

Williams Post and Pole Sale
Monitoring Summaries
Karen Gallogly, Brandon Butsick
September 2002
June 2006

Coarse Woody Debris Monitoring:

Average Coarse Woody Debris for 10 Transects in Unit 4: 2.25 tons per acre.

Average Coarse Woody Debris for 10 Transects in Unit 3: 8.57 tons per acre

Bulk Density Sampling using core samples take from skid trails to determine if soil is detrimentally compacted.

Landtype is V106: Benchy Moraine Lands in Volcanics. This landtype has a high impact rating for roads and trails. Erosion potential of exposed cut and fill slopes is high, mass stability of cut and fill slopes will be moderate.

Areal extent of soil disturbance from skid trails in all units ranged from 1.3 percent to 4 percent. This monitoring was conducted 5 years after harvest. Skid trails had been ripped and seeded. Disturbance from landings ranged from .08 acre to .34 acre.

Monitoring demonstrates that extent of disturbances is well within the Forest Plan standard of no more than 20 percent detrimental soil disturbance by activity area. The Regional Guideline of no more 15 percent detrimental soil disturbance by activity area is also met.

Downed Woody Material Computation

Transect Length 50 ft Harvest unit 4

Tran	Size (dia)	# Logs	Wt/ac (tons)	Size	# Logs	Wt	Size	# Logs	Wt	Total Wt
1	3	11	1.7	1.7						
2	3	1	0.8	0.8						
3	5	1	2.3	4.6						
	3	1	0.8							
	4	1	1.5							
4	3	1	0.8	2.3						
	5	1	2.3							
5	4	111	4.5	10.2						
	3	11	1.7							
6	5	1	2.3	2.3						
7	4	1	1.5	1.5						
8	0	0	0	0						
9	4	1	1.5	1.5						
10	3	1	0.8	0.8						

same course

Total 2.25 tons/acre course w/ 1y debris
73in dia.

Williams Post and Pale 8/17/02

Downed Woody Material Computation

Transect Length 50 feet - Harvest unit 3

Tran	Size	# Logs	Wt/pc	Size	# Logs	Wt	Size	# Logs	Wt	Total Wt			
#1	4	1111	6.0	9.4	#8	4	4	1	1.5	2.3			
	3	111	3.4								3	1	.8
#2	3	1111	4.2	12.4	#9	3	1111	3.4	10.9				
	4	1	1.5								4	1	1.5
	6	11	6.7								8	1	6.0
#3	4	111	4.5	10.8	#10	3	111	2.5	8.6				
	3	11	1.7								7	1	4.6
	7	1	4.6								4	1	1.5
#4	3	11	1.7	11.4									
	4	11	3.0										
	6	11	6.7										
#5	3	11	1.7	4.7									
	4	11	3.0										
#6	3	1	0.8	10.5									
	6	11	6.7										
	4	11	3.0										
#7	3	111	2.5	4.8									
	5	1	2.3										

5
 9.4
 12.4
 10.8
 11.4
 4.7
 10.5
 4.8
 2.3
 10.9
 8.6

85.7

tons per acre 8.57
 coarse woody debris

WILLIAMS POST and POLE DATA

Skid trail
 Interspace
 Skid trail
 Outside unit
 Skid trail
 Outside unit

Sample (July 8)	Wet wt. (g)	Dry wt. (g)	Tare wt. (g)		Soil Wet wt. (g)	Soil Dry wt. (g)	Bulk Density
<i>GR-loam 1</i>	244.6	215.3	43.8		200.8	171.5	1.293
<i>GR-loam 2</i>	182.7	168.7	44.4		138.3	124.3	0.937
<i>GR-loam 3</i>	204.5	157.8	43.8		160.7	114	0.860
<i>GR-loam 4</i>	171.6	155.8	44.4		127.2	111.4	0.840
<i>GRX-loam 5</i>	262.4	239.5	45		217.4	194.5	1.467
<i>Loam 6</i>	208.1	188.8	47		161.1	141.8	1.069

Williams Creek Harvest Skid trail survey

6/20/06

Brandon Butsick

Unit 1

Size: 9 ac

Trail coverage: .3 ac

Trail percentage: 3.3%

Landing Area: .08 ac

Unit 1 is a clearcut harvest. Almost no trail was noticeable in the unit itself, trails primarily traversed uncut areas from the unit to the landing by the road. Ground coverage is very good. See photos 1,2.

Unit 2

Size: 11 ac

Trail coverage: .44 ac

Trail percentage: 4%

Landing area: none

Unit 2 is also a clearcut harvest. Landing was part of clearcut unit. See photos 3,4.

Unit 3/7

Size: 44 ac combined

Trail coverage: .58 ac

Trail percentage: 1.3%

Landing area: .13 ac

Units 3 and 7 appear to have been logged as one unit. These units are not clearcut and are recovering quite well. Ground coverage is excellent and trails are hardly noticeable. A road runs through the center of unit, which seems to have reduced the skidder impact. See photos 5,6,7.

Unit 3/5/6

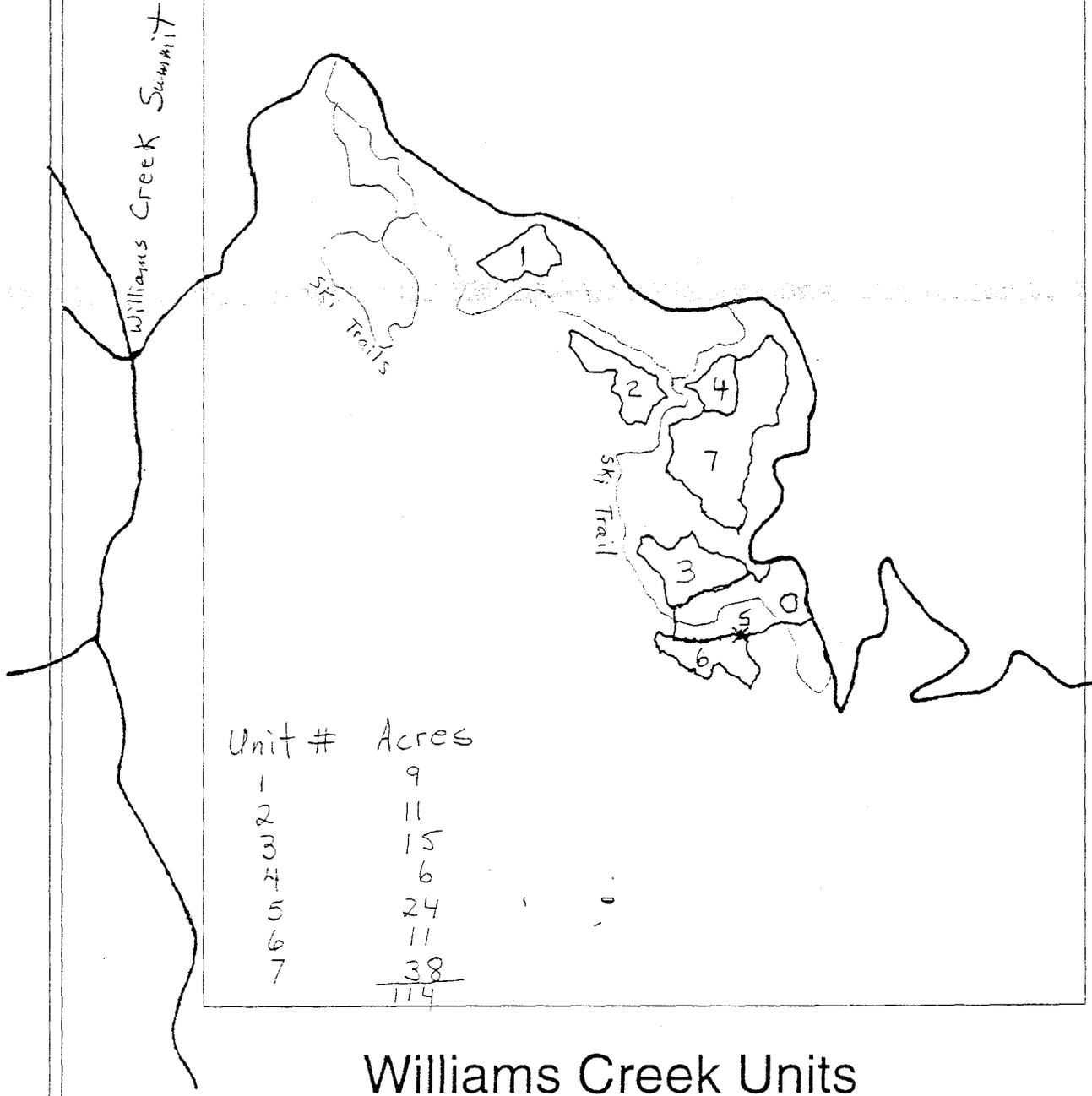
Size: 50 ac combined

Trail coverage: 1.5 ac

Trail percentage: 3%

Landing area: .34 ac

Units again were combined for logging. Overall units are recovering well. Most of the trail coverage is located in the central (5) unit. Ground coverage is excellent. See photos 8,9,14,15 for unit 5; 10,11 for unit 6; and 12,13 for unit 3.



Unit #	Acres
1	9
2	11
3	15
4	6
5	24
6	11
7	38
	<hr/> 114

Williams Creek Units

Universal Transverse Mercator
11 North
NAD 1927 (Conus)



Scale 1:24000
0 800.0
 Meters

Multiple Files
10/25/1999
Pathfinder Office
 Trimble