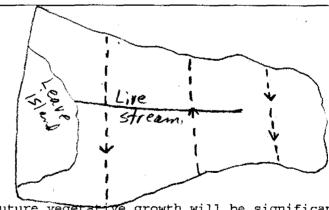
Rexford (D-1) - Bunker Hill Fire Salvage	112-02-102	
Unit 10 11202102		
2. A	KOOTENAI NATIONAL FOREST	
	SOLL STURBANCE DATA FORM	TO POOL
DATE 4/17/97	CUTTING METHOD CC TO	elserves / Fire Salvage
		ن المحاصلات
BESERVER Kuennen Sullivan Billows, Wardner	Young, skidding method Summer	Tractor
DISTRICT D-1	HAZARD TREATMENT	
<i></i>	c yord gli	Spring 97
SALE BUNKET HILL Fire S	SILVICULTURAL PLATMENT BO	Agest @ lack by bire
Unit No. 10	<u> </u>	1. '01
Acres 44	OPERATION PERIOD Sum	ner 16
Habitat Type 5HK/Clun	7, 407	
· /	20-40%	15
COMPACTION (Heavy) Trans.1		
Trans.2		19
Trans.3 🔯 🔯 😿		33
COMPACTION(Light) Trans 1		crosianoutal 55
	AND NEW	1 151
Trans.3 AMMSAMS		148
UNDISTURBED Trans 1		150
Trans.2	NA DANKA NA KENA KAN	D 4 ruck 239
Trans.3 NANMANNA		3 12 SMZ, 2012 193 250
DISPLACED		· ·
EXCAVATED SKID TRAIL		
SMZ 🔯		
SMZ_101	- 1/ 1 - 14/7	
SMZ_101	y every 30 - 50' a hots of water	y that ray this
SMZ_101	y every 30-30's hots of water	that ran this le .
SMZ 🔯	eneth and of wnet the from the	that san this les
SMZ_101		e that san this de weed trail-
SMZ 🔯	eneth and of wnet the from the	e that ran this Id reused trail.
SMZ_101	eneth and of wnet the from the	e that son this ed sensed brail.
SMZ 🔯	energy unit the from the south of the south or	e that ran this ed sensed brail.
SMZ 🔯	energy unit the from the south of the south or	e Hat son Huis de seused Brails.
SMZ 🔯	energy unit the from the south of the south or	le of unit.
SMZ & COMMENTS Trans - 1200 -	enth end of went to from the contract of track. It said the contract of the court o	e that ran this de seused trails.
SMZ_121	enth end of went to from the contract of track. It said the contract of the court o	e spunit.



COMPACTION (Heavy) - any place where future vegetative growth will be significantly impacted, i.e., skid trails (both heavily and lightly used depending on amount of compaction related to soil moisture), landings, and other impacted areas.

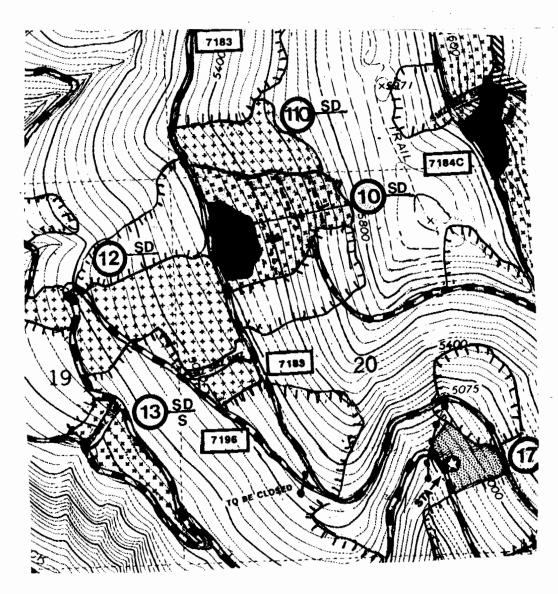
<u>OMPACTION(Light)</u> - any other area not included in heavy COMPACTION or UNDISTURBED.

<u>UNDISTURBED</u> - no signs of any machinery or skidding activity.

<u>DISPLACED</u> - any place soil has been mounded by machinery, also include in heavy or light compaction.

SMZ - include within transect if within harvest unit.

	Transe	ect 1	Transe	ect 2	Transe	ct 3	Transe	ect 4	Transe	ect 5	TOT	ALS
	Pts.	ે ક	Pts.		Pts.		Pts.	8	Pts.	<b>8</b> .	Pts.	8
D HEAVY	15	7	10	5	33	3	l				67	6.5
s LIGHT	55	25	151	37	148	10		<u> </u>	<u> </u>	1	354	34,5
u UNDISTURB	150	i	1	l	227	55				<u> </u>	609	59
TOTALS	220	100	1403	1/6-0	401					<u> </u>	1030	100
	!	<u> </u>		ļ 				<u> </u>		<u> </u>	<u> </u>	
DISPLACED	10	5	19	5	120	5				] 	49	سی ا
EROSION	1.3		5	1	7		1				115	
PUDDLED	0		0	İ	0						0	0
SMZ		1			23		1			ļ 1	23	2
ROCK			4	1	Ī						4	0
BURN PILES	3					1					1	1



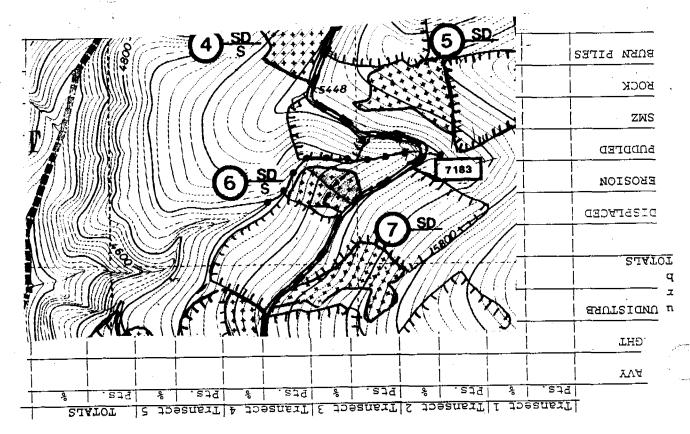
08/05/1997

Rexford (D-1) - Bunker Hill Fire Salvage
Unit 6

KOOTENAI NATIONAL FOREST
SOIL DISTURBANCE DATA FORM 11203075

ATE 8. 5.97	CUTTING METHOD Hand	
OBSERVER Kuennen	SKIDDING METHOD Cable	
DISTRICT Rexford	HAZARD TREATMENT none	
SALE Bunker/till Fire Salvage Unit No. 10Ac	SILVICULTURAL TREATMENT_	
H.T. SAF/Clun/Mefe-	Mod OPERATION PERIOD Summe	r'97
// クールマール	Supe 30-43%	. 1
COMPACTION (Heavy):		9
COMPACTION(Light)		40
UNDISTURBED A B B B B B B B B B B B B B B B B B B		20
DISPLACED (		3
EXCAVATED SKID TRAIL		
SMZ		
SHAPE OF UNIT AND PATTERN OF TRA	INSECT transects	-11
	(	
		[] \(\lambda\)
impacted, i.e., skid trails (botompaction related to soil moist COMPACTION(Light) - any other at UNDISTURBED - no signs of any modern and DISPLACED - any place soil has	here future vegetative growth will th heavily and lightly used depend ture), landings, and other impacte rea not included in heavy COMPACTI achinery or skidding activity. been mounded by machinery, also in	ing on amount of d areas. ON or UNDISTURBED.
light compaction.  SMZ - include within transect is	f within harvest unit	5/93

Transe	ect 1	Trans	ect 2	Trans	ect 3	Trans	ect 4	Trans	ect 5	TOTA	LS
Pts.	ક	Pts.	ક			Pts.	8	Pts.	કુ	Pts.	ક
4	2			<u> </u>	<u> </u>			<u> </u>	! 	4	2
40	16	[ 					<u> </u>		<u> </u>	40	16
200	82	1		<u> </u>			<u> </u>		 	200	82
								<u> </u>	<u> </u>	244	100
]			1		 	<u> </u>	<u> </u>	<u> </u>	<u> </u>	· -	
3	1									3_	
						1		1	1		0
											0
		<del>                                     </del>									
3		1		<u> </u>		i —			i		
	9 40 200 244	9 2 40 16 200 82 244 100	Pts.   \$   Pts.   40   16   200   82   244   100   3   1	Pts. \$ Pts. \$  40 16  200 82  244 100	Pts.   \$   Pts.   \$   Pts.	Pts.   \$   Pts.   \$   Pts.   \$   \$	Pts.   \$   Pts.   \$   Pts.   \$   Pts.	Pts.   \$   Pts.   \$   Pts.   \$   Pts.   \$   \$	Pts.   \$   Pts.   \$   Pts.   \$   Pts.   \$   Pts.   \$   Pts.     \$   Pts.   Pts.   \$   Pts.   Pts.   \$   Pts.   Pts.   \$   Pts.   Pts.   \$   Pts.   Pts.   \$   Pts.   Pts.   \$   Pts.   Pts.   \$   Pts.   Pts.   \$   Pts.   P	Pts.   \$   Pts.   \$   Pts.   \$   Pts.   \$   Pts.   \$   Pts.   \$   \$   Pts.   Pts.   \$   Pts.   Pts.   \$   Pts.   Pts.   \$   Pts.   Pts.   \$   Pts.   Pts.   \$   Pts.   Pts.   \$   Pts.   Pts.   \$   Pts.   P	4       40       200       244       3       1       3    3



07/22/1997
Rexford (D-1) - Webb FIre Salvage
Unit 2
10907167

KOOTENAI NATIONAL FOREST SOIL DISTURBANCE DATA FORM

DATE July 22 1997	CUTTING METHOD Cleppe
OBSERVER MENNIN Sulliver	SKIDDING METHOD Tractor Forwarder
DISTRICT Respons	HAZARD TREATMENT BB?
SALE Webl Fire Salvage	SILVICULTURAL TREATMENT Group Shelterwood / Scar
Unit No. 2 Acres 14- 109-07-167	OPERATION PERIOD Winter 96-97
One transect on lower end of m	id-section of unit-started west to east
COMPACTION (Heavy)	
COMPACTION(Light) 因因同意因为	
DEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDE	X 232
UNDISTURBED AND AND AND AND	MANA MANA MANA MANA MANA MANA MANA MANA
DISPLACED OF THE STREET	MANAMA AND AND AND AND AND AND AND AND AND AN
EXCAVATED SKID TRAIL	
SMZ	
COMMENTS	
32	Ч
overland/chamelized flau: BAR	
A lost of sundance I have I during so	ne with 2000 in
Some exposed sail along	so-back trail on externelye fund
SHAPE OF UNIT AND PATTERN OF TRANSECT	for francisco facult
Sel back	

COMPACTION(Heavy) - any place where future vegetative growth will be significantly impacted, i.e., skid trails (both heavily and lightly used depending on amount of compaction related to soil moisture), landings, and other impacted areas.

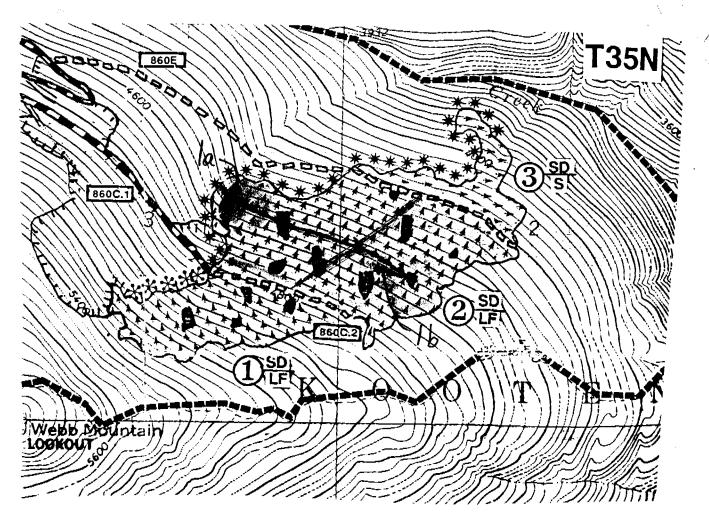
COMPACTION(Light) - any other area not included in heavy COMPACTION or UNDISTURBED.

UNDISTURBED - no signs of any machinery or skidding activity.

DISPLACED - any place soil has been mounded by machinery, also include in heavy or light compaction.

SMZ - include within transect if within harvest unit.

	frus	1	Tre	Sin	. m.,	~ ~ <del>-</del> 7	l mana an a		Trans		1	NT 0
	Pts.	%	Pts.		Pts.	<u>ect 3</u>   %	Pts.		Pts.	<u>ect 5</u>   %	Pts.	УП. В
HEAVY	5	1	5	1							10	1
LIGHT	172	46	232	46							404	46
UNDISTURB			271			<u> </u> 	<u> </u>	<u> </u> 	1	<u> </u>	470	53
OTALS	376	100	508	100	<u> </u>		<u> </u>			<u> </u>	884	180
	ļ . <u>.</u>							<u> </u>	ļ 		<u> </u>	
DISPLACED	6	2	3	1					<u> </u>		9	
EROSION	4		2	0				<u> </u>	1	[ 	6	
PUDDLED								İ			0	0
=Overlan	28	7	/	0	1						29	3
ROCK		İ						1			,	
BURN PILES			] [		1		-		İ			



TIONAL FOREST, Fire Salvage DISTURBANCE DATA FORM Unit 8 10704088 JTTING METHOD KIDDING METHOD HAZARD TREATMENT  $\mu$ DISTRICT ILVICULTURAL TREATMENT 107-04-088 PERATION PERIOD WL 41 **BBBB** COMPACTION (Heavy 図は 202 43 RESERVE OBBB7. COMPACTION(Light) 7% 3 /2 N N N NAME OF STREET 5-4 L NAMAND DECINE 西西西西西: UNDISTURBED /32<sub>1</sub> / 图图图图图图图图图图图图图 DISPLACED X BX II SU BEBBI 50 EXCAVATED SKID TRAIL SMZ COMMENTS SHAPE OF UNIT AND PATTERN OF TRANSECT COMPACTION(Heavy) - any place where future vegetative growth will be significantly impacted, i.e., skid trails (both heavily and lightly used depending on amount of compaction related to soil moisture), landings, and other impacted areas. COMPACTION(Light) - any other area not included in heavy COMPACTION or UNDISTURBED. UNDISTURBED - no signs of any machinery or skidding activity. DISPLACED - any place soil has been mounded by machinery, also include in heavy or light compaction. SMZ - include within transect if within harvest unit. 5/93

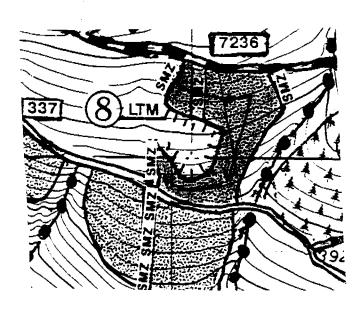
07/22/1997

Rexford (D-1) - Lower Scalp

Current Summar Formerious

	Trance	or 1	Trance	act 2	Transe	act 3	Transe	ect /	Transe	ect #	Tran	<u></u>	
-	Pts.	8	Pts.	8	Pts.	%	Pts.	જ	Pts.	ફ	Pts.	96	Γ ,
HEAVY	0	0	0	0	0	0	41	19	40	ZZ	54	20	10
LIGHT	76	35	77	43	132	50	133	60	110	<u>le1</u>	167	63	   52
UNDISTURB	144	65	104	59	1/32	50	46	21	30	17	43	199	38
OTALS	220	/ <i>0</i> 0	181	100	264	100	220	160	181	100	264	100	<u> </u>  -
			176	<u> </u>					<del>                                     </del>				<u> </u>
DISPLACED	1		66		1	ļ i	40	18	36	20	43	17	9
EROSION							5	2	4	2	7	3	
PUDDLED		   											l L
SMZ													Ī
ROCK					<del> </del>								Ī
BURN PILES													Ţ

135



	L DISTURBANCE DATA FORM	
PATE 8-5-97	CUTTING METHOD Clipper	
OBSERVER Kuennen	SKIDDING METHODRIS + cat disperse	<u>. d</u> _
DISTRICT Rexford	HAZARD TREATMENT nonl	
SALE North Fork West Fire Selva	silvicultural treatment SD	
Unit No. 28a 143 Hcl	operation period wenter '96-97	
H.T WRC/Clun wet spot 112-0	4-220 Slope 3-50%	
COMPACTION(Heavy) 🛛 🔯		20
undisturbed MMMMM MMMM		
undisturbed MAMAX MAMAA AMAAAAAAAAAAAAAAAAAAAAAAAAA		M
undisturbed MANAX MANAA ADNAXAAAA MAAAAA displaced L		 (NN
undisturbed MMAMM MAMMA		 (NN
UNDISTURBED MAMA MAMANA		111 A
UNDISTURBED MAMA MAMAA AMAA MAA MAMAA DISPLACED L EXCAVATED SKID TRAIL SMZ		 (NN
UNDISTURBED MANA MANA MANA MANA MANA MANA MANA MAN		MAA L 8 S S S S S S S S S S S S S S S S S S S
UNDISTURBED MANA MANA MANA MANA MANA MANA MANA MAN		MAA L 8 S S S S S S S S S S S S S S S S S S S
UNDISTURBED MANA MANA MANA MANA MANA MANA MANA MAN		MAA L 8 S S S S S S S S S S S S S S S S S S S

COMPACTION(Heavy) - any place where future vegetative growth will be significantly impacted, i.e., skid trails (both heavily and lightly used depending on amount of compaction related to soil moisture), landings, and other impacted areas.

COMPACTION(Light) - any other area not included in heavy COMPACTION or UNDISTURBED.

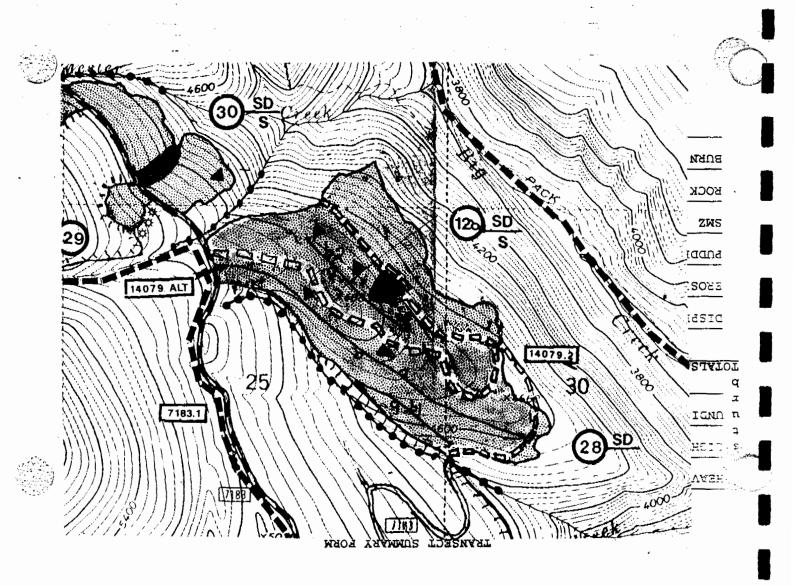
UNDISTURBED - no signs of any machinery or skidding activity.

DISPLACED - any place soil has been mounded by machinery, also include in heavy or light compaction.

SMZ - include within transect if within harvest unit.

08/07/1997

	Transe	ct. 1	Trans	ect 2	Trans	ect 3	Transe	ect 4	Transe	ect 5	TOT	ALS
	Pts.	ક	Pts.	<u>}</u>	Pts.	8	Pts.	<u>ક</u>	Pts.	કે	Pts.	ક
HEAVY	20	2			1			İ İ			<u> </u>	
LIGHT	285	24		 		] 				1	1	
UNDISTURB	885	74		1				-	-  -			
O TOTALS	1190	100					1					
					]							
DISPLACED	5	.5					[			1		
EROSION		0	!		1				1	1		
PUDDLED		0					1					
SMZ					l .							
ROCK					-							
BURN PILES	-											
		<del></del>			<del></del>							



HAZAR SILVI DPERA 13	TION I	ATMENT_ RAL TRE PERIODS Sum	EATMENT  Scomme  5 - 4	e'97 peutio 1040	n-tractor northwest	
DPERA 13 100	TION I	RAL TRE	Seeme on the of 5 - 4	e'97 peutio 1040		
13 100 130	TION I	PERIODS Sum	Seeme on the of 5 - 4	e'97 peutio 1040		
13 100 130		Sum MAN DI	5-4	peutio 1090		
130	ØØţ	ANN AL		<b>ABB</b> B		
130	<u> </u>					
	ADD	ZNAME				_ _ _
1						
						<u> </u>
OK	uss,	for the	steep	en pert	on souther	nedy
						_
		<u> </u>				

COMPACTION(Heavy) - any place where future vegetative growth will be significantly impacted, i.e., skid trails (both heavily and lightly used depending on amount of compaction related to soil moisture), landings, and other impacted areas.

COMPACTION(Light) - any other area not included in heavy COMPACTION or UNDISTURBED.

UNDISTURBED - no signs of any machinery or skidding activity.

DISPLACED - any place soil has been mounded by machinery, also include in heavy or light compaction.

SMZ - include within transect if within harvest unit.

	58		NW	TRAI	NSECT :	AMMUS	RY FOR	M				
	Cond	ect 1	Car	ner					Transe	ect 5	TOTA	LS !
	Pts.	ક	Pts.	%	Pts.	ક	Pts.	ैं र	Pts.	ક	Pts.	- to
D HEAVY	/3	5	17	4	<u> </u>	<u> </u>			<u> </u>		30	4.5
s LIGHT	100	41	190	46	<u> </u>	<u> </u>			<u> </u>	 	290	44
u UNDISTURB	130	54	210	50	<u> </u>			<u> </u>	<u> </u>	<u> </u> 	340	51.5
b TOTALS	243	100	417	100	<u> </u>		<u> </u>	<u> </u>	<u> </u>	<u> </u>	660	100
		} !	] . 	] 	<u> </u> 	 		\ \[ \	<u> </u>	<u> </u>		
DISPLACED	17	3	0	0							7	
EROSION			1	1		1					<u> </u>	0
PUDDLED									[			0
SMZ									1		-	
ROCK		<u> </u>						-   -   -   -				
BURN PILES	3										<u> </u>	 

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73H	YVÆ	1	<del>  </del>	Ť		i	Ť		+	-			+-	<del> </del>			+-		<u>                                     </u>
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#### 3450405 KOOTENAI NATIONAL FOREST SOIL DISTURBANCE DATA FORM

cutting method Hand 4/ chippered 3/4
skidding method BB - spring 97 DATE HUA. 15, 1997 ÖBSERVER 🕹 DISTRICT Fortine SILVICULTURAL TREATMENT LTM - WL+DF Seed trees SALE Mid Advent 345-04-054 OPERATION PERIOD wenter H.T. - SAF/Libo Slope: 5-30% COMPACTION (Heavy) 60 COMPACTION(Light) X X X X DISPLACED EXCAVATED SKID TRAIL SHAPE OF UNIT AND PATTERN OF TRANSECT ➂ Transecto vegetative growth will be significantly COMPACTION (Heavy) is (both heavily and lightly used depending on amount of compaction related to soil moisture), landings, and other impacted areas. COMPACTION(Light) - any other area not included in heavy COMPACTION or UNDISTURBED. UNDISTURBED - no signs of any machinery or skidding activity. DISPLACED - any place soil has been mounded by machinery, also include in heavy or light compaction.

SMZ - include within transect if within harvest unit.

5/93

	Transec		Transec	t 2	Transect		Transec	t 4	Transec	et 5	TOT	ALS /
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
D HEAVY i	15	3	5	2							20	3
s LIGHT t	60	14	40	16						1 4	100	14
u UNDISTURB	360	83	210	82				-	,	,	570	83
TOTALS	435	100	255	100						,	690	100
DISPLACED												
			ļ ,									0
EROSION												0
PUDDLED										-		0
SMZ 3				/				<u></u>				
ROCK	17	4	18	9		· ·					35	5
BURN PILES		E:.				-						

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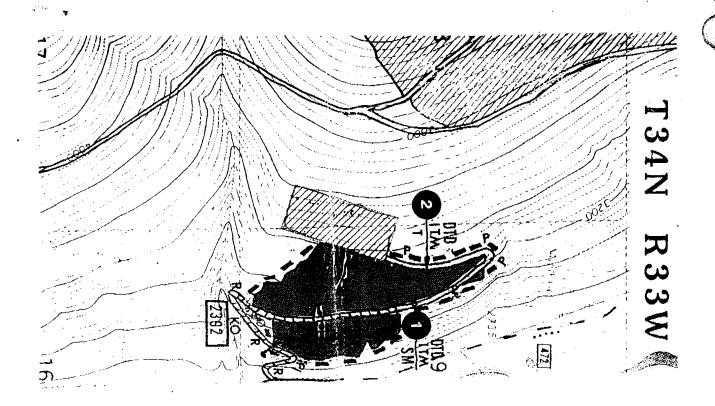
PATE 8 · 15 · 1997	cutting method Clippered
OBSERVER Kuennen	skidding method RTS
DISTRICT Fortine 345-02-054	HAZARD TREATMENT BB - Cool Spring 97
SALE Mid Advent	SILVICULTURAL TREATMENT LTM - WL +DF seed thees
Unit No. 3 Acres: 35 H.T. SAF/Lib, - SAF/Xete	OPERATION PERIOD Spring 96
COMPACTION(Heavy);	7
COMPACTION (Light) MMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMM	790 76.
UNDISTURBED WANDAMA AND AND AND AND AND AND AND AND AND AN	AND AND AND AND AND AND AND AND AND AND
A BABA A BABA BABA BABA	SURPRIME DE MANAGEMENT 405
DISPLACED	
EXCAVATED SKID TRAIL	
Rock [ D NO Beliach:	Piegan One rock bluff 20 high. 8/33
Hypen rock rit in unit more in	of the! it 60 mer ally specention gently sloves to
more uniform slopes. Lots of	of the wit of Generally present on gentler slopes to behan till (angular to subangular)
Chough of 3" KWD present	I left than in Unit, also shore unburned.
Excavator fireline w/ Throwba	ch.
SHAPE OF UNIT AND PATTERN OF TRANSECT	+
SHAFE OF UNIT AND PATTERN OF TRANSPORT	1811 BES
	HILLER ROLL AND A
	3710D \ \ \ \ \
COMPACTION(Heavy) - any place while)	3710D ve growth will be significantly
impacted, i.e., skid trails (bot	:ly used depending on amount of
compaction related to soil moist COMPACTION(Light) - any other ar	heavy COMPACTION or UNDISTURBED.
UNDISTURBED - no signs of any ma DISPLACED - any place soil has b	inery, also include in heavy or
light compaction.  SMZ - include within transect if with	* / / / / / / / / / / / / / / / / / / /
PUT - THE FORE ATCHING CRANGERS IT ATCH	THE HEAT WHITE.

	Transec	t 1	Transe	. 2	Transect		Transec	t 4	Transec		TOT	ALS
	Pts.	<b>3</b> .,	Pts.		Pts.	%	Pts.	%	Pts.	%	Pts.	9/
D HEAVY	7	1	5								12	
s LIGHT t	180	28	190	32	·			_			370	30
u UNDISTURB	464	71	405	67	<u> </u>						869	69
TOTALS	651	100	600	100					<u> </u>		1251	100
								1. 10.11				
DISPLACED				,					!		,	0
EROSION					1							0
PUL DI ED							† <del>·</del>			-		0
112		-			: (			<del></del>				1
ROCK	8	/ _ ,	33	6			1 1				41	3
BURN PILES												

08/13/1997 Three Rivers (D-4) - Saloon Salvage, Unit 1 40303106 40303706 KOOTENAI NATIONAL FOREST SOIL DISTURBANCE DATA FORM

PATE 4-13-97	CUTTING METHOD
OBSERVER L. Kummen/Moeller	skidding method Rubber time (RTS)
DISTRICT D-4	HAZARD TREATMENT None
SALE Saloon Salvage,	SILVICULTURAL TREATMENT Sanitation Salvan
Unit No. 1 Kibler WH/Clun 19 Acres	OPERATION PERIOD Now Dec 1996
403-03-106	5/0/-5-3-33
COMPACTION(Heavy)	existing tral
COMPACTION(Light) 区域区区	39
UNDISTURBED S NO S S S S S	母 图 图 图 图 图 图 图 图 图 图 图 图 图 图 图 图 图 图 图
DISPLACED SI:	
EXCAVATED SKID TRAIL	
SMZ Ø 🛛 🛱 🛇	
COMMENTS The heaves compaction  and I existing all  Trail loyout was ex  the duff loner on  Some of the Hoo  are solequates seed in	cat trail. The unit looks good.  (cellente The winter harvest maintained the majority of the skid Trails  Bars are ineffective, but the majority  4 is good.
Removed WWP from end of unit,	stand. Main trail on bench at lower
SHAPE OF UNIT AND PATTERN OF TRANSEC	CT /
Rd 2392	1 -5MZ transect
	Ilanding main skid trail
<pre>impacted, i.e., skid trails (both he compaction related to soil moisture) COMPACTION(Light) - any other area r UNDISTURBED - no signs of any machin</pre>	future vegetative growth will be significantly eavily and lightly used depending on amount of ), landings, and other impacted areas.  not included in heavy COMPACTION or UNDISTURBED.
light compaction. SMZ - include within transect if wit	

_	Transe					<u>ect_3</u>	Trans	<u>ect 4</u>	Trans	ect 5	TOTA	LS_
	Pts.	ી કે	Pts.	1 8	Pts.	왕	Pts.	8	Pts.	3	Pts.	용
HEAVY	9	3			<u> </u>			<u> </u>		 	9	3_
LIGHT	59	19		<u> </u>							1.59	19
UNDISTURB	254	78		 	,			<u> </u> 		<u> </u> 	254	78
TALS	326	100			<u> </u>						326	100
							1					
DISPLACED	14	4		<u> </u>		İ			}		14	4
EROSION												D
PUDDLED												0
SMZ	40	12									48	12
ROCK	14	4									14	4
BURN PILES	1						1	<u> </u>				

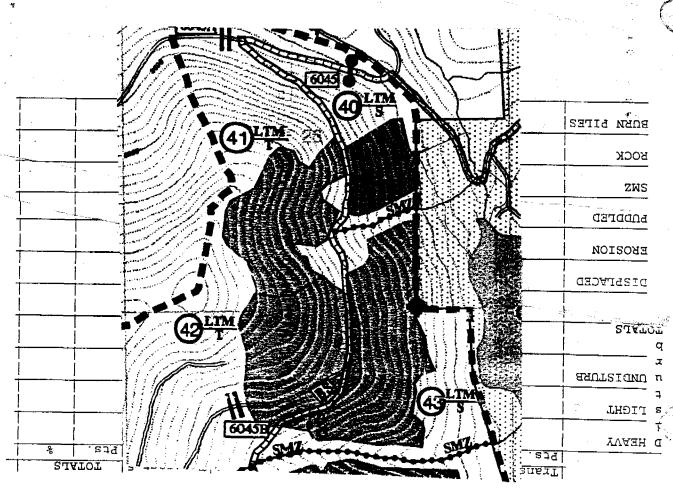


08/13/1997				-			
Three Rivers -	Zimm	Hill	FIre	S	al	va	ige
Unit 40	,					• 3	~ *
42402177		. •		*	•		4

42402117 KOOTENAI NATIONAL FOREST SOIL DISTURBANCE DATA FORM

ATE 8-13-97	CUTTING METHOD New red
OBSERVER wennen/Moelle	SKIDDING METHOD RTS + High Trac
DISTRICT Thee Sivers	HAZARD TREATMENT None
SALE Zimm Hill Fire Salvage	silvicultural treatment LTM (seed tree)
Unit No. 40 Hommel	OPERATION PERIODUJEMA ON 1/6-9/
1424 02 177 22 Heres	Slope 20 - 30%, uniform
COMPACTION (Heavy)	14/20
COMPACTION(Light) X X X X X X X	73/80
COMPACTION(Light) X X X X X X	73/80
	NABBERS OF BEST OF BES
ANNER AND AND	230/
DISPLACED 🖾 🗀 🖾 🖾	17/19
EXCAVATED SKID TRAIL	
SMZ	
COMMENTS / Found Area of overland	Tow - Some Erosion occurred Clean
cobbles sxposed and clean.	When ground disturbance than garacted
	ow was not set up when we logged
I appears that the grown	did not freeze in the main trails
Several small wildle	if patches left
Soils - Deen glacial till w/ good ask	cap. Easterly aspect. Lots of near surface
flow-intercepted in scholol place	
SHAPE OF UNIT AND PATTERN OF TRANSEC	T
	D: 140
60 COUE //	
· · · · <b>·</b>	O- Area, where Clipper
<b>∤</b>	was stuck, overland flow and Erosion occurren
,,	3) Over land flow Down
•	
COMPACTION(Heavy) - any place where	future vegetative growth will be significantly
impacted, i.e., skid trails (both he	avily and lightly used depending on amount of
compaction related to soil moisture)	, landings, and other impacted areas. ,
UNDISTURBED - no signs of any machin	not included in heavy COMPACTION or UNDISTURBED.
DISPLACED - any place soil has been	mounded by machinery, also include in heavy or
light compaction.	
SMZ - include within transect if wit	thin harvest unit. 5/93

Upper TRANSECT SUMMARY FORM 2 | Transect 3 | Transect 4 | Transect 5 | TOTALS D HEAVY 6 s LIGHT u UNDISTURB 405 68 73 592 100 100 275 100 TOTALS DISPLACED 36 6 EROSION 0 PUDDLED 0 SMZ ROCK BURN PILES



TRANSECT SUMMARY FORM

08/13/1997 42201147 KOOTENAI NATIONAL FOREST Three Rivers - Mud Little SOIL DISTURBANCE DATA FORM Unit 7 42201147 DATE CUTTING METHOD Dispursed Skidding SKIDDING METHOD HAZARD TREATMENT MANGE SILVICULTURAL TREATMENT 422-01-147 16/18 COMPACTION (Heavy) 🗷 🛴 TREET BOND ON A DOD DOOR IN MED MED MED MES UNDISTURBED II KU DISPLACED EXCAVATED SKID TRAIL SMZ COMMENTS () + IOW Draws Repression except for rock ril in SE partion. SHAPE OF UNIT AND PATTERN OF TRANSECT

COMPACTION(Heavy) - any place where future vegetative growth will be significantly impacted, i.e., skid trails (both heavily and lightly used depending on amount of compaction related to soil moisture), landings, and other impacted areas.

COMPACTION(Light) - any other area not included in heavy COMPACTION or UNDISTURBED.

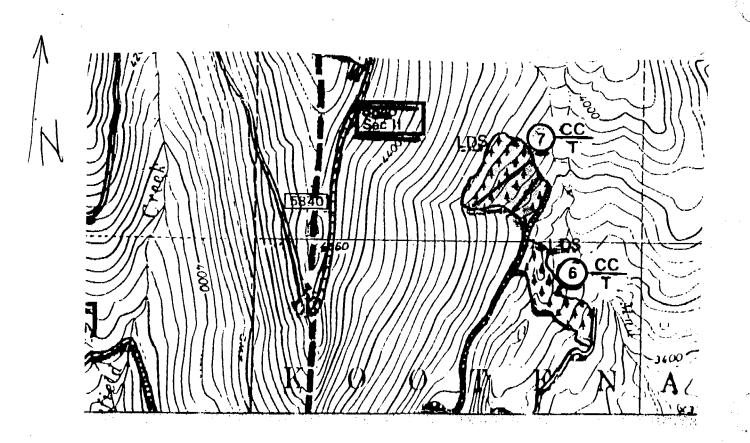
UNDISTURBED - no signs of any machinery or skidding activity.

DISPLACED - any place soil has been mounded by machinery, also include in heavy or light compaction.

SM2 - include within transect if within harvest unit.

lower Upper TRANSECT SUMMARY FORM

	Transe	ect 1	Transe	ect 2	Trans	ect 3	Trans	ect 4	Trans	ect 5	TOTA	ALS
	Pts.	ક	Pts.		Pts.		Pts.	ક	Pts.		Pts.	%
HEAVY	16	9	18	6	 						34	8
LIGHT	110	63	175	69						[	285	66
UNDISTURB	50	28	65	25		<u> </u>					115	26
OTALS	176	100	258	100		<u> </u>		<u> </u> 	<u> </u>		434	100
					<u> </u>							
DISPLACED	8	5	3	1_	[ 						11	3
EROSION				·			1					0
PUDDLED						<u> </u> 			İ			0
SMZ												
ROCK	16	9	0	$\dot{\mathcal{D}}$			]				16	4
BURN PILES		-	-	<del></del>			1		1			·



09/26/1997 Three Rivers - Pulpit FIre Salvage Unit 6 45404129

# 45404129

KOOTENAI NATIONAL FOREST SOIL DISTURBANCE MONITORING FORM

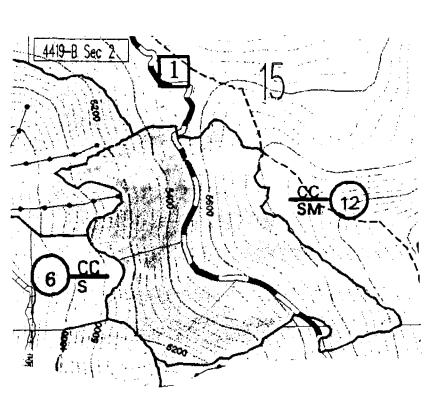
STRICT Three Rivers (In It tractor: dispersed dedicated SALE/S.A. Pulpit File Saling HAZARD TREATMENT ST Seed Unit # Le Roies 58 SILVICULTURAL TREATMENT CO.  H.T. SAT/Vag/w/smil SAF/Xe/OPERATION PERIOD July Aug - 97
Unit # 6 Kores 58 SILVICULTURAL TREATMENT CC H.T. SAF/Vag/w/some SAF/Xepperation Period July Hug - 97
Unit # 6 Kc.es 58 SILVICULTURAL TREATMENT CC. H.T. SAF/Vag/w/smil SAF/Xepperation Period July Aug - 97
Slope <u>50-76</u> / 4-84F/Mefe 454-04-129.
COMPACTION (Heavy)
COMPACTION (Light) 256
UNDISTURBED 640
DISPLACED 20
EXCAVATED SKID TRAIL
SMZ/ROCK
COMMENTS Shelling corridors not nearly as pronounced as in Unit 14,
Dring-through dips need to be at an angle
Cut slope hist doughered
SHAPE OF UNIT AND PATTERN OF TRANSECT
SHAPE OF UNIT AND PATTERN OF TRANSECT
unit 12 recontonced tamp. rd.
unit 12 recontonced tamp. rd.
unit 12 recontonced tamp. rd.
unit 12 recontonced tamp. rd.

MPACTION (Heavy) - Any place where future vegetative growth will be significantly impacted, i.e., skid trails (both neavily and lightly used depending on amount of compaction related to soil moisture), landings, and other impacted areas. COMPACTION (Light) - Any other area not included in heavy COMPACTION or UNDISTURBED.

UNDISTURBED - No signs of any machinery or skidding acitvity.

<u>DISPLACED</u> - Any place soil has been mounded by machinery, also include in heavy or light compaction. <u>SMZ</u> - Include within transect if within harvest unit.

	Transec	t 1	Transec	t 2	Transect	3	Transect	4	Transec	t 5	TOT	ALS ~
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
D HEAVY i	3	,3								, <u>, , , , , , , , , , , , , , , , , , </u>	3	.3
s LIGHT t	256	28									256	28
u UNDISTURB r		72									640	72
totals	899	100									899	100
DISPLACED	20	2									20	2
EROSION												0
PUDDLED										_		0
SMZ												
ROCK				•		*				-		
BURN PILES		:										



09/26/1997 Three Rivers - Pulpit FIre Salvage Unit 12 45404128 45464128

KOOTENAI NATIONAL FOREST SOIL DISTURBANCE MONITORING FORM

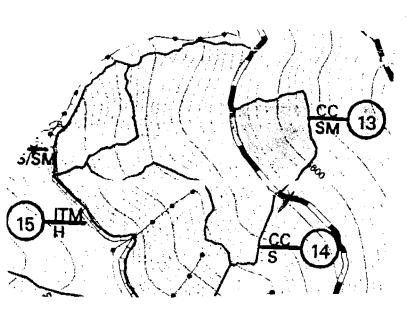
DATE	Sept	26.199	7	CUTTING M	<b>METHOD</b>	Clipper	د		
ગ્BSERVER	TR	idnie	n	SKIDDING I	METHOD		trac	tor	
ISTRICT	Three	River		If tractor:		dispersed		tor dedicated	
SALE/S.A. ${\it 1}$	relpit !	Tie Sal	lvage	HAZARD TE	REATMENT				
Unit #	Acres	40		SILVICULT			· · · · · · · · · · · · · · · · · · ·		
H.T. SAF	Kete w/	SAE/M	010			wenter	Hov.	96	
Slope //	0 - 35	<del></del>		454	1-04-	128			
COMPACTION	ч (Heavy) _	10			· · · · · · · · · · · · · · · · · · ·				
COMPACTION	کے (Light)	145							
JNDISTURBE	D .5.5.2								
ISPLACED	35								
XCAVATED		7							
MZ/ROCK _		_/							
Herberr Val	ies bet	on re-	te e	tinge !	ge, has	thweek on	rative	). Some skortlebe logs on g	sry. Ligene
leaber uff var all not cavates	e also y & will ies bel frum. trail	on se ween	te, e blace nd. sh	tings of	pulled	thweek (	netice will	). Some skortlebe loge on g	V.gene
derbern Juff Varl Most cavates	· also  y + will  ies bet  frum.  trail	have Xe ou se ween	bleen sh	tings ()	ge, has	thweek (	retire	). Some skortlebe lige on g	V.gene
lderberr luff var id not cavates	e also of will ie bet burn. trail	houre XC our se ween	te, e bluen	tings of tank of	ge, has	Shweel () in the constant of t	native in the second	). Some skortlebe logs on g	V. gene
derbern Luff Varl Mot not cavates	· also + will ies bet furn. + rail	hove XC	d. sh	tings (	ge, has	Shweek (	native	). Some	J. gene
Lesbern Juff Varl Montes Cavates	e also y & will ies bet burn. I trail	have Xe	to, e aprove hbsen rd. sk	tings of tark so	ge, has	Shweek (	native of	). Some skortlebe loge on g	V. gene
Lesberr My Var Martes	e also of will ie bet burn. trail	have Xe	te, e absen		ge, has	Shweel (	native,	). Some	V. gene
HAPE OF UN	ies hel	TERN OF	TRANSE		ge, hand	Shweel () in gu	native in the second	). Some	V. gene
HAPE OF UN	ies bel	love I	TRANSE		ge, has	thweek (	native of the second of the se	). Some	V. gene
HAPE OF UN	ie bet	TERN OF	TRANSE		ge, has	Shweel () in the same of the s	native,	). Some	V. gene
HAPE OF UN	ies hel	TTERN OF	TRANSE		ge, has	Shweel (	native in the second se	). Some	V. gene
HAPE OF UN	ies bet	TERN OF	TRANSE		ge, has	bach.	native in a series of the seri	). Some	V. gene
HAPE OF UN	ies bel	TTERN OF	TRANSE		ge, has	Shweel ()	native,	). Some	V. gene
HAPE OF UN	IT AND PA	TTERN OF		€CT	ge, has	Howell grand, to	native,	). Some	V. gene
HAPE OF UN	IT AND PA	TTERN OF	TRANSE	€CT	pulled probled	Howell grand, to	native,	). Some	J. gens
HAPE OF UN	ies bel	TTERN OF		€CT	pulled consent	bach.	native in a series of the seri	). Some	J. gens
HAPE OF UN	ies hel funn. trail	TTERN OF		€CT	se, has	Jack,	native in the second of the se	). Some	J. gene
HAPE OF UN	IT AND PA	TTERN OF		€CT	pulled assert	bach.	native in a series of the seri	). Some	J. gens
HAPE OF UN	also fries will furn. I trail	TTERN OF		€CT	se, has	Jack,	native in the second of the se	). Some	J. gene
HAPE OF UN	The stand of the s	TTERN OF		€CT	ge, has	Hweel Grand June 1. F.	native in the second of the se	). Some	l. gene

MPACTION (Heavy) - Any place where future vegetative growth will be significantly impacted, i.e., skid trails (both neavily and lightly used depending on amount of compaction related to soil moisture), landings, and other impacted areas. COMPACTION (Light) - Any other area not included in heavy COMPACTION or UNDISTURBED.

UNDISTURBED - No signs of any machinery or skidding acitvity.

<u>DISPLACED</u> - Any place soil has been mounded by machinery, also include in heavy or light compaction. <u>SMZ</u> - Include within transect if within harvest unit.

	Transect	1	Transect		Transect	3	Transec	t 4	Transec	t 5	TOT	
	Pts.	%	Pts.	<del>_</del> _	Pts.	%	Pts.	%	Pts.	%	Pts.	%
D HEAVY	8	3									8	3
s LIGHT t	66	25		,							66	25
u UNDISTURB r	194	72									194	72
b TOTALS	268	100									268	100
DISPLACED	10	4									10	4
Excavated true	15	2							-		5	2
PUDDLED												٥
SMZ												
ROCK												
BURN PILES				•								



09/26/1997 Three Rivers - Pulpit FIre Salvage Unit 14 45404231

# 45404231

KOOTENAI NATIONAL FOREST SOIL DISTURBANCE MONITORING FORM

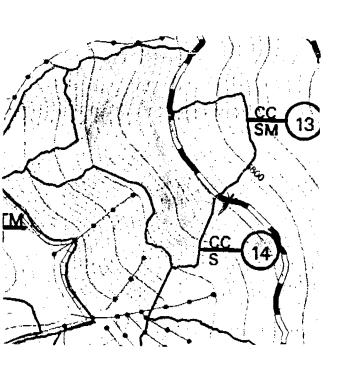
DATE 5	cept. 26 199	7 CUTTING METHOD	Hand	
BSERVER	Kuennen	SKIDDING METHOD		
STRICT - SALE/S.A. <b>Pub</b>	three Rivers	If tractor: HAZARD TREATMEN	dispersed	dedicated
Unit # 14	pt fue Salvag Acres 46	SILVICULTURAL TRE		
H.T. SAF/Xet	e/Vag/ -> SAF/M	Te OPERATION PERIOR	Aug-Oc	4. 197
Slope <u>SO-</u> COMPACTION (F	70/	- 454-04-	231	·
	16avy) <u>//</u>			
COMPACTION (L	ight) 4 <u>5</u>			, , , , , , , , , , , , , , , , , , ,
UNDISTURBED	529			
	23/			
DISPLACED	50			
EXCAVATED SKI	ID TRAIL			
SMZ/ROCK				
COMMENTS (S.		· O. M. Tina	-0	+1. +5.
as each su	h luce lots M	dieso larlo un	Desatare) wh	in will all a reen
Ziablemo, L	leave all Is	luffice debris.	Seven Shil	ling comson on
vesting of	unit net wi	telbanes, two o	neastend.	Most of waterbase
en and	med across	corridor enem	4-5 waters	, a log Should king
and form 5	how lots of or	& surface fall	ingo. Dymn	good thing road
ud hot go	gry further.	There will be all	my of slowing	thing the way it is
to the asse	et rolls me	us a and to the	northwest	Mele becomes to
daminki	t understor	, Stand was	180-220 year	ers fald.
ach corridor	8-12" dogg, 3	-4" excavation 4	15-8" of ver	m:
SHAPE OF UNIT	AND PATTERN OF TR	ANSECT		
			4419	
			494	
		/		
/\	. +	Unit 13		
}	-twised	luit 14		
	रद्धाः ।			
/			`~	
}				
Į.				
	\			
Nn.,		anti-		

<u>MPACTION (Heavy)</u> - Any place where future vegetative growth will be significantly impacted, i.e., skid trails (both neavily and lightly used depending on amount of compaction related to soil moisture), landings, and other impacted areas. <u>COMPACTION (Light)</u>—Any other area not included in heavy COMPACTION or UNDISTURBED.

UNDISTURBED - No signs of any machinery or skidding acitvity.

<u>DISPLACED</u> - Any place soil has been mounded by machinery, also include in heavy or light compaction. <u>SMZ</u> - Include within transect if within harvest unit.

	Transec	t 1	Transec	t 2	Transect	3	Transec	4	Transec	t 5	TOT	ALS
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%/
D HEAVY i	10	2									10	2
s LIGHT t	45	7									45	7
u UNDISTURB r	539	91									539	91
totals	594	100									594	100
						<u> </u>						
DISPLACED	50	8									50	8
EROSION												0
PUDDLED										, a sure		0
SMZ												
ROCK												
BURN PILES												



Transect was run at slope bruch were most of displacement has occurred. Percent is not reprentative of total unit. Lees than 1/2 of B %. SOIL DISTURBANCE DATA FORM

DATE 7.15.97	CUTTING METHOD Hand
OBSERVER Kuennen	SKIDDING METHOD Tractor
DISTRICT Libby	HAZARD TREATMENT mone
SALE Brush Salvage Firm	SILVICULTURAL TREATMENT Salvage IT
Unit No. 3 26 Acr	OPERATION PERIOD SILM man '91.
SAF/Vaca-SAF/Vag	
COMPACTION(Heavy)区区L	
COMPACTION(Light) A A A A A A	
	ABBBBBBB
UNDISTURBED XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	145 140
DISPLACED	
EXCAVATED SKID TRAIL Eroded	<u> </u>
SMZ Ø I	7
COMMENTS Romand do ad + days	
Operated into fall wet	period .
Landing ripped.	to be water barred. Pull febris into Frank
Debris left in Litch line	ssing 4 mash down.
CHAPP OF HALT AND PATTERN OF TRANSE	CT
1451	To the same of the
1000mm 10000mm 1000mm 1000mm 1000mm 1000mm 1000mm 1000mm 1000mm 1000mm 10000mm 10000mm 10000mm 10000mm 10000mm 10000mm 10000mm 10000mm 100000mm 10000mm 100000mm 1000000mm 100000000	
3 SD	1.
there	future vegetative growth will be significantly

Le.; skid crais (both heavily and lightly used depending on amount of

compaction related to soil moisture), landings, and other impacted areas.

COMPACTION(Light) - any other area not included in heavy COMPACTION or UNDISTURBED. UNDISTURBED - no signs of any machinery or skidding activity.

DISPLACED - any place soil has been mounded by machinery, also include in heavy or light compaction.

<u>SMZ</u> - include within transect if within harvest unit.

pretransect SUMMARY FORM D HEAVY í s LIGHT 3 26 23 23/29 u UNDISTURB 80 72 55 69 45 30 210 54 TOTALS 00 100 100 98 100 390 DISPLACED 20 20 20 25 EROSION 19 72 PUDDLED 0 SMZ O ROCK BURN PILES

08/19/1997 Libby - Peace Alexander Salvage Unit 16 55103038

# 55103038

KOOTENAI NATIONAL FOREST SOIL DISTURBANCE DATA FORM

DATE \$.19.97	CUTTING METHOD And	
OBSERVER L. Kuennen	skidding method High track	e cat
DISTRICT Libby	HAZARD TREATMENT Mone	Add the second of the second o
SALEPeace Alexander Salva	SILVICULTURAL TREATMENT SD	-removing dead LPP
Unit No. 6 Fa  Acres  Habitat Type SAF/Mete - SAF	OPERATION PERIOD Summ	n 97
601-03-039 55	1-03-03, 10 pe 20-35	3
Trans.2 Trans.3		
COMPACTION (Light) Trans.1 🛮 🗷 Trans.2		65
Trans.3 UNDISTURBED Trans.1		5⊋
Trans.2 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		50
DISPLACED AL		15
EXCAVATED SKID TRAIL		
COMMENTS Several scattered h	IN + WEN	
Soil: 8-10" of ash over	till residual, Lots of angu	lar rock in metrix
1450 maring	The same of the sa	
		(
SHAPE OF UNIT AND PATTERN OF TR	SO Travel	J.
20 0	SO 175	The ed
		Rd 12B
48/2	4869	7 //
N SD SD	X-XXXXX	
COMPACTION (Heav )	getative growth will	be significantly
impacted, i.e.,	lightly used depend: , and other impacted	ing on amount of
COMPACTION (Light) - any other a UNDISTURBED - no signs of any m	nice not included in heavy COMPACTION achinery or skidding activity.	ON or UNDISTURBED.
<u>DISPLACED</u> - any place soil has light compaction.	been mounded by machinery, also inc	clude in heavy or
SMZ - include within transect i	f within harvest unit.	5/93

5/93

	Tran	sect 1	100									
	Pts.		<u>llran;</u>  P+e	Sect 2	Trans	ect :	Trans	ect 4	Trans	ea+ 1	5 TOT	
D HEAVY	! -		1	<u> </u>	IPts.	<u> </u>	Pts.	ું ક	Pts.	%	Pts.	ALS
s LIGHT	3	3	10	10	1			1			<u> </u>	<u> </u>
t	165	54	160	1	<del></del>	<del> </del>	<del></del>	<del></del>	<del> </del>	<del> </del>	<u> </u>	
u UNDISTURB	T		<del>!</del>		1	<u> </u>	i	1	j !	ļ	100	
F	52	143	50	11/6	ļ ·	!			<del> </del> -		125	34
COMP C	<del></del>			170	<del> </del>	<u> </u>	L	Ĺ			102	44
TOTALS	120	100	110	100	<u> </u>		<u> </u>					
_	! !	!!!									230	100
DISPLACED	<del></del>	<del>                                     </del>		<u> </u>			i 1	ļ	ļ			
i	15	13	15	14	Ī	1	I					
EROSION		7 - 1	<del>-/ </del>	<del>-7-</del>		i		}	1	ĺ	30	13
PUDDI	i	<u>i</u>		- !	1	:		-				<del>-/                                    </del>
PUDDLED	!	T				<u> </u>			<u>i</u>			0
SMZ		—— <u> </u>	—— <u>İ</u>	<u>i</u>	i	İ	- 1	1	!	Ī		
	1	-	!	ĺ						<u>-</u>		0
ROCK									l I	i :	!	- 1
		;		ļ	ļ	ļ				— <u>-</u>	!	
BURN PILES	1			<del></del> -	<del></del>			<u>i</u> _			i	[
						}	ļ	!		1		<del></del>
	- 71					———		1	1	j	;	!

08/19/1997 Libby - Peace Alexander Salvage Unit 17 55103068

55105068

KOOTENAI NATIONAL FOREST SOIL DISTURBANCE DATA FORM

DATE 8.19.97	CUTTING METHOD hard	
OBSERVER L. Kuennen	skidding method high Trac	
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
DISTRICT LIBBY	HAZARD TREATMENT	1100
SALEPeaceHexander Salvage Unit No17 Farmer	SILVICULTURAL TREATMENT 5D-remove dear	X L F F
Acres Habitat Type SAF Like - SAF //ag/	OPERATION PERIOD Summer 97	
601-03-068 551-03	Slope: 10-3076	
COMPACTION (Heavy) Trans.1: Trans.2		2
Trans.3	K) I	<i>63</i>
COMPACTION(Light) Trans.1		
Trans.3 UNDISTURBED Trans.1		63
Trans.2		
Trans.3 DISPLACED ØØ		20
EXCAVATED SKID TRAIL		
SMZ		
SPIA.		_
COMMENTS The big question recomes w	hat to do w/ the shed trail. Should it	rest
it as partly the transportation	n sighten. I'm not sure that the	
Even though the water bars are	very large some of them are	- 1
the and at the bar was mo	t carried for knows and the tro	el.
mare take on the		C.D-121_L-13
just the four en	day shedtrail.	CONCLO
Soil: Ash over tillfresident. Mostly	engular rock in matrix.	COMP
Soil: Ash over tillfresident. Mostly SHAPE OF UNIT AND PATTERN OF TRANSECT		Comila
	transect.	conces
	transect.	Q shid
	transect.	12 shid
	transect.	12 shid
	transect.	12 shid

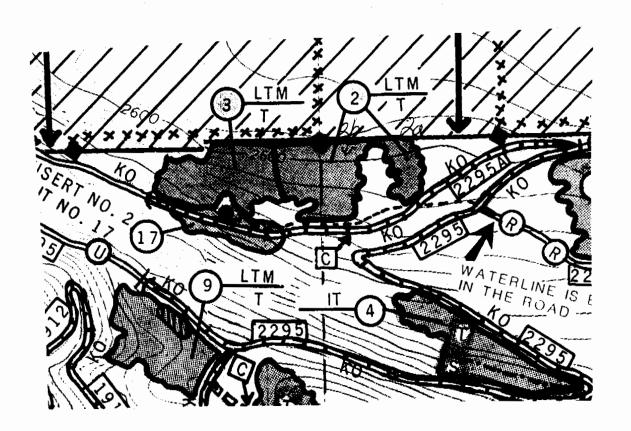
<u>COMPACTION(Heavy)</u> - any place where future vegetative growth will be significantly impacted, i.e., skid trails (both heavily and lightly used depending on amount of compaction related to soil moisture), landings, and other impacted areas.

COMPACTION(Light) - any other area not included in heavy COMPACTION or UNDISTURBED. UNDISTURBED - no signs of any machinery or skidding activity.

<u>DISPLACED</u> - any place soil has been mounded by machinery, also include in heavy or light compaction.

SMZ - include within transect if within harvest unit.

	Transe	ect 1	Transe	ect 2	Transe	ect 3	Transe	ect 4	Transe	ect 5	TOTA	LS
	Pts.	ક	Pts.	ક	Pts.	ક	Pts.	왕	Pts.	ક	Pts.	e
D HEAVY i	0		2	3	·  -		 				2	1
s LIGHT t	15	23	23	30	 	l L					38	28
u UNDISTURB	50	ĺ	50	67							100	7/
b TOTALS	65	100	75	100	<u> </u>		] 				140	100
	]		<u> </u>		<u> </u>			ļ				
DISPLACED			1	1		\ 				l 1		0
EROSION												0
PUDDLED												0
SMZ										) 		
ROCK												İ
BURN PILES												



07/15/1997 Cabinet - Beaver Peak Resell Unit 2B 71501035

### 11501035 KOOTENAI NATIONAL FOREST SOIL DISTURBANCE DATA FORM

ATE 7. 29.97	CUTTING METHOD Hand	
OBSERVER / Le	SKIDDING METHOD Tractor dis	oersed
DISTRICT Cabinet	HAZARD TREATMENT	
SALE Reaver Ph Resell	SILVICULTURAL TREATMENT Seed tree	
Unit No. 36 west 16 Ac	operation period Winter 95-97 res Slope 5-20	
COMPACTION(Heavy) ;;		4
COMPACTION(Light)		80 120
UNDISTURBED AND AND AND AND AND AND AND AND AND AN	<b>N</b>	
DISPLACED		
EXCAVATED SKID TRAIL		
SMZ		
COMMENTS / Daging: 588	some 3-4 yr. old seedle mas ess.	Turel.
Regen: Pico, Psime, Pipo, La	oc, Abgr, Tshe, Pimo	
Unit generally less Than 30	on slove, mostly <10.	
		_ <del></del>
SHAPE OF UNIT AND PATTERN OF TRANSE	CT 2295A	
Unit 26 Island Unax	+3	
1)	Ø!	
(2)		
COMPACTION(Heavy) - any place where	future vegetative growth will be significant	.ly
impacted, i.e., skid trails (both he compaction related to soil moisture	eavily and lightly used depending on amount o ), landings, and other impacted areas. not included in heavy COMPACTION or UNDISTURB	£
UNDISTURBED - no signs of any machi	nery or skidding activity. mounded by machinery, also include in heavy	
light compaction.  SMZ - include within transect if wi		

07/29/1997 Cabinet - Beaver Peak Resell Unit 2B 71501035

MOOTENAI NATIONAL FOREST SOIL DISTURBANCE DATA FORM

NTE 7.29.97	CUTTING METHOD Have	&
OBSERVER KULL	SKIDDING METHOD Trac	to dispersed
DISTRICT Cabinet	AAT HAZARD TREATMENT	?
SALE Beaver Ph Res Unit No. 26 west		
/	16 Acres Slope 5-20 Winter	95-97
COMPACTION(Heavy) ; ;		4 6
COMPACTION(Light) A A A A A A A A A A A A A A A A A A A		80 120
UNDISTURBED MANA AND SECOND STURBED MANA AND SECOND		110
DISPLACED		
EXCAVATED SKID TRAIL_		
SMZ		
COMMENTS () De loggin s	500 same "-4 ye all sinell	Vine con Varel
Control of the state of the sta	o, Jaoc, Apar, The, Pimo	
Unit generally less Than	20 % slave, mostly <10.	
SHAPE OF UNIT AND PATTERN OF T	RANSECT 2295A	
Leave ;		
Unit 26 Island	11 ta	
7) (west)	and 5	
(2)	<del>@</del> 1	
=======================================		
	where future vegetative growth will both heavily and lightly used depend	
compaction related to soil moi	sture), landings, and other impacte	ed areas.
	area not included in heavy COMPACT machinery or skidding activity.	LON OF UNDISTURBED.
DISPLACED - any place soil has	been mounded by machinery, also in	nclude in heavy or
light compaction. SMZ - include within transect	if within harvest unit.	5/93

Trans	ect 1	Transe	ect 2	Transe	ect 3	Transe	ect 4	Transe	ect 5	TOTA	LS
Pts.	8	Pts.	ક	Pts.	용	Pts.	ક	Pts.	ક	Pts.	કે
4	2	6	3			[	<u> </u>			10	2
80	41	120	58		]			<u> </u>		200	50
110	57	80	39							190	48
194	100	206	100	<u> </u>				<u> </u>		400	100
	 	 						 	<u> </u> 		
! !	t I		1		   						1
<u> </u>		<u> </u>						-			
<u> </u>			<u> </u>		 						
<u> </u>		1				_			- *	-	<u> </u>
<u> </u>	1	ļ			<del> </del> _	<u> </u>	1	<del> </del>	<del></del> _	<del> </del>	<u>                                     </u>
	86 110	Pts. \$ 4 2 86 41 110 57 194 100	Pts. & Pts. 4 2 6 86 41 120 110 57 80 194 100 206	Pts. \$ Pts. \$ 4 Z 6 3 8	Pts. \$ Pts. \$ Pts. 4  Pts. 4  Z	Pts. \$ Pts. \$ Pts. \$   Pts.   \$	Pts.	Pts. \$ Pts. \$ Pts. \$ Pts. \$ Pts. \$   4   2   6   3	Pts.   Pt	Pts. \$ Pt	4       2       6       3       10         80       41       120       58       200         110       57       80       39       190         194       100       206       100       400

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			.,, -									воск
	<u> </u>		]									ZWS
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								 				EKORION
												DISPLACED
	-				!   			<u> </u>		<u> </u>		SJATO
									1	İ		
									1	İ		BAUTZIGNU
	<u> </u>					   		_				LIGHT
	į				l 							HEVAL
ક	.sjq		Pts.	•	, sja		. sag	οţο	Pts.	8	.sjq	
ALS	TOT	≥ <u></u> <u></u> <u></u> <u></u>	Transe	₽ 10:	Transe	E ⊅≎:	FERBIL	2012	Transe	1 756	Trans	

DATE 7.29.97

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Hand Tractor-dedicated trails

The second secon

OBSERVER KUCHNEN	Tractor-	- dedic
DISTRICT Cabinet 7/5-06-034		
SALE Beaver Pk Recentit # 3 17 Acres	winter '	96-97
H.T WH/Clun slope - 51-45%		
COMPACTION HEAVY N		<u></u> 9
COMPACTION LIGHT A A A A A A A A A A A A A A A A A A A		210 230 
UNDISTURBED A A A A A A A A A A A A A A A A A A A		LI 267 200
ADD DDD C C C C C C C C C C C C C C C C		
DISPLACED/Publed L		5
		s
EXCAVATED SKID TRAIL		
SMZ/Bdy, loop BBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB		- <del>1 </del>
COMMENTS Crossed two Surface flows w/i 150's Replace excavated Trail Helong stream flow in	NW comer of	ly.
Western portion of unit 35-45% slope. Most also scattered apprings + streams	U	

SHAPE OF UNIT AND PATTERN OF WALK THROUGH.

_	Transe	ect 1	Transe		Trans	ect 3	Trans	ect 4	Trans	ect 5	TOTA	ALS
	Pts.	ક	Pts.	8	Pts.	ક	Pts.	ક	Pts.	ક	Pts.	ક
HEAVY	9	2	20	4	<u> </u> 	<u> </u>			<u> </u>		29	3
LIGHT	2/0	43	230	51		 		<u> </u>		<u> </u> 	440	47
UNDISTURB	267	55	200	45	<u> </u>		<u> </u>	<u> </u>		 	467	50
OTALS	486	100	450	100							936	100
	<u> </u>	 	<u> </u>	<u> </u>	<u> </u>	 	<u> </u> 		<u> </u>		<u> </u>	
DISPLACED	3	1	10	2				 		<u> </u>	13	/
EROSION	1											0
PUDDLED	2	,5	3	,5	1						5	.5
SMZ												
ROCK				<del> </del>						•		
BURN PILES												

08/05/1997 Rexford - North Fork West FIre Salvage Unit 26 11204221	1120421 KOOTENAI NATIONAL FOREST SOIL DISTURBANCE DATA FORM
DATE 8-5-97	CUTTING METHOD clipper
OBSERVER Lemen/Sulh	van SKIDDING METHOD RTS
DISTRICT Reford	HAZARD ABATEMENT Julgat burn '98
SALENF West Fire Sal	HAZARD ABATEMENT Julgat burn '98  vage SILVICULTURAL SW Seed/ reserve
Unit No. 76 43 A 45-531 Ele-4800 As No.	OPERATION PERIOD Dec 196/Jan 197
COMPACTION(Heavy)	
	Walk-through
COMPACTION (Light)	
UNDISTURBED	
DISPLACED	
EXCAVATED SKID TRAIL	
SMZ/ROCK	,
COMMENTS Wenter op	eration-looks very good

Shape of Unit and Pattern of Transect

08/05/1997 Rexford - Bunker Hill Flre Salvage Unit 8 11203074

### 11203074 KOOTENAI NATIONAL FOREST SOIL DISTURBANCE DATA FORM

	DATE 8-5-97	CUTTING METHOD hand/ clipper.
	OBSERVER Leernen Sulliva	ASKIDDING METHOD Cable
	DISTRICT Restord	HAZARD ABATEMENT Jackpet burn '98
	SALE Bunker Hill Enes	MISILVICULTURAL SW seed/reserve
1 47:	Unit No. <u>B</u> 43A T-620, Ele-5100, As-W	OPERATION PERIOD Dec '96/ Jan '97
, FI /	COMPACTION(Heavy)	ι /
i		Walk- through
	COMPACTION (Light)	
	UNDISTURBED	
	DISPLACED	
	EXCAVATED SKID TRAIL	
	SMZ/ROCK	
N Samuely and	COMMENTS peration	
	- Vince operation	
1		
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,		
<b>,</b>	Shape of Unit and Pattern of Transect	
		8 50
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	·a	The contraction of the contracti

02/12/1997 Fhree Rivers - Zimm Hill FIre Salvage	42402192
Jnit 43 12402192	KOOTENAI NATIONAL FOREST SOIL DISTURBANCE DATA FORM
DATE 2/12/97	CUTTING METHOD Clipper/hand
OBSERVER Mennen / Mre	eller SKIDDING METHOD RTS/Cable
DISTRICT Three Rivers	HAZARD ABATEMENT burn grapplepiles '98'
SALE Zimm Hill Fine Sal	lvage SILVICULTURAL ST seed cut
Unit No. <u>43</u> 71A 7-571	OPERATION PERIOD Lan 97
COMPACTION(Heavy)	Aspect: E
COMPACTION (Light)	Walk-through
UNDISTURBED	
DISPLACED	
EXCAVATED SKID TRAIL	
SMZ/ROCK	

Shape of Unit and Pattern of Transect

United States Department of Agriculture Forest Service Kootenai NF

506 US Highway 2 West Libby, MT 59923

Reply To: 2430

2550

Date: June 4, 1997

Walk through

Subject: West Yaak Proposal

To: District Ranger, D4
Attn: Leslie Ferguson

Leslie Ferguson, Hilaire Bojonell, and Louis Kuennen made on-site visits to Units 53A, 53B, 19, & 24 on May 30, 1997 and Units 5, 8, 10, & 11 on June 12, 1997, of the West Yaak proposal. One of the concerns is related to the impact of past activities. All of the units concerns is related to the impact of past activities. Put information eggether for the West Yaak EA one of the resources to be discussed is the soil, specifically soil compaction. The method used in dealing with impact to the soil in previously logged tractor units is to apply a percentage factor for the skidding and the hazard abatement. Usually these activities were done with tracked vehicles. The percentage of ground impacted was at least 15. Fifteen percent is the Kootenai National Forest's limit for significant soil impact. Naturally very little amelioration occurs. This means that future operations will increase the soil impacts beyond the accepted limits.

An on-the-ground review was done to determine just exactly what the total past activity impact was. <u>Units 53A</u> and <u>53B</u> are adjacent to each other. The past activity in both consisted of constructing excavated skid trails and removing scattered trees. It appears that no operations occurred off the trails. It is estimated that less than 5 percent of the area was previously impacted, mainly because only scattered trees were removed. This means that the current proposal could add ten percent of significant soil impact and stay within the Forest quidelines.

For the above two units the habitat type is Douglas-fir/dwarf huckleberry. The landtype is 355. Landtype 355 is described as moderately deep soil with a higher rock content than the "normal" glacial till on the Forest. The soil within the two units contains 50 to 75 percent rock. Some of the rock (the source is both metasedimentary and igneous) is subrounded and subangular and some is angular. The angular rock is located at or near the surface. Activity impact to the soil will be less than normal in these two units because of the large amount of rock. The high rock content creates a droughtier soil and may have a limiting effect on the size and productivity of shrubs.

The amount of excavated trails in <u>Unit 19</u> is greater than in Units 53A and 53B, so the significant soil impact is greater. Current activity will need to remain on the existing trails. <u>Unit 24</u>, unlike the other units, generally has a uniform slope which is less than 30 percent. This unit has several old skid trails that were used to salvage in the past. The volcanic ash surface is fairly deep (12 - 18 inches) and contains few rock. This soil is very compactible. Also, the site is such that it will remain wetter than the accepted 18 percent soil moisture used for machinery activity. It is agreed that cabling is the proper method of log removal from this unit.

<u>Unit 8</u> is very similar to Unit 24--deep volcanic ash, uniform slope, but better drained. This unit has existing trails. <u>Unit 5</u> (includes what was referred to as Unit 4 of the Pete Creek Proposal memo of June 21, 1991) has deep volcanic ash and broken slopes. Several streams also flow through the unit--some are a

result of piped flows from Rd. 5919C. The north end of the unit contains populations of sensitive Botrychium species. This unit has devil's club scattered throughout.

A natural opening divides <u>Unit 11</u> and extends from the upper road almost to the lower road. I can't completely explain the opening, but it has been there a long time as indicated by the depth of the dark surface soil. The lower end of Unit 11 is very wet, especially west of the opening, as indicated by an almost continuous covering of devil's club. Also very few western white pine were seen in the area. A population of sensitive Botrychium is present just below the upper road east of the opening. <u>Unit 10</u> contains many more stems of western white pine and generally is drier than Unit 11.

A lot of surface flow is coming from the all the roads within the area of the proposal. As a result fines are being washed from the gravel lift, sometimes going directly to a stream. As a resource the surface of the roads need to be protected from erosion.

#### RECOMMENDATIONS:

- 1. Units 53A and 53B can be logged during the summer.
- 2. Any temporary road coming off the Yaak Highway (Units 53A and 53B access) should be recontoured. The power lines that parallel the Highway are not that high above the ground and may provide a hazard to tall equipment.
  - 3. Unit 19 can be summer logged but the previous trails should be used.
- 4. Unit 24 should be cable logged or winter logged. Jackpot piling with an excavator can be done within the same season of log removal. This doesn't mean the entire unit.
- 5. Unit 5 should be cabled, with the north end of the unit dropped to recognize the Botrychium population.
- 6. Unit 8--log in the drier part of the summer and stay on the existing trails.
- 7. Unit 11--drop the area west of the natural opening and exclude the Botrychium area.
  - 8. Include Unit 10 and winter log it.
- 9. Drive-through dips should be placed in the access roads for the West Yaak proposal.

If there any questions, please call.

/s/ Louis J. Kuennen

LOUIS KUENNEN SOIL SCIENTIST 5,8,10,11 suitered were

53H Low 7 102 112 53 W F/ 127 113

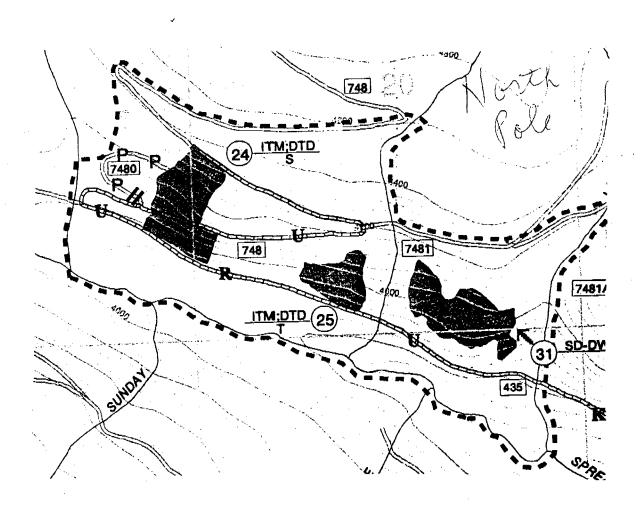
06/12/1997	
Three Rivers - West Yaak (Blistered	Beetle) KOOTENAI NATIONAL FOREST
Unit 5, 8, 10, 11 40902125 40902132	SOIL DISTURBANCE DATA FORM
40901164 40901163	
DATE_6//2/1997	CUTTING METHOD_clipper
OBSERVE Duennen/Boy	onell/Engus KIDDING METHOD RTS
DISTRICT Three Rive	
SALE Blistered Be Unit No. 5, 8, 10	
- Omi 110	OPERATION PERIOD summer 2000
COMPACTION(Heavy)	Walk Throughs
COMPACTION (Light)	
UNDISTURBED	
DISPLACED	
EXCAVATED SKID TRAIL	
SMZ/ROCK	
COMMENTS Past exe	1.1.1
5-4.T-570 El-4000 A	o Botrockiam are
8-H.T571, EL-4000,	As - E, slope - 10-25%; mortality cut
Use winting trail	
10-H.T590 El- 4200	, As-E, slape-15-30%; mortelity cut, grapple pilel
11- H.T. 571 . EL- 4300	, As- SE, slape - 10-25%; mortality cut, gropple piled
Drop wet area west	of natural opening
- Colimato gast &	etrimental at < 5%.
Shape of Unit and Pattern of	Transect
5-40902125,40902	2131: 20A
8 - 40902132	
10 - 4090/164, 4090	
	: 11 A
# - 7010/16D	* /1,//



# 24: 40705129-19A, 40705101-6A

KOOTENAI NATIONAL FOREST SOIL DISTURBANCE DATA FORM 05/30/1997
Three Rivers - West Yaak (North Pole Salvage)
Unit 24
40705101/40705129

DATE 5/30/1997	CUTTING METHOD lipper
OBSERVERKuennen/Bajanell/E	engus SUDDING METHOD RTS
DISTRICT Three Rivers	HAZARD ABATEMENT Burn landing 2002
SALE North Pole Unit No. 24 25A	SILVICULTURAL morbility cut
T570, Ele-3900, As- 5	OPERATION PERIOD Summer 2000
COMPACTION(Heavy)	Walk-through
COMPACTION (Light)	
UNDISTURBED	
DISPLACED	
EXCAVATED SKID TRAIL	
SMZ/ROCK	
Trails were created	ted skill trail present-very scattered. to remove scattered, large trees.
Due to scattered nature oc	consider the excavated trails
less than 5% of a	rea effected.
Mortality cut.	
Shape of Unit and Pattern of Transect	



05/30/1997 Three Rivers - West Yaak (Flaming Whitetail SSAS) 4/0.05/0.7 - 20A

Unit 53 41005107

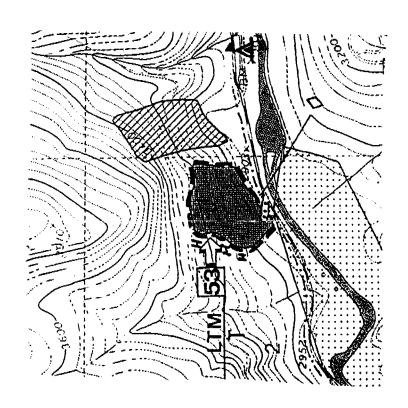
## KOOTENAI NATIONAL FOREST SOIL DISTURBANCE MONITORING FORM

DATE 5/30/1997	CUTTING METHOD	clipper	
OBSERVERKnannen/Bojonell/Fa	SKIDDING METHOD	Trector	
DISTRICT Those Rivers	SKIDDING METHOD	dispersed dedicated	
SALE/S.A. Flaming White tail	ろれAZARD TREATMENT	understory burn 2000	
Unit # 53 Acres 20	SILVICULTURAL TRMT	•	
H.T. 250	OPERATION PERIOD	Summer 1999	
Slope 25-40%	Aspect i 🗲		
Location lower slope	Elevation I 3200		
COMPACTION (Heavy)			
PAST ACTIVITY			
COMPACTION (Light)			
UNDISTURBED	Year Ame		
The state of the s			W 21.9/m
DISPLACED		A	
EVOLUTED OVER TRAIL		THE NAME OF THE PARTY.	
EXCAVATED SKID TRAIL		T P I A A A A	- Wal
0.47/0.00/		100	
SMZ/ROCK			
COMMENTS (Included)	:- d-b-:- 1 0		
COMMENTS (Include soil, geology, organ	ic debris-large & small, eros	ion, road drainage, other pertinent inf	<u>o)                                    </u>
T. (1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A 1	- / /	
- Creavelly True &	recent from	part scattered to	Le,
simonal Vegenell	by less / thank	5 to part detrime	not of
- flatertance .			
77 37 43 (4)			
1000000			
			<del></del>
SHAPE OF UNIT AND PATTERN OF TRAN	ISECT		

COMPACTION (Heavy) - Any place where future vegetative growth will be significantly impacted, i.e., skid trails (both heavily and lightly used depending on amount of compaction related to soil moisture), landings, and other impacted areas. COMPACTION (Light) - Any other area not included in heavy COMPACTION or UNDISTURBED. UNDISTURBED - No signs of any machinery or skidding activity.

<u>DISPLACED</u> - Any place soil has been mounded by machinery, also include in heavy or light compaction. SMZ/ROCK/BURN PILE - Include within transect if within harvest unit

	Transect	Transect 1 Transect 2		Transect	Transect 3 Transect			Transec		TOTAL"		
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	
HEAVY												
LIGHT									•			
UNDISTURB												
PAST ACTIVITY										ļ 		ļ <u>.</u>
TOTALS												
DISPLACED												
EROSION												
PUDDLED												
SMZ			-	(								
ROCK												
BURN PILES						<u> </u>						



534-41004133-

## KOOTENAI NATIONAL FOREST SOIL DISTURBANCE DATA FORM

05/30/1997 Three Rivers - West Yaak Unit 19 & 53A 40901182/40402115

DATE 5/30/1997	CUTTING METHOD
· /	SKIDDING METHOD
DISTRICT Three Rivers	SKIDDING METHODHAZARD ABATEMENT
ALE West Yash proposal. Unit No. 19453A	SILVICULTURAL
Unit No. 19453A	OPERATION PERIOD
COMPACTION(Heavy)	Walk-throughs
COMPACTION (Light)	
INDISTURBED	
DISPLACED	
XCAVATED SKID TRAIL	
SMZ/ROCK	
COMMENTS Part excavated - 20A, H.T570; Ele-4100, 9-22A, H.T570, Ele-390	
hape of Unit and Pattern of Transect	entered into SOILMON as

13=45303170-39

01/28/1997 Three Rivers - Studebaker FIre Salvage Unit 13 45303170

### KOOTENAI NATIONAL FOREST

	SOIL DISTURBANCE MONITOR	RING FORM
BSERVER DISTRICT SALE/S.A. Fudebaker F Unit # /3 Acres 30 H.T. 624 Slope 40	, S. HAZARD TREATMENT	dispersed dedicated  Lector barn 1998  CC Scedtree  winter 1998
COMPACTION (Light)		
UNDISTURBED		
DISPLACED		
EXCAVATED SKID TRAIL		
SMZ/ROCK		
Spyline pressly  Spyline pressly  Then yard  Operation loo  Lin Carriela	mw/ mil slope pol	e. Yarling to compor snow. E round fragen
SHAPE OF LINIT AND PATTERN	OE TRANSFOT	

MPACTION (Heavy) - Any place where future vegetative growth will be significantly impacted, i.e., skid trails (both heavily and lightly used depending on amount of compaction related to soil moisture), landings, and other impacted areas. COMPACTION (Light) - Any other area not included in heavy COMPACTION or UNDISTURBED.

<u>UNDISTURBED</u> - No signs of any machinery or skidding acitvity.

DISPLACED - Any place soil has been mounded by machinery, also include in heavy or light compaction.

	Transect	1	Transect	2	Transec	3	Transec	t 4	Transec	t 5		ALS
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
D HEAVY												
s LIGHT						,					4 . 4 .	
u UNDISTURB						·						
TOTALS												
DISPLACED				<u>.</u>								
EROSION												
PUDDLED												
SMZ												
ROCK												
BURN PILES												
	<del></del>											

## KOOTENAI NATIONAL FOREST SOIL DISTURBANCE DATA FORM

10/21/1997
Three Rivers - Studebaker FIre Salvage
Unit 18, 9C, 10, 18
45303159 45303178
45303145 45303134

DATE 10-21-97	CUTTING METHOD 45303145 45303134
OBSERVER Kuennen	SKIDDING METHOD Shyline
DISTRICT Three Rivers	HAZARD ABATEMENT Jackfot + landings
SALEStudebaher Fire Salvag	SILVICULTURAL CC - ST, CC w/reserves
Unit No. 8, 90, 10, 13, 18	OPERATION PERIOD Summer '97
COMPACTION(Heavy)	
COMPACTION (Light)	Walk Hrough
UNDISTURBED	
DISPLACED	
EXCAVATED SKID TRAIL	
SMZ/ROCK	
COMMENTS	
soil disturbance in shel	Lots of CWD. Very little surface
construction. Some cut st	opl slumping occurring in new
8 4000-5200' 5-W	
9C 5000-5400 W 10 4000-4800 5-5E	
18 5200-5600 SE 13 5000-5600 S-E	
	1 4
Shape of Unit and Pattern of Transect / Wall	170 Ac-10, Ele-4400 clope -55%
8 - 45303)59, 19H, H	670, As-W, Ele-4400, slope-55%
90-45305178, 9H, H)-	220, As-W, Ele-5000, Slope-51%
10-45303145,40H,H	7-570, As-5, Ele-4200, Slope-55% see pressus *
18-45303134, 6A, HT.	624, As-SE, Ele-5300, slape-47%

45404237 45404238 45404233

06/16/1997 Three Rivers - Pulpit FIre Salvage

Three Rivers - Pulpit Flre Unit 7, 7A, 8

WOOTENAI NATIONAL FOREST

1 454 64 2 38 SOIL DISTURBANCE MONITORING FORM 8 = 45464233

TE June 16, 1991	CUTTING METHOD	Have.	
SERVER & ulnger	SKIDDING METHOD	Empline	V. 7 Administration (1997)
DISTRICT Three Person	If tractor:	dispersed	dedicated
SALE/S.A. Pulmit live Sol	HAZARD TREATMENT	,	
Unit # 7, 7 A . 8 Acres 35 3 4	SILVICULTURAL TRMT	10000	
H.T. WHIChn	OPERATION PERIOD	995 0	1.274 . 10 day
Slope 35-60	Aspect NW		
Location mid - make		-5500	
COMPACTION (Heavy)		A .	
	) . )		Λ
	<del> </del>	all IM	mede
COMPACTION (Light)		***	7
UNDISTURBED			
DISPLACED			
EXCAVATED SKID TRAIL			
SMZ/ROCK			
1.00			
COMMENTS (Include soil, geology, organic	debris, other pertinent info)	)	
Prehervest review-			
unito 7+ 7A very wet	Korda 12	million in the	dece how
cutston dumping	w/ several ma	Juna Slow	outs.
Day Sutabout Hillard	on road below	we see his to the total of the	
the state of the s			
P			<u> </u>
	-		
SHAPE OF UNIT AND PATTERN OF TRANSE	CT		Today yet 1

1PACTION (Heavy) - Any place where future vegetative growth will be significantly impacted, i.e., skid trails (both wily and lightly used depending on amount of compaction related to soil moisture), landings, and other impacted areas. COMPACTION (Light) - Any other area not included in heavy COMPACTION or UNDISTURBED. UNDISTURBED - No signs of any machinery or skidding acitvity.

DISPLACED - Any place soil has been mounded by machinery, also include in heavy or light compaction.

						Transect	t 3	Transe	ct 4	Transec	t 5 (	101/	
		Transect		Transect			%	Pts.	%	Pts.	%	Pts.	%
		Pts.	%	Pts.	%	Pts.		1 13.		<del>   </del>			
D.	HEAVY												
		<u> </u>				TT							
s	LIGHT							ļ					
٦,	UNDISTURB												
ь													
	TOTALS	<u> </u>		<del> </del>		<del> </del> +							1
				1		·				<u></u>			
_	DISPLACED												
-	EROSION			<del>  </del>		<del>                                     </del>		<u> </u>					
	2.100.01					<del> </del>		<del> </del>	<u> </u>	<del> </del> -			
_	PUDDLED							}					
_	CMZ	<del> </del>		<del>  </del>		+		1			İ	.	
	SMZ							<del></del> -		<del> </del>			
	ROCK								)				
						++			1	† <u>-</u>			
	BURN PILES		++A1								L		
				l									

1=51201009 - 74H	2-51201015 - 434	
	KOOTENAI NATIONAL FOREST #T-250, Ck 2400 FA SOIL DISTURBANCE DATA FORM 51405026 - 47A	W 1
DATE 4(28/97	_ CUTTING METHOD Clipper	
OBSERVERKuennen/Cranf		
DISTRICT Libby	HAZARD ABATEMENT burn landings '98	
SALE Boblau Flats Unit No. 142	$C \rightarrow L - C \qquad 04/2$	28/1997 ee Rivers
Unit No. 142	- Bc	obtail Flats Salvage
COMPACTION(Heavy)	Wach-Through 5120 5120	1& 2 201009 01013/ 05026
COMPACTION (Light)	3140	
UNDISTURBED		
DISPLACED		
EXCAVATED SKID TRAIL		
SMZ/ROCK		
COMMENTS		
Soils still for wet to a	yerate on. Want be long drying quickly.	
Shape of Unit and Pattern of Transec	ct	

05/27/1997
Libby
- Barron Salvage
Unit 5
55303013

### 563030 B

9 A

## KOOTENAI NATIONAL FOREST SOIL DISTURBANCE DATA FORM

DATE 5/27/97	CUTTING METHOD Clipse	
OBSERVER Wennen / Farmer	SKIDDING METHOD RTS	
DISTRICT Libby	HAZARD ABATEMENT gazgle pile burn	'00
SALE Barron Salvage	SILVICULTURAL SW seek preserve	
Unit No. 5	OPERATION PERIOD Jul Aug '98	
COMPACTION(Heavy)	. (	11.006
COMPACTION (Light)		
UNDISTURBED		
DISPLACED		
EXCAVATED SKID TRAIL		
SMZ/ROCK		
COMMENTS		
	. *	
Shape of Unit and Pattern of Transect	15th and 1-	

