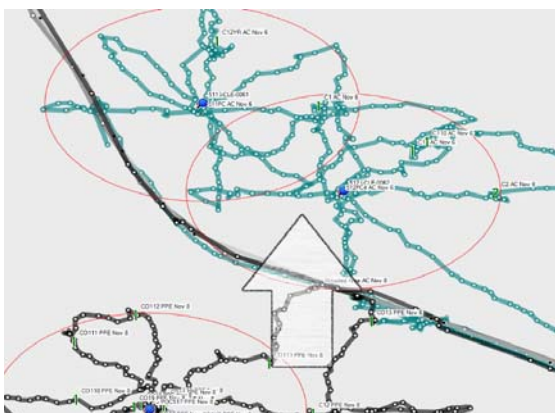
As access good, establish trap tree trail alongside road. Establish a couple others in surrounding sites.

OPTION 2

MONITOR/ EST. POLYGON

Monitor and/or create a polygon along east side of river to incorporate attack in area and better measure impact of attack.,

LIGHT/MOD ATTACK



Summary			
2016-CLE-0062			512

TABLE 5- Spruce Beetle Infestation Summary Sheet

ACCESS - From Clearwater FSR, walk from truck 100m @ 90 degrees Right beside 2016-CLE-0061

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	6.6	0.0	0.0	0.0	0.0	0.0	0.0	9.9
25.1-30.0	5.3	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0
30.1-35.0	7.1	21.3	0.0	0.0	0.0	0.0	0.0	0.0	7.1
35.1-40.0	9.4	9.4	0.0	0.0	0.0	0.0	0.0	0.0	9.4
40.1-45.0	11.6	11.6	11.6	0.0	0.0	0.0	0.0	0.0	0
45.1-50.0	13.8	13.8	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	0	0.0	0.0	0.0	0.0	0.0	0.0	0
60.1 +	25.3	25.3	25.3	0.0	0.0	0.0	0.0	0.0	0
TOTALS	130.2	93.3	36.9	0	0.0	0.0	0.0	0	26.4

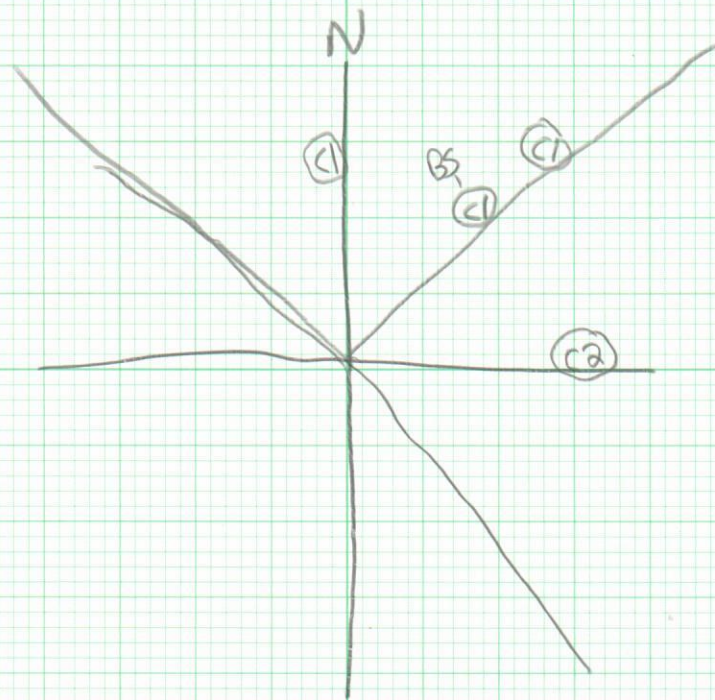
TABLE 4- Spruce Beetle Attack Density and Larval Density Rating			
MEAN NO. OF ENTRANCE HOLES PER 225 cm2 PHLOEM SAMPLE	< 1 LOW Attack Density	MEAN NO. OF LIVING LARVAE PER 225 cm2 PHLOEM SAMPLE	< 4.9 LOW Mean Larval Density
	1.0- 1.9 MOD Attack Density		5.0 - 14.9 MOD Mean Larval Density
	2.0 - 3.9 HIGH Attack Density		15-24.9 HIGH Mean Larval Density
2.00	< 3.9 SEVERE Attack Density	15.00	>24.9 EXTREME Mean Larval Density

TABLE 2- Spruce Beetle Management Options after Walkthrough						
% 2016 ATTACK	28.3%	##	SANITATION AND SALVAGE HARVEST PRIORITY RATING			
% 2015 ATTACK	0.0%	##	LIGHT	0-599	LEAVE (Monitor, Trap Trees, Baits, etc)	2356.3
% 2014 ATTACK	0.0%	##	MODERATE	600-999	PROBE (To Obtain Further Info)	
% HOST IN STAND	83.1%	##	HEAVY	1000+	RECOMMEND CRUISING/ LOGGING	

SPRUCE BEETLE PROBE CARD

LOCATION 512 Northeast		1000502166 668758		PAGE OF elev: 1028m						
BEARING 45°		DISTANCE 0.100 m		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	••							81	••
25.1 - 30.0	5.3	•								•
30.1 - 35.0	7.1	••								
35.1 - 40.0	9.4	•								•
40.1 - 45.0	11.6	• (W)								•
45.1 - 50.0	13.8	•								
50.1 - 55.0	16.2									
55.1 - 60.0	18.7									
60.1 +	25.3	•	•							
TOTALS		10	2							5
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 70% 2 Year life cycle										
CREW NAMES Aaron Colebank						DATE 2016/11/06				

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



Access - walked from truck @ 1000502166
668835

512 Plot Centre - 1000502166
668758

Aaron Colebank Nov 6th, 2016

Belt 80m South

north pushed 200m
east pushed 180m

METRIC FIELD