Kootenai National Forest - Soil Disturbance Monitoring Form Three Rivers - Upper Beaver FS Re-Ad - Unit 31 09/25/2003 **KOOTENAI NATIONAL FOREST** SOIL DISTURBANCE MONITORING FORM CUTTING METHOD Sawheak Clipp DATE SKIDDING METHOD RTS OBSERVER dedicated If tractor: dispersed DISTRICT AdHAZARD TREATMENT SALE/S.A. Upper B SILVICULTURAL TRMT SD: The selvage we seed thees Unit # 3/ Acres SAF Knows whattelen OPERATION PERIOD winter H.T. Si Aspect | Slope 4400 - 4800 Elevation I Location Lon COMPACTION (Heavy) \square COMPACTION (Light) BONDED (3) *ØØ 1*7 Ø Ø **XXXX** UNDISTUBBED MAAAAAAAAAAAA 风风风风 EXCAVATED SKID TRAIL SMZ/ROCK COMMENTS (Include soil, geology, organic debris, other pertinent info) WL+LPP seeklings, also some 14. en DEASAE el no. of An Surd Sou clan Dens lighthe anc w/6062 mance hawtranced on Kd SHAPE OF UNIT AND PATTERN OF TRANSECT 4/12 COMPACTION (Heavy) - Any place where future vegetative growin 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 acitvity. DISPLACED - Any place soil has been mounded by machinery, also include in heavy or light compaction.

SM7 - Include within transect if within harvest unit.

	Transec		Transec		Transec		Transe	ct 4	Transe	ct 5	ТОТ	ALS
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
i HEAVY	09	3	0	0	0	0	0	0	5	3	14	1
s LIGHT	51	20	63	13	57	14	34	12	17	10	228	14
u UNDISTURB	221	11	415	81	350	86	240	88	151	37	1371	85
b TOTALS	287	100	478	100	401	100	274	100	113	100	1619	100
DISPLACED								<u>.</u>				
EROSION				- 25 							· · <u> </u>	
PUDDLED						<u></u>		<u> </u>				
SMZ												
ROCK												
BURN PILES												
			!]

Kootenai National Forest - Soi Three Rivers - Upper Beaver I	I Disturbance Monitoring Form F.S. Re-Ad - Unit 38		
09/23/2003	KOOTENAI NATIONAL FO	REST	
	SOIL DISTUPBANCE MONITO		
DATE 9,23,03	CUTTING METHOD	sawherd dipper	
DISTRICT TARE RIC		dispersed dedicated 2	
	S. Re-Ad HAZARD TREATMENT		(
Unit # <u>38</u> / Acres H.T. <u>SAF/Mefek</u>	SILVICULTURAL TRMT	winter	tree
Slope 15-135	Aspect	andy	
COMPACTION (Heavy)	Elevation		
ZEEBBBBBBBBBBBBB			A A A A CA ER
	A B B B B B B B B B B B B B B B B B B B		TA TARO A
2MMMMMMMM		TANANANANANANANA	
			RANNEME
EXCAVATED SKID TRAIL			
	ology, organic debris, other pertinent info	l.	
Southern S (Include soil, ged		F/Xete; lots Mangu	lastach
on the curtace	<u></u>	fan, me jerr	
		of angular/Sectangel	
al malena il	them ilge funit.	of angular seconque	antea.
Unit looks Very	good.		
	2 where unit toucher no	1. and on Ro 6718 whe	rement
touches it		· · · · · · · · · · · · · · · · · · ·	
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SHAPE OF UNIT AND PATTER	N OF TRANSECT		
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	EVC 2		
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	<u>B</u>		
COMPACTION (Heavy) - Any na	ace where future vegetative growth will	be significantly impacted, i.e., skid trails (both
eavily and lightly used dependir	ng on amount of compaction related to s	oil moisture), landings, and other impacted	
	er area not included in heavy COMPAC	FION or UNDISTURBED.	
<u>UNDISTURBED</u> - No signs of an DISPLACED - Any place soil has	y machinery or skidding acitvity. been mounded by machinery, also incl	ude in heavy or light compaction	8 •
MZ - Include within transect if w		ade ar newly or ngrit compaction.	10/99
			;

	Transec	t 1	Transec	:t 2	Transe	ct <u>3</u>	Transe	ct 4	Transec	ct 5	TOT	ALS
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
D HEAVY i	5	18	2	,2	<i>v</i>	.3	3	1			12	.5
s LIGHT	149	26	260	33	220	36	137	40			766	33
u UNDISTURB r	416	13	523	67	395	64	200	59			1534	66
b TOTALS	570	100	785	100	617	100	340	100			23/2	100
				Ale								
DISPLACED										· <u> </u>	,	
EROSION				* · ·								
PUDDLED			*			·		<u> </u>		*		
SMZ	-						 					
ROCK			13	2						· ·	13	.5
BURN PILES												

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Kootenai National Forest - Soil Disturbance Monitoring Form Three Rivers - Upper Beaver F.S. Re-Ad - Unit 50 09/23/2003 **KOOTENAI NATIONAL FOREST** SOIL DISTURBANCE MONITORING FORM CUTTING METHOD DATE SKIDDING METHOD OBSERVER dedicated If tractor: dispersed DISTRICT HAZARD TREATMENT SALE/S.A. U Ke-An opentized SILVICULTURAL TRMT WL seed prees; seed tree Unit # 50 Acres OPERATION PERIOD win H.T. Aspect | Flat Slope Southerly Elevation I Location twee COMPACTION (Heavy) 265 198 DISPLACED EXCAVATED SKID TRAIL SMZ/ROCK COMMENTS (Include soil, geology, organic debris, other pertinent info) the. canic ash laner over ti ilangularin reter arch, Doing fin + sp ves compe une mare. temple unon SHAPE OF UNIT AND PATTERN OF TRANSECT 1446 74**8**B Tempord

<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. <u>COMPACTION (Light)</u> - 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	1	Transec	t 2	Transect	3	Transec	t 4	Transect	5	тот	ALS
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
D HEAVY	35										35	7
s LIGHT	265										265	53
u UNDISTURB	198									· · · · · · · · · · · · · · · · · · ·	198	40
b TOTALS	498										498	100
·												
DISPLACED												
EROSION											·	
PUDDLED										,		
SMZ												
ROCK	10										10	r
BURN PILES												

Kootenai National Forest - Soil Disturbance Monitoring Form Three Rivers - Upper Beaver F.S. Re-Ad - Unit 68
09/26/2003 KOOTENAI NATIONAL FOREST SOIL DISTURBANCE MONITORING FORM
DATE <u>9.26.03</u> OBSERVER <u>Nuemen</u> DISTRICT <u>These Rivers</u> SALE/S.A. <u>UperBeaverFS Re-Ad</u> Unit # <u>68</u> ¹¹ Acres H.T. <u>WH/Clan</u> Slope <u>Aspect 1</u> North Location <u>lower-min</u> 29 CUTTING METHOD <u>Supplies</u> SkiDDING METHOD <u>Supplies</u> HAZARD TREATMENT SILVICULTURAL TRMT <u>SD: Fire selvage</u> ; <u>WL seelfnee</u> <u>Location lower-min</u> 29 Elevation 1 COMPACTION (Heavy) <u>BERIL1</u>
COMPACTION (Light) MARIANA AND AND AND AND AND AND AND AND AND
DISPLACED
SMZ/ROCK
COMMENTS (Include soil, geology, organic debris, other pertinent info) East half of unit. West half not completed Spil-glacial till; volcance ash intermittent It was an all growth stand Stand comprised of WL, WRC, SAF, WH, ES. Some wp
New seconds - mpuner wh, wh, c3, VF, WI
SHAPE OF UNIT AND PATTERN OF TRANSECT

<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. <u>COMPACTION (Light)</u> - Any other area not included in heavy COMPACTION or UNDISTURBED. <u>UNDISTURBED</u> - 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. SMZ - Include within transect if within harvest unit.

•• .	Transec	t 1	Transec	t 2	Transe	ct 3	Transec	t 4	Transec	t 5	ТОТ	ALS
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
D HEAVY i	27	9	26	9							53	9
s LIGHT t	120	40	142	47							262	43
u UNDISTURB r	155	51	134	44							289	48
b TOTALS	302	180	302	100				· · · · · ·			604	100
DISPLACED												
EROSION						<u></u>					· · · · · ·	
PUDDLED			İ						ŀ	•		
SMZ												
ROCK											· · · -	
BURN PILES												

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Three Rive	lational Forest - So rs - Upper Beaver		-		
09/23/2003	3	1998 - P	KOOTENAI NATIONAL		-
		SOI	L DISTURBANCE MONIT		
DATE	9123.0		CUTTING METHOD	Suchead	clipper
OBSERVER	theny	en	SKIDDING METHOD	<u>_K7S</u>	
DISTRICT	Three K	ivero	If tractor:	dispersed	dedicated
	Laper Been	er		more	
Unit # <u>68</u>		<u> </u>		LIM; Fare so	lunge; sculture (WL)
H.T. w <u>/</u>	·/ ~·~		OPERATION PERIO)	
Slope	30-35	· · · · · · · · · · · · · · · · · · ·	Aspect N		
	NI (Hooved) 17	- 9	Elevation		
	ON (Heavy) 🗖				
	8				
	DN (Light)	1717 4	0		
	2.4				
	ED X X X	ZNNNI	73		
	ANAC	48			
ZZZ	RARL	65			
DISPLACED					
EXCAVATED	SKID TRAIL				N
SMZ/ROCK		·			
		· · · · · · · · · · · · · · · · · · ·			
COMMENTS	(Include soil, g	eology, organ	ic debris, other pertinent in		- A Ray A
sout 1	eep asha	matil	Lot less rou	r Than on old	In sile of Beaver G.
1104			Maria and T	- to	1 Handt al
MA 68/	10 peran	mology	Very good. Tu	o major The	ues the result of
Redun	gifrom	all all			
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dani	SI as Did	provin a	many o car	1- Comme	ine of when find
Jun	Neca IT	pull -	me profine	vaca on The	WD fins in W/ //
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<i>F</i>					
HAPE OF UN	NIT AND PATTE	RN OF TRAN	NSECT		
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<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. <u>COMPACTION (Light)</u> - Any other area not included in heavy COMPACTION or UNDISTURBED. <u>UNDISTURBED</u> - 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.

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	Transec		Transec		Transe	ct 3	Transe	ect 4	Transed	t 5	TOT	ALS
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
D HEAVY i	9	7	8	8	8	8				· ,	25	8
s LIGHT	40	33	19	20	20	22					79	25
u UNDISTURB	73	60	68	72	65	70					206	67
b TOTALS	122	100	95	100	93	100					310	100
DISPLACED												
EROSION							1	2			~ <u>-</u>	
PUDDLED										•		
SMZ				<u>_</u>								
ROCK											·	
BURN PILES												

•	KOOTENAI NATIONAL FO			
-	SOIL DISTURBANCE MONITO	RING FORM		
DATE 7,23,03		clipper	2-1-	
OBSERVER <u>Kuennen</u> DISTRICT HARRE Kuennen	SKIDDING METHOD	dispersed	dedical	ted
SALE/S.A. Burnt Been				
Unit # <u>70 A</u> Acres H.T.	SILVICULTURAL TRMT OPERATION PERIOD	·	,v,v,v,v,v,v,v,	
Slope 5-35 mostly			· · · · · · · · ·	
COMPACTION (Heavy)	Elevation			
COMPACTION (Light)	ANDRINICIAL "	<u>ح</u>	······································	
			······	····
DISPLACED				
EXCAVATED SKID TRAIL			······································	
SMZ/ROCK			·····	
COMMENTS (Include soil, geology One main she off rd.	I torail. Unit sou	IR of 604		ingjust
COMMENTS <u>(Include soil, geolog</u> One main shi off rd.	I trail. Unit sou) Il of 606 een word		ing just gh streng
COMMENTS <u>(Include soil, geolog</u> One main she off rd.	I torail. Unit sou	IR of 604		ing just fasteeng
COMMENTS (Include soil, geology One main she off rd.	I torail. Unit sou	IR of 604		ing just of streng
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	Transec	t 1	Transec	t 2	Transect	3	Transe		Transec		TOT	
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
D HEAVY i	12	5									12	5
s LIGHT	115	49									115	49
u UNDISTURB	108	46									108	46
TOTALS	235	160					ļ				235	100
DISPLACED												
EROSION												
PUDDLED												
SMZ										.02.		i
ROCK	5.	2									5	2
BURN PILES												

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09/25/2003		sc		IAI NATIONAI BANCE MONI	1	RM		
DATE	9.25	.03		ING METHOD		whead	dipper	
BSERVER	Knen	nen		ING METHOE		<u> 75</u>		
STRICT	Trey K	wers		actor:	dispers	sed	dedicate	ed
ALE/S.A. (L <u>in Bea</u> Acres	ver		RD TREATME		Whee	a la A i d	
Unit #7				ATION PERIC		we re	ed me	
Slope	410%		·		to SW	1		
Location	-10 16	3		vation	10			
OMPACTIO	N (Heavy)	/ RIN	20					· · · · · · · · · · · · · · · · · · ·
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UMPACTIO			MXXXA			<u>n ai la Ri u</u>	RIA KIALA	TAAABBA
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NDISTURBE	DRAGE	1XMMMN	MAM		MANN	O M M M	ммыми	ST SA MATKINA }. "
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DI DO PT M	d Hada Arra	A A A A A A A A A A A A	MAM					
SPLACED								
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	SKID TRAIL							
	SKID TRAIL							
SPLACED KCAVATED MZROCK	SKID TRAIL	. (23)24 (24)24 0 , geology, orga	anic debris,	other pertinent	t info)	· · · · · · · · · · · · · · · · · · ·		
SPLACED	SKID TRAIL	. (23)24 (24)24 0 , geology, orga	anic debris,	other pertinent	t info)	· · · · · · · · · · · · · · · · · · ·		
SPLACED CAVATED	SKID TRAIL	. (23)24 (24)24 0 , geology, orga	anic debris,	other pertinent	t info)	· · · · · · · · · · · · · · · · · · ·		
SPLACED KCAVATED MZROCK	SKID TRAIL	. (23)24 (24)24 0 , geology, orga	anic debris,	other pertinent	t info)	· · · · · · · · · · · · · · · · · · ·		
MERTS	SKID TRAIL	. (23)24 (24)24 0 , geology, orga	anic debris, las Bes Las Las Las Las	other pertinent us sale; cage, he This st by	t info)	· · · · · · · · · · · · · · · · · · ·		
MERTS	SKID TRAIL	geology, orga iginal C y Beave rough un 30 40 h	anic debris, lan Bea 2 pace it, Une augul	other pertinent man sale tage, he this at he	t info)	· · · · · · · · · · · · · · · · · · ·		
MZROCK	SKID TRAIL	geology, orga iginal C y Beave rough un 30 40 h	anic debris, lay Bea 2 pace it. Une augul	other pertinent us sole is ge, he his sthe ye wh is	t info) Mapen Be Manual Le of slo The pa	· · · · · · · · · · · · · · · · · · ·		
MZROCK	SKID TRAIL	, geology, orga iginal C y Beave rough in 30 40 %	anic debris, lay Bea 2 pace it. Une augul	other pertinent us sole is ge, he his sthe ye wh is	t info) Manen Be Manen Be Manen Manen Manen	· · · · · · · · · · · · · · · · · · ·		
MZROCK	SKID TRAIL SKID TRAIL (Include soil (Include soil) (Include soil (Include soil (Include soil) (Include soil (Include soil) (Include soil) (Inclu	geology, orga ignal C y Beare rough un 30 40 % remon	inic debris, an Bea pace it. Une auguli al y lan I adj.	other pertinent un solo cance, ha This at he soch. ge wh in A R4 6	t info) Maper Be Marine	re; hts	e went H in showd Mguarit	
MZROCK	SKID TRAIL SKID TRAIL (Include soil (Include soil) (Include soil (Include soil (Include soil) (Include soil (Include soil) (Include soil) (Inclu	geology, orga ignal C y Beare rough un 30 40 % remon	inic debris, an Bea pace it. Une auguli al y lan I adj.	other pertinent us sole is ge, he his sthe ye wh is	t info) Maper Be Marine	re; hts		
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<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 acitvity.

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

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	Transect	t 1	Transec	t 2	Transect	3	Transec	t 4	Transec		TOT	ALS
·	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
D HEAVY	3	.5	20/3	7							36	3
s LIGHT t	392	52	227	51			1				619	52
u UNDISTURB r	354	47	183	41						 	537	45
b TOTALS	749	100	443	100							1192	100
								<u></u>	ļ		 	
DISPLACED												
EROSION												
PUDDLED										-	-	
SMZ												
ROCK	20	3									20	2
BURN PILES												

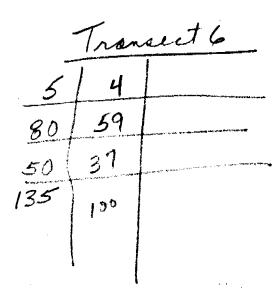
Kootenai National Forest - Soil Dis Three Rivers - Clay Beaver - Unit		
09/25/2003	KOOTENAI NATIONAL FO	
DATE 9,25,03	CUTTING METHOD	· · · · ·
DISTRICT - Thee River		RTS dispersed dedicated
Unit # 7 Acres 11 H.T. E-SAF- WH-DF	A HAZARD TREATMENT A SILVICULTURAL TRMT OPERATION PERIOD	5D; WL seed the Shelterwood
Slope	Aspect Elevation	
	11/0 5 10 andoda	
		ANDAL. 24 ANDALORADANADA DA
CARACANACARA CARACARACA	KARZIX X X X X X X X X X X X X X X X X X X	A CARACTER CARE A CARACTER CA
DISPLACED CARAGE	<u>CREARCEREEREEREEREEREEREEREEREEREEREEREEREER</u>	I A A A A A A A A A A A A A A A A A A A
		A COM DA COM
SMZ/ROCK	y, organic debris, other pertinent info	>)
Experientas findine: de	const need to be anothe	sturling
та		
SHAPE OF UNIT AND PATTERN C	DE TRANSECT	

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<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. <u>COMPACTION (Light)</u> - 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. SMZ - Include within transect if within harvest unit.

	Transad		Transec	t 2	Transec	t 3	Transe	ct 4	Transec	t 5	TOT	
••	Transect Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
D HEAVY	B	2	18	!	8_	1	7	2	17	И	63	1.5
s LIGHT t -	214	43	553	32	313	34	103	26	180	44	1443	35
u UNDISTURB	277	55	1183	67	587	65	292	72	210	52	2599	63
b TOTALS	499	100	1754	100	908	100	402	100	401	100	4105	100
							· · · · · ·		. 	· · · ·		
DISPLACED			· .				in a s		· · · · · · · · · · · · · · · · · · ·	·		
EROSION		. • • • • •									· · · · ·	
PUDDLED												
SMZ		· · · · · · · · · · · · · · · · · · ·										
ROCK			5									
BURN PILES										 		



	Kootenai National Forest - Soil Disturbance Monitoring Form Three Rivers - Clay Beaver - Unit 10
	09/26/2003 KOOTENAI NATIONAL FOREST SOIL DISTURBANCE MONITORING FORM
	DATE 9,26,03 OBSERVER <u>Huemen</u> DISTRICT <u>Liver</u> Kiver SALE/S.A. <u>Clen Beaven</u> Unit # 10 Acres 104 H.T. VF/Cenu wH/Clun Slope <u>L5-40+</u> Location <u>wer</u> 1 ³ /9 Elevation <u>Boo - 4800</u> COMPACTION (Heavy) <u>RE</u> 1 ³ /9 [1,4] <u>Stores 104</u> Location <u>17 [2],4</u> <u>Stores 104</u> <u>Compaction 104</u> <u>Com</u>
9 9 31 9 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	MANNARANA ARAARAARAARAARAARAARAARAARAARAARAARAAR
- -	EXCAVATED SKID TRAIL
	SMZ(ROCK) & & & / XXXXXXX SI/ XXI/ XXX L25
	COMMENTS (Include soil, geology, organic debris, other pertinent info) optypapage - Very broken, lots of rock pusches die tated where shedtrails went hthe dreps of brock outcome (60-8070 engular engues roch; des steepers rier, Centle arcessfeeden & hemboch volcanit ash present. methe very rocky part here pure stand of DF mp to 90% curface roch. Low volume/A removed.
-	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.
	<u>JNDISTURBED</u> - 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.
	SMZ - Include within transect if within harvest unit. 10/99

	Transec	t 1	Transec	t 2	Transed	t 3	Transe	ct 4	Transec	t 5	TOT	ALS
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
	13	2	21	4	7	2_	4		50	6	95	3.5
s LIGHT t	353	51	265	50	131	45	120	40	455	50	1324	49
u UNDISTURB r	325	41	243	46	152	53.	174	59	39.7	.44	1291	41.5
b TOTALS	691	100	529	100	290	100	298	100	902	100	2110	100
				4. 4.	. с.	÷.		117 17 18 117 17 18	1.1.5	144	an a	
DISPLACED		CATAL STAT		N. 1. 1. 1	1.4.4.6		2	a Urining	Nice a		$X \in \mathcal{X}$	
EROSION	b_{L}						A Start Start	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	0.2.2			
PUDDLED								- 1. 1. (8)	n an		•	
SMZ												
ROCK	43	6	51	10	23	8	25	8	0	0	142	5
BURN PILES												

Kootenai National Forest - Soil Disturbance Monitoring	Form	
Three Rivers - Kelsev Fire Sale - Unit 22		

09/30/2003

KOOTENAI NATIONAL FOREST SOIL DISTURBANCE MONITORING FORM

	and the second se	Milling and a second
DATE 9.50.03	CUTTING METHOD	clippon (sour fourd)
	SKIDDING METHOD	V-rs
DISTRICT TUNES Same	If tractor:	dispersed dedicated
		dispersed dedicated
SALE/S.A. Receip For Cal	HAZARD TREATMENT	
Unit # Acres	SILVICULTURAL TRMT	<u>5D</u>
H.T. SAF/Xete - Vace	OPERATION PERIOD	
Slope 10-25	Aspect いろい	
Location 110 m 1 m	Elevation	
DISTURBANCE Heavy DEST		
and the state of t	······	
PAST ACTIVITY		
DISTUBBANCE (Light) MM MMMM	NAN AAA NADAAA	NA ARADAAAAAA O A ARADAAAAAA
ADRABA: 452		WIKI NI WY KIWI KIWI KI KI KI WI MULAUMAZI BILAI MA
		······································
An Oddaw		a a a a a a a a a a a a a a a a a a a
UNDISTURBED M NO DAM M N KI KI KA K	MARMANNAM	INGIGGGGGGGGGGGGGGGGGGGG ZZGGGGGGGGGGGGGG
<u>AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA</u>	NADAV A DIANAN	<u>AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA</u>
18 1 903		
		the second s
DISPLACED		
entrony in main and the	• · · · · · · · · · · · · · · · · · · ·	
SMZ ROCK A DARMA DE RA		
COMMENTS (Include soil, geology, organ	nic debris-large & small, eros	ion, road drainage, other pertinent info)
Area has been destated, build	toto de mules rock	in soil material, Lot of large
surface rock block (2×3+5)	a beelle a ach	auteraps
and the second of the second o	and the second sec	A CARLES AND A CAR
N + A +		
shed trees.		
	I AA - AF I I	
Some seedlings abserved (DF, LFF, SHF, WL	
To waterlan put in - none	were needed	
		· · · · · · · · · · · · · · · · · · ·
SHAPE OF UNIT AND PATTERN OF TRAI	NSECT	
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	LOLSJ	
	LOLSJ	

<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. <u>COMPACTION (Light)</u> - Any other area not included in heavy COMPACTION or UNDISTURBED. <u>UNDISTURBED</u> - No signs of any machinery or skidding acitvity.

07/02

DISPLACED - 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.

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[Transect 1		nsect 1 Transect 2 Transect 3 Transect			Transect		TOT				
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
D HEAVY i	30	2									30	2
s LIGHT t	452	33									452	33
u UNDISTURB r	903	65									903	65
b PAST ACTIVITY												
TOTALS	1385	1010									1385	<i>@</i> 0
DISPLACED											L	
EROSION		-						• .				
PUDDLED												
SMZ				, <u> </u>								
ROCK	90	6									90	6
BURN PILES												

NAME OF COMMON

Kootenai National Forest - Soil Disturbance Monitoring Form Three Rivers - Kelsey Fire Sale - Unit 22A 09/30/2003

KOOTENAI NATIONAL FOREST SOIL DISTURBANCE MONITORING FORM

DATE <u>1.30.05</u> OBSERVER <u>Auctument</u> DISTRICT <u>Ares</u> <u>Auctument</u> SALE/S.A. <u>Kauna</u> <u>F.5</u> Unit # <u>22</u> <u>A</u> Acres H.T. <u>SAF/A</u> <u>Chun</u> Slope <u>10-25</u> <u>SAF/</u> Location <u>Mus</u> DISTURBANCE(Heavy <u>L</u>	CUTTING METHOD SKIDDING METHOD If tractor: HAZARD TREATMENT SILVICULTURAL TRMT OPERATION PERIOD Xefe Aspect WSW Elevation	dispersed dedicated dedicated dedicated
PAST ACTIVITY		
DISTURBANCE (Light)	ह्य हा हा जा ही ही ही ही ही ही ही	ddd 1220
UNDISTURBED DISPLACED EXCAVATED SKID TRAIL SMZLROCK COMMENTS (Include soil, geology, orga	anic debris-large & small, erosi	
	//	
Weiten partion excave	tor piled	· · · · · · · · · · · · · · · · · · ·
This unit much better s	ito Han Unito 2	2+23
SHAPE OF UNIT AND PATTERN OF TRA	ANSECT	

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 acitvity. DISPLACED - 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. 07/02

ſ	Transect	1	Transect	2	Transe	ct 3	Transe	ct 4	Transec		ТОТ	
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
D HEAVY i	5_	1									5	_/
s LIGHT t	220	44									220	44
u UNDISTURB r	275	55									275	55
b PAST ACTIVITY	0										0	
TOTALS	500	100						, ,			500	100
DISPLACED				·								
EROSION										· ·		
PUDDLED												
SMZ								, <u> </u>	· · · · ·			
ROCK	3	1									3	1
BURN PILES											5	

Kootenai National Forest - Soil Disturbance Monitoring Form Three Rivers - Kelsey Fire Sale - Unit 23 09/30/2003 **KOOTENAI NATIONAL FOREST** SOIL DISTURBANCE MONITORING FORM DATE CUTTING METHOD Sautiend ligger SKIDDING METHOD **OBSERVER** dedicated If tractor: DISTRICT dispersed HAZARD TREATMENT SALE/S.A. SILVICULTURAL TRMT SD; WL Seeffrees Unit # Acres H.T. **OPERATION PERIOD** (rte Slope Aspect $\leq \omega$ 40 Elevation | Location enpr2-DISTURBANCE(Heavy wh 17 10 PAST ACTIVITY MM DISTURBANCE (Light) AND AND lower BBBBBL 6th 100 MUNDISTURBED ARBANAN MARRA ABRA DISPLACED EXCAVATED SKID TRAIL SMZ/BOCK COMMENTS (Include soil, geology, organic debris-large & small, erosion, road drainage, other pertinent info) waterbright ad anall shidtrail survival moderate seefling SHAPE OF UNIT AND PATTERN OF TRANSECT 1065 lint 23

<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. <u>COMPACTION (Light)</u> - Any other area not included in heavy COMPACTION or UNDISTURBED. <u>UNDISTURBED</u> - 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/ROCK/BURN PILE</u> - Include within transect if within harvest unit. 07/02

	low	1.	Mar Barris	TRANSECT SUMMARY FORM					·			
	Transec	t 1	Trahsec	t 2	Transect	3	Transec		Transect	5	TOT	
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
HEAVY	10	6	8	5							18	5
LIGHT	65	37	56	34							121	36
	100	51_	100	61				•			200	59
ACTIVITY	0	0	0	D							0	<u> </u>
TOTALS	175	100	164	100							339	100
DISPLACED						0		·				
EROSION								~~ ,				
PUDDLED						-						
SMZ												
ROCK	0		8	5							8	2
BURN PILES												

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Kootenai National Forest - Soil Disturbance Mon	itoring Form
Three Rivers - Kelsey Fire Sale - Unit 24	
09/30/2003	KOOTEN

KOOTENAI NATIONAL FOREST SOIL DISTURBANCE: MONITORING FORM

DATE	7.30	A2	CUTTING M		- 2	1 . <i>1</i>	
OBSERVER	<u> </u>		SKIDDING N		Sawhad	<u>cupper</u>	
DISTRICT	Anenn	<u>En</u>	If tractor:		lispersed	ے dedicated	
SALE/S.A.	India D	ina.	HAZARD TR		lishersen		
Unit #	24 Acres	the sale			5D	······	
H.T.	<u></u>		OPERATION		<u> </u>		
Slope	······································		Aspect	λ/μ	<u> </u>	······································	
Location	mull.		e , Elevation		<u>• </u>		
	ICE(Heavy M :	12 n	· 10 111		·		·
D NNN 1 4		<u> </u>	-/ -/				
PAST ACTIV		ų i.	· · · · ·				
	CE (Light)	NNNN	DONN: 10-	z — — —			
O ANDA	TANDAR				······	• <u>,</u> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
TATAR	RAD RII	91			······		
ODDDDD	722128		C S S S S S S S S S S S S S S S S S S S	O MARIAL	267		
UNDISTURB	DRARMA	MAR X7 M N		XXXXX	183		
I REAR	98133194	WARKER	TRAVISO		135		
V SEPER	OS BOBIE	999199	A FAR B R	190			
V A BAA 6	BRODES	KEEBB	RAMAN	OR A B BILL		ARAZOUZBE	N/A
DISPLACED	Alt - the Alt of the Alt						46
EXCAVATED							
SMZ/ROCK	8						
		the second second					
COMMENTS	(Include soil, g	geology, orga	nic debris-large 8	& small, erosion	, road drainage,	other pertinent info)	
						······································	
						······································	
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	······································						
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	······································						
SHAPE OF U		ERN OF TRA	NSECT		· · · · · · · · · · · · · · · · · · ·		

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

	Transec		Transec		Transe		Transe	ect 4	Transec	t 5	TOT	ALS
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
D HEAVY i	12	Ц	8	ス	7	2	48	6			15	4
s LIGHT t	102	34	113	32	97	33	267	33))	579	33
u UNDISTURB r	183	62	235	66	190	65	485	61			1093	63
b PAST ACTIVITY												
TOTALS	297	100	356	100	294	10	800	<u>ে জারার</u> 100	inter Maria		1147	100
DISPLACED												
EROSION			<u>*-811</u>	188	द्र रा इन्	214.1	1.71 8	11200	1.76712	S.		
PUDDLED												
SMZ		·					-	'				
ROCK					· · · · · · · · · · · · · · · · · · ·		8	1			8	.5
BURN PILES												
							_					

Kootenai National Forest - Soil Disturbance Monitoring Form Libby - Treasure Stewardship - Unit 13 06/11/2003 4 44 M.T **KOOTENAI NATIONAL FOREST** SOIL DISTURBANCE MONITORING FORM 11,2003 DATE CUTTING METHOD SKIDDING METHOD OBSERVER. DISTRICT If tractor: dedicated X dispersed tarmer SALE/S.A. Treasure HAZARD TREATMENT ω Stewardship_ SILVICULTURAL TRMT / wood Unit # Acres H.T. OPERATION PERIOD n Man Aspect I 5-58 Slope Location Elevation 3 25 COMPACTION (Heavy) X X M ମ୍ ର 🛛 Past 🛛 305 _ight) \mathbf{M} NNA 301 MAAAA R BBBB UNDISTURBED^D MERIDE **X**10 Œ, DISPLACED EXCAVATED SKID TRAIL SMZ/ROCK COMMENTS (Include soil, geology, organic debris, other pertinent info) Several Abgr + Laoc lats of round und till moterialal 1323 mining some clinke road: protected stream course, SHAPE OF UNIT AND PATTERN OF TRANSECT 13) 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 acitvity. DISPLACED - Any place soil has been mounded by machinery, also include in heavy or light compaction. SMZ - Include within transect if within harvest unit. 10/99

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	Ξ.y.	suser	-		SECT SU		FORM					
1	Transec		Transec		Transe		Transe	ct 4	Transect	t 5	ТОТ	ALS
-	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
D HEAVY	43/=	14.6	33/3	9	25/3	6					100/18	8/1
s LIGI/T t	305	82.7.	301	73	375	77					481	7 7
u UNDISTURB r	10	2.7	78	19_	85	17					173	14
b TOTALS	369	100	4/3		488	100		· .			1270	100
								· · ·			· ·	
DISPLACED	18	5	6	- 1	3						27	2
EROSION				α ^π X – ματ	1 84 m	¥1.						
PUDDLED										-	1 1 1	
SMZ												
ROCK												
BURN PILES		21										

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Kootenai National Cabinet - Emma H 10/01/2003	K	ng Form OOTENAI NATIONAL FO DISTURBANCE MONITOR		
DISTRICT SALE/S.A. Unit # <u>457</u> H.T Siope3	<u>10-01-03</u> <u>L. Kuennen</u> , J. Gubel <u>Cabinet</u> <u>Emma Haines</u> <u>A</u> Acres <u>BO - 40%</u> <u>CE(Heavy: /2) R1:¹⁶</u>	If tractor:	Fellerbunch Tractor dispersed	
PAST ACTIVI	TY3 L			
DISTURBANC	E (Light) ② 여러 대 전 전 보 보 또			
UNDISTURBE DISPLACED EXCAVATED S SMZ/ROCK		ing ka	<u> </u>	312216317319 212216317319 212216317319
COMMENTS	(Include soil, geology, organic	debris-large & small, eros	ion, road drainage, othe	r pertinent info)
020	roadway die	secto unit		
SHAPE OF UN	IT AND PATTERN OF TRANS	ECT		······

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>COMPACTION (Light)</u> - 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. SMZ/ROCK/BURN PILE - Include within transect if within harvest unit.

4 m	Transect	1	Transect	t 2	Transect	3	Transec	xt 4	Transect		ТОТ	
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
D HEAVY i			16								16	3.5
s LIGHT t			134								134	29_
u UNDISTURB r			302			·					302	66
b PAST ACTIVITY			5								5	1
TOTALS			457								457	100
DISPLACED			5								5	/
EROSION	1											
PUDDLED												ļ
SMZ											 	
ROCK									ļ			
BURN PILES	t <u>.</u>									r 		

04 457 21.0

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05/14/2003 Rexford - Still Creek

KOOTENAI NATIONAL FOREST SOIL DISTURBANCE DATA FORM

DATE May 14, 2003	CUTTING METHOD
OBSERVER Kuennen	SKIDDING METHOD
DISTRICT Report	HAZARD ABATEMENT
SALE_Still Creek	SILVICULTURAL
Unit No	OPERATION PERIOD
COMPACTION(Heavy)	
COMPACTION (Light)	
DISPLACED	
EXCAVATED SKID TRAIL	
SMZ/ROCK	· · · · · · · · · · · · · · · · · · ·
COMMENTS_ Participated in Spre	g burn of unit
Shape of Unit and Pattern of Transect	

3/88

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05/15/2003 Rexford - Gut Creek	KOOTENAI NATIONAL FOREST	
	SOIL DISTURBANCE DATA FORM	
DATE May 15, 2003	CUTTING METHOD	
OBSERVER Kuennin	SKIDDING METHOD	
DISTRICT Kelford	HAZARD ABATEMENT	<u></u>
SALE <u>Gut Creck</u> Unit No.	SILVICULTURAL	
Omt No	OPERATION PERIOD	
COMPACTION(Heavy)		
COMPACTION (Light)		
DISPLACED		
SMZ/ROCK		<u> </u>
Participated in	springburn of unit	
Shape of Unit and Pattern of Trans		

05/15/2003		
Rexford - Bear Trap	KOOTENAI NATIONAL FOREST SOIL DISTURBANCE DATA FORM	
DATE May 15, 2003	CUTTING METHOD	• **
OBSERVER Kaumin	SKIDDING METHOD	
DISTRICT Repard	HAZARD ABATEMENT	
SALE Bear Trep Unit No.	SILVICULTURAL	
Unit No /	OPERATION PERIOD	·····
COMPACTION(Heavy)		
COMPACTION (Light)		
UNDISTURBED		· · · · · · · · · · · · · · · · · · ·
SMZ/ROCK		,
COMMENTS		
Participated in s	pring burn of unit	
		······
Shape of Unit and Pattern of Tran		

	KOOTENAI NATIONAL FOREST OIL DISTURBANCE DATA FORM	
DATE May 28, 2003	CUTTING METHOD	
OBSERVER Kulmmen / Craw	ford skidding method	•,
DISTRICT Libby	HAZARD ABATEMENT	
SALE North Mc Swede	SILVICULTURAL	
Unit No. <u>23</u> 7.2	OPERATION PERIOD	
COMPACTION(Heavy)		
COMPACTION (Light)		
DISPLACED		
EXCAVATED SKID TRAIL		
	,	
COMMENTS	review with the sale administer	; ;
		<u> </u>
		-,

•

Shape of Unit and Pattern of Transect

4

05/29/2003 Libby - Deer Marl	KOOTENAI NATIONAL FOREST SOIL DISTURBANCE DATA FORM
DATE May 29, 2003	CUTTING METHOD
OBSERVER Kuennen	SKIDDING METHOD Calle
DISTRICT Libby	HAZARD ABATEMENT BB Spring 03
SALE Deer Marl	
Unit No	OPERATION PERIOD
COMPACTION(Heavy)	Welk-Hrough
COMPACTION (Light)	
DISPLACED	
EXCAVATED SKID TRAIL	
SMZ/ROCK	
COMMENTS Part of a spr id mit hall been le	ing 2003 planting review.
Stremps were stil	had just finisked!
Soil maisture good CWD - on lower s	och over combined glacial till residual but not alone field is quite. ide for hit.
	/

Shape of Unit and Pattern of Transect

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05/29/2003 Libby - Prospect Parmenter **KOOTENAI NATIONAL FOREST** SOIL DISTURBANCE DATA FORM DATE Man 29 2003 CUTTING METHOD_____ OBSERVER Luennen SKIDDING METHOD DISTRICT Libbi, HAZARD ABATEMENT <u>BB</u> SALE & raapert Parmenter SILVICULTURAL Unit Mo OPERATION PERIOD_ COMPACTION(Heavy) COMPACTION (Light) UNDISTURBED DISPLACED EXCAVATED SKID TRAIL SMZ/ROCK COMMENTS. Part pring 2003 planting review. Deep volcome as have glassal till. Shape of Unit and Pattern of Transect

05/29/2003 Libby - North McSwede

KOOTENAI NATIONAL FOREST SOIL DISTURBANCE DATA FORM

DATE May 29, 2003	CUTTING METHOD
OBSERVER Kacanen	SKIDDING METHOD
DISTRICT Libby	HAZARD ABATEMENT
SALE North Mc Swede	SILVICULTURAL
Unit No	OPERATION PERIOD
COMPACTION(Heavy)	
COMPACTION (Light)	
UNDISTURBED	
DISPLACED	
EXCAVATED SKID TRAIL	
SMZ/ROCK	· · · · · · · · · · · · · · · · · · ·
COMMENTS Part of a spring	clasting review
No volcanic ash. 6	la cirl till.
Shape of Unit and Pattern of Transect	

	TENAI NATIONAL FOREST DISTURBANCE DATA FORM
DATE June 20, 2003	CUTTING METHOD
OBSERVER Knennen Kilroy	SKIDDING METHOD
DISTRICT Refford	HAZARD ABATEMENT
SALE Gold FDR Salvage	SILVICULTURAL
Unit No. <u>222</u> C	OPERATION PERIOD
COMPACTION(Heavy)	
COMPACTION (Light)	
UNDISTURBED	
DISPLACED	
EXCAVATED SKID TRAIL	
SMZ/ROCK	
COMMENTS	
	·
	· · · · · · · · · · · · · · · · · · ·

Shape of Unit and Pattern of Transect

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07/10/2003 Three Rivers - Black Yoak

KOOTENAI NATIONAL FOREST SOIL DISTURBANCE DATA FORM

DATE July 10, 2003	CUTTING METHOD
OBSERVER Kuennen	SKIDDING METHOD
DISTRICT Three Rivers	HAZARD ABATEMENT
SALE Black Yack	SILVICULTURAL
Unit No. <u>25</u>	OPERATION PERIOD
COMPACTION(Heavy)	
COMPACTION (Light)	
DISPLACED	
EXCAVATED SKID TRAIL	
SMZ/ROCK	· · · · · · · · · · · · · · · · · · ·
COMMENTS Part of an ElS mo Unit part of 2000	hoderisk Butte Fire area.
	· · · · · · · · · · · · · · · · · · ·
Shape of Unit and Pattern of Transect	
Shape of Ohn and I attern of Hanseet	

07/10/2003 Three Rivers -Kelsey Fire Salvage	OTENAI NATIONAL FOREST	
KU	L DISTURBANCE DATA FORM	
DATE July 10 2003	CUTTING METHOD	
OBSERVER Kuennen	SKIDDING METHOD	19
DISTRICT Three Kines	HAZARD ABATEMENT	
SALEKelsenFire Salvage	SILVICULTURAL	<u> </u>
2B	OPERATION PERIOD	
COMPACTION(Heavy)		
	·····	
COMPACTION (Light)		
UNDISTURBED		
1		
DISPLACED		
EXCAVATED SKID TRAIL		
SMZ/ROCK		
COMMENTS		
Part of an ElS m	oniting preview.	
unit fjurt of		
· · · · · · · · · · · · · · · · · · ·		
Shape of Unit and Pattern of Transect		

09/12/2002 KOOTENAI NATIONAL FOREST Rexford - Parsnip Lödgep OIL DISTURBANCE MONITORING FORM Unit 9 13002137 REXFORD RANGER DISTRICT 9/12/02

A

REXFOR	D RA	NGER .	DISTR	ICT 9/12/0
	130	> 0.2	131	7

Sale: Parsnip LP Observers: Kindel, Furniss, He	$\underbrace{ \text{Unit:} }_{\text{Outor}} Ac$	cres: <u>9</u>	_ Date: <u>9-12-02</u>
Silvicultural Treatment: <u>Seed tr</u> Skidding Method: <u>Tractor</u> Season of Operation: <u>Summer</u>	Dispersed? X	Dedicated?	
Unit Location (Rd. #, etc.): <u>RJ 4874</u> Habitat Type:		Drainage: <u>ما ک</u>	

DESCRIPTION	TRANSECT POINTS	TOTALS	TOTAL	%
HEAVY DISTURBANCE	1. X 2. X 3. X 4.	1. <u>11</u> 2. <u>12</u> 3. <u>14</u> 4.	37	11 10 9 7
LIGHT DISTURBANCE	1. RAKARAKAX 2. DARARAKAKA 3. RAKARARARAKA 4.	1. <u>86</u> 2. <u>)08</u> (3. <u>177</u> 4.	371	83 88 89 90
	$1. \frac{\cdot}{2. \frac{1.{1.}}}}}}{1. \frac{1. \frac{1}{2. \frac{1}{2. 1$	1 23 3 40	10	2 Z 3
SMZ/BEDROCK	1.	1. <u>L</u> 10 2 3 4.	418	

_	UNIT SHAPE & TRANSECT PATTERNS:	ADDITIONAL COMMENTS:
		Disturbance higher than expected due
-	1	to being a narrow upit and having
	h l	an executed (rehabled) skid trail.
		Very little of the heavy disturbance
		ist compaction due to cocley
		disturbance was displacement
	2	(excurated trail) with a little
-		pile burn damace. Because the
		soil and water standards consider
_		rehabbed trails as not being
		disturbed, this survey are estimates
		the soil damage as compared to
	energy (the 15% standard.

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09/26/2002 10803055 10803055 Rexford - Upper Boulder Unit 6 KOOTENAI NATIONAL FOREST SOIL DISTURBANCE MONITORING FORM 126.02 DATE **CUTTING METHOD** Forwarde OBSERVER indel Nes SKIDDING METHOD MAPM If tractor: DISTRICT dispersed dedicated BB -SALE/S.A. HAZARD TREATMENT 2001 Unit # SILVICULTURAL TRMT res Sept+ **OPERATION PERIOD** H.T. 00 5 Slope Aspect I -SW SE Location Elevation 5600 uppen COMPACTION (Heavy) ≥ 1224 PAST ACTIVITY 38 61 69 9-9-9-9-9-BUARAN: 23 DISPLACED **EXCAVATED SKID TRAIL** 3 2 -SMZ/ROCK COMMENTS (Include soil, geology, organic debris-large & small, erosion, road drainage, other pertinent info) 8. 5. 5 SHAPE OF UNIT AND PATTERN OF TRANSECT 1.16 100 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 acitvity. DISPLACED - Any place soil has been mounded by machinery, also include in heavy or light compaction. SM7/ROCK/RURN PULE - Include within transact if within harvast unit 07/02

	Transec	t 1	Transec	rt 2	Transe	ct 3	Transe	ct 4	Transec			ALS
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
D HEAVY	10	5	8	ŝ	9	5					27	4
s LIGHT t	61	32	69	28	88	52					218	36
u UNDISTURB	119	63	17/	69	13	43	na sente de la composition la composition de la composition la composition de la composition la composition de la br>la composition de la c			t. C.A	363	60
b PAST ACTIVITY												
TOTALS	190	100	248	100	170	100					608	10
DISPLACED	2	den er starte by stelland		wanter and Wire Poart	4.	in the second	Kear	es en se	n saladit i	Ar Shin	in In	1
EROSION			i San tee Me				Strengel	an a	trop of		Na	
PUDDLED								artage days from		A the decision		an ta Gina a
SMZ												
ROCK	0	0	2	1	3	2					5	1
BURN PILES					an Santa Marina Agailte							

n/26/2002 exford - Upper Boulder nit 8	108030			
III 8 Kanada ang ang ang ang ang ang ang ang ang an	KOOTENAI NATI SOIL DISTURBANCE			rn, standers 2008. Generation and an ang
DATE 9:26.02 OBSERVERK unentkind DISTRICT Reference SALE/S.A. Upper Builden Unit # BIT Acres 39 H.T. SAF /Atom Vasc Slope 10-30 Location press	SILVICULTURA OPERATION P Aspect I 46 44 Elevation,I	THOD // R1 dispersed TMENT // unfurbu	dedicated m/BB fall 20	X tas
	rea dia di von o			
EXCAVATED SKID TRAIL				
SMZ/ROCK LS			n an /del>	
				and a second
COMMENTS (Include soil, geolog	gy, organic debris-large & sr	mail, erosion, road draina	ige, other pertinent info)	
	gy, organic debris-large & sr	mall, eroșion, road draina	ige; other pertinent info)	
	gy, organic debris-large & sr	mall, eroșion, road draina	ige; other pertinent info)	
	gy, organic debris-large & sr	mall, erosion, road draina	ige; other pertinent info)	
	gy, organic debris-large & sr	mall, erosion, road draina	ige; other pertinent info)	
	gy, organic debris-large & sr	mall, erosion, road draina		
	gy, organic debris-large & sr			
COMMENTS (Include soil; geolog				
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COMMENTS (Include soil; geolog				
COMMENTS (Include soil; geolog				

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

SM7/BOCK/REIRN PILE - Include within transport if within how part unit

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				TRANS		MMARY	FORM	4			н 1	
· _		per	_m	all		ever	Tropco	ct 4	Transe	ct 5	TO	TALS
	Transect		Transec	<u>t 2</u>	Transe		Transe Pts.	<u> </u>	Pts.		Pts.	%
	Pts.	%	Pts.	%	Pts.	%	<u></u>	70	<u>г.</u> а.	- / 		
D HEAVY i	45	10	44	10	44	22	n an				133	12.
s LIGHT t	180	42	165	38	68	34			n an		413	39
u UNDISTURB	205	48	222	52	88	44					515	48.2
b PAST ACTIVITY											al an	
TOTALS	430	100	431	100	200	100			Super-		1061	100
DISPLACED	· er		Str.	New Joine	wy.	11-2	1.41 × 1.95	199 9 1914 -		a time	1/3	*1_
EROSION		in the second second	and a start of the second s	a franciski					e i sinata	an trigger	ang ing in	
PUDDLED												
SMZ												
ROCK	6		· · · · · · · · · · · · · · · · · · ·		+							
BURN PILES												

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09/27/2002
Rexford - East Sutton
Unit 57

KOOTENAI NATIONAL FOREST SOIL DISTURBANCE MONITORING FORM REXFORD RANGER DISTRICT 9/27/02

Observers: Kindel Fordest	Unit: 57	Acres:8	Date: 9-22-02
Date of Harvest: <u>2000</u> Silvicultural T. Skidding Method: <u>Tractor</u> Season Unit Location (Rd. #, etc.): <u>7301</u> Habitat Type: <u>732</u>	n of Operation: <u></u>	Cutting Meth <u> <u> </u> </u>	ige: <u>Sutton</u>

DESCRIPTION	TRANSECT POINTS	TOTALS	TOTAL	%
HEAVY DISTURBANCE	1. 2 2. 7 3	1. <u>4</u> 2. <u>8</u> 3. <u></u> 4. <u></u>	17	3
LIGHT DISTURBANCE	1. <u>AR AN </u>	1. <u>183</u> 2. <u>203</u> 3. <u></u> 4. <u></u>	386	65
NDISTURBED	1. <u>X X X X X X X X X X X X X X X X X X X</u>	1. <u>100</u> 2. <u>78</u> 3 4	178	30
SMZ/BEDROCK	1. 1:	1. <u>5</u> 2. <u>4</u> 3 4	۹	2
CUMULATIVE	TALLY FOR ALL POINTS AND PERCENTAGES →	590	5901	100

Very raky soils. skidline dispersed- vo main trails. unit Boller good 1 Findine versteted are most of disturbed acco. The most of the heavy Intribure west displacement from the freine	UNIT SHAPE & TRANSECT PATTERNS:	ADDITIONAL COMMENTS:
	2301 1	Very racky soils, skidding dispersed- no main trails, unit Issler good. Finding verytated air most of disturbed area. The majority of the henry list above was displacement from

	SOIL DISTURBANCE MONITORING FORM	
DATE 8.1.20	02 CUTTING METHOD clippen	
OBSERVER Kuenne	SKIDDING METHOD RTS	
DISTRICT Fosting	If tractor: dispersed dedicated	
SALE/S.A. Pinkham	Rilge HAZARD TREATMENT	
	231 SILVICULTURAL TRMT <u>SD-LP</u> , CHE UK-DF,	L 9"
H.T. DF/Libo Slope 030 mas	DPERATION PERIOD Han 5-15 Aspect Mostly E - NE	
Location mido		
COMPACTION (Heavy) X		
0	<u> </u>	
PAST ACTIVITY 12 0	THE AND	
COMPACTION (Light) 42 20		
MANNAMANAN	XXXXXXI SECANAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	
UNDISTURBED XX XXX	ATXIX X NVAX X X X X X X X X X X X X X X X X X X	and the second
MALA A A A A A A A		ACIAT
	<u>O BEREREVERSERESERESERESERESERESERESERESERE</u>	
DISPLACED [CHANNA A AAAAA	MNM
EXCAVATED SKID TRAIL	CI BEBERRERERERERERERE	
	OU AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	
SNZROCK MXXX MXX		
Endence of old c	ology organic debris-large & small, erosion, road drainage, other pertinent int utter of in stand - lots of all high strings. Wanck from past activities noticeable	o)::::::::::::::::::::::::::::::::::::
Endence of all c	utting in stand - lots of all high stringer	
Octainental V distri	utting in stand - lots of all high stringer	
Octainental distri	utting in stand - lots of all high stringer	
Octainental distri	utting in stand - lots of all high stringer	
Conce of ell c	utting in stand-lits dal high stimps: Vance from past activities notices the	
SHAPE OF UNIT AND PATTER	withing in stand - lots doll high strings in the stand of the string of	
Octainertel Vdietu	utting in stand-lits dal high stimps: Vance from past activities notices the	
SHAPE OF UNIT AND PATTER	withing in stand - lots doll high strings in the stand of the string of	
SHAPE OF UNIT AND PATTER	withing in stand - lots doll high strings in the stand of the string of	
SHAPE OF UNIT AND PATTER	withing in stand - lots doll high strings in the stand of the string of	
SHAPE OF UNIT AND PATTER	withing in stand - lots doll high strings in the stand of the string of	
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SHAPE OF UNIT AND PATTER	in of TRANSECT	
SHAPE OF UNIT AND PATTER	withing in stand - lots doll high strings in the stand of the string of	
SHAPE OF UNIT AND PATTER	in of TRANSECT	
SHAPE OF UNIT AND PATTER	in of TRANSECT	
SHAPE OF UNIT AND PATTER	in of TRANSECT	
SHAPE OF UNIT AND PATTER	in of TRANSECT	

<u>UNDISTURBED</u> - 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. SM7/ROCK/BUBN BUE - Include within transact if within harvest unit 07/00

ſ	Trancat		Transec	1 2	Transec	xt 3	Transe	ct 4	Transec		TOT	
	Transect Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	_%	Pts.	%
	30	6	15	4	11	8	46	_7_	6	6		
s LIGHT	245	50	169	50	76	34_	364	53	50	46		
u UNDISTURB	205	42	138	41_	127	56	280	40	50	46		
b PAST ACTIVITY	8	2	17	5	5	2	2	۷1	3	2	in ingen ser Status Status Status	
TOTALS	488	100	337	100	225	100	692	100	109	100	an dependent Service and the	
DISPLACED	5	1	3	1	3							
EROSION					e statistica en la composición de la c la composición de la c la composición de la c				an a			
PUDDLED						· · · · ·					fill a ping satt.	
SMZ		· .			70	31					· · · ·	
ROCK								1. A			· · · · · ·	
BURN PILES	n tala ing se gita an		e englister geografist									

TRANSECT SUMMARY FORM

	Transec	t 🖉 🥊	Transe	ct 2	Transe	ct 3	Transe	ct 4	Transe		TOT	
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
DHEAVY	40	6									154	6
	360	50					sjer. National				1262	49
	300	42			n dên serie Anne serie Alexandre serie						1100	43
	12	đ			a de Santa de Cara de Cara Cara de Cara br>Cara de Cara de	n kun Versik di my Kun Versik di my Kun Versik di Kun Versik					47	2
TOTALS	712	100									1563	100
DISPLACED					· ·						9	21
EROSION												
PUDDLED												
SMZ										2.	70	3
ROCK											• -	·
BURN PILES												

Combining current & past setrimental dis equals total of 8% for this activity area ! survence

Λ Λ		
DATE Aug. 2, 200 OBSERVER Kuennen	SKIDDING METHOD	KT3
DISTRICT Fortine SALE/S.A. Pinkhim Ril	If tractor: dispersed HAZARD TREATMENT BB	dedicated X
Unit # 5 Acres	14 SILVICULTURAL TRMT LTM	pury com
H.T. DF/Libo - DF Slope 5-12	Aspect mostly ENE	n de la complete de l La complete de la comp
Location lower O	25 Elevation 1 3600	n an an an Anna
PAST ACTIVITY COMPACTION (Light)		NANNA ANA 280
A BAA A BAANA BAA A	e filos de la marca de la companya d	
UNDISTURBED X X X X	AND ANN ANN ANN ANN ANN ANN ANN ANN ANN	B
DISPEACED		
EXCAVATED SKID TRAIL		
SMZ/ROCK		en en en de la companya de la compan Nome de la companya d
OOMATS TO ALL AND A		
COMMENTS (Include soil, geo	logy, organic debris-large & small, erosion, road dra	anage, other pertment mo
food looking file	e-exconstructuridth	
COMMENTS (Include soil, geo	e-excavator fucket with	
, and looking file	e-exconstructuridth	
food looking file	e-exconstructuridth	
, and looking file	e-exconstructuridth	
food looking file	e-exconstructuridth	
food looking file	e-exconstructuridth	
Sul-que grans	e-equator bucht width I fill w/o asl; 17 323	
SHAPE OF LINIT AND PATTER	e-equator bucht width 1 fill w/o asl; 1-7 323 NOF TRANSECT	
SHAPE OF LINIT AND PATTER	v OF TRANSECT	
SHAPE OF LINIT AND PATTER	e-equator bucht width 1 fill w/o asl; 1-7 323 NOF TRANSECT	
SHAPE OF LINIT AND PATTER	v OF TRANSECT	
SHAPE OF LINIT AND PATTER	v OF TRANSECT	
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SHAPE OF LINIT AND PATTER	v OF TRANSECT	
SHAPE OF LINIT AND PATTER	v OF TRANSECT	
SHAPE OF LINIT AND PATTER	v OF TRANSECT	
SHAPE OF LINIT AND PATTER	v OF TRANSECT	

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	ſ	Transect	1	Transec	t 2	Transe	ct 3	Transe	ct 4	Transec		TOT	
		Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
	·	25	5	20	5							45	5
s LIGHT		280	56	216	51					· · · · · · · · · · · · · · · · · · ·		496	54
u UNDIS r	TURB	195	39	184	44	:						379	41_
b PAST ACTI	VITY		inter <u>sectory</u> 1. Jan	10. <u>-</u>				an an tha An Anna an Anna Anna An Anna Anna Anna				.	· /
TOTAL		500	100	420	100		19 18 18 19 19 19		res (Al Asia)	19		1920	100
DISPL	ACED	3	Mape	Ö	paint	a No pi	-720FALLA	a sus	8 A.8. 1	`X(*\$7	Y Contract	4.3.	<u>~1</u>
EROS	ION					n del de l'art de l' la del de la del de la del la del de la del del la del de la del del d					1.14		
PUDD	LED												
SMZ					· .				No to		Elle france (1997) -	g Sole A P	¢
ROCK						1. S. J.		a an					
BURN PILES				o degelo que de la Franção de Seco Francis Alexandro de Seco Francis							19		

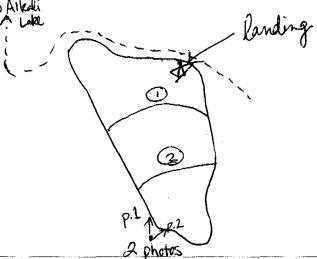
a haar weel waar ee de teelike gebeer te teelike een teelike teelike teelike teelike teelike teelike teelike te

32006064 07/26/2002 Fortine - Timber Lake Unit 1 KOOTENAI NATIONAL FOREST 32006064 SOIL DISTURBANCE MONITORING FORM ひ・しょ DATE CUTTING METHOD OBSERVER Got SKIDDING METHOD DISTRICT If tractor: dispersed dedicated SALE/S.A. HAZARD TREATMENT ber 1 urn Unit # Acres SILVICULTURAL TRMT **OPERATION PERIOD** H.T. Slope Aspect i Location Elevation I lower Э COMPACTION (Heavy) (- 63 떠ਯ PAST ACTIVITY 14 171 COMPACTION (Light) (I R R R R R R R R 3(NANAR Ed for det a to 55 kt 67 s 医肌肉 的复数风风 BOBBESH SKE BERNE 1413 國家國家國家國家 ANNER DISPLACED - 35 12 39 22 EXCAVATED SKID TRAIL SMZ/ROCK COMMENTS (Include soil, geology, organic debris-large & small, erosion, road drainage, other pertinent info) Dozer line fineline - unacceptably wide, displaced sil. Topography incluenced steid pastern - teansects 1 to steids. Clipper teaches, up on slopes caused some enting & displacement. Moist during ops? to Alkali Lake SHAPE OF UNIT AND PATTERN OF TRANSECT # = landings OMPACTION (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. <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	1	Transec	t 2	Transe	ct 3	Transe	ct 4	Transec		TOT	
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
D HEAVY i	33	17	32	11	42	13	46	18			153	14.5
s LIGHT t	93	47	145	51	171	54	132	52			541	51.5
u UNDISTURB r	70	36	108	38	103	33	74	30			355	34
b PAST ACTIVITY												
TOTALS	196	100	285	100	316	100	252	,			1049	100
DISPLACED	4	2	9	Ş	1	41	1	41			15	1
EROSION		•	ſ									
PUDDLED												
SMZ												
ROCK												
BURN PILES										-		

07/26/2002 Fortine - Timber Lake Unit 7 **KOOTENAI NATIONAL FOREST** 32101149 SOIL DISTURBANCE MONITORING FORM 7.26.02 Juneal DATE CUTTING METHOD SKIDDING METHOD OBSERVER If tractor: dedicated DISTRICT persed SALE/S.A. HAZARD TREATMENT 02 Unit # SILVICULTURAL TRMT Acres 500 5 OPERATION PERIOD H.T. 0 Z Slope Aspect i 40 315 Location Elevation I 33*00* ver 4 20 X X IS COMPACTION (Heavy) X 8 121 PAST ACTIVITY 52 **COMPACTION** (Light) X X X X X <u>NNNNNN</u> $\Box \mathcal{Z}$ $\mathbf{\Sigma}$ 29 102 UNDISTURBED DAN NAKARAMANN' DISPLACED R . **EXCAVATED SKID TRAIL** SMZ(ROCK) 8 8 COMMENTS, (Include spil, geology, organic debris-large & small, erosion, road drainage, other pertinent info) (placial till Wort less Excavatore bucket width is suffic fireline. -dozer wide Edistmet S-Central 2-sided ridge underlan by BKX. M trong what Olipper - hand Villed on steep pretins. SHAPE OF UNIT AND PATTERN OF TRANSECT to Alkali



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 acitvity. DISPLACED - 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

07/02

	Transect		Transect	2	Transec	t 3	Transec	t 4	Transect		ТОТ	
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
D HEAVY i	30	13	26	14		10 1/1					56	<u>18,5</u>
s LIGHT t	127	54	52	29		<u></u>					179	43
u UNDISTURB r	79	33	102	51						-	181	<u>43,</u> 5
b PAST ACTIVITY												
TOTALS	236	100	180	100							416	
DISPLACED	3	1	4	2							7_	ス
EROSION						- -						
PUDDLED												
SMZ												
ROCK	1	41	1	<u> </u>		<u> </u>		 .			2	۷ (۲
BURN PILES												

08/01/2002 Fortine - Thirsty Lake Unit 24 **KOOTENAI NATIONAL FOREST** 32002056 SOIL DISTURBANCE MONITORING FORM DATE **CUTTING METHOD** Sautrant SKIDDING METHOD OBSERVER cat DISTRICT If tractor: dispersed dedicated SALE/S.A. HAZARD TREATMENT Entire free no ber SILVICULTURAL TRMT Unit # 24 Acres K OPERATION PERIOD H.T. DF arv NE 25-40+ Aspect | Slope 39.20 --Elevation I 4040 Location min $\tau^{\prime}t$ COMPACTION (Heavy) XI PAST ACTIVITY 89 NANANANAN COMPACTION (Light) 85 20 DISPLACED EXCAVATED SKID TRAIL SMZ/ROCK COMMENTS (Include soil, geology, organic debris-large & small, erosion, road drainage, other pertinent info) runt of detrimen 2 - Calco reaso algerent 0 -MA lanc SHAPE OF UNIT AND PATTERN OF TRANSECT 11mitzil Unit 27 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 acitvity. DISPLACED - 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 07/02

1	Transect	1	Transec	1 2	Transec	t 3	Transe		Transec		TOT	
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
DHEAVY	17	9									17	9
LIGHT	89	45									89	45
	85	43									85	43
	27	3									7	3
TOTALS	198	100									198	100
DISPLACED	20	10									20	10
EROSION												
PUDDLED												
SMZ												
ROCK												
BURN PILES												

Combining current & past Seturiental Listerstones equals a dotal of 12% for this activity area.

08/01/2002 Fortine - Thirsty Lake Unit 27 32002059 DATE $8 - 1 - 2002$ DATE $8 - 1 - 2002$ DATE $8 - 1 - 2002$	KOOTENAI NATIONAL FOREST
Unit 27 32002059 DATE <u>8-1-2002</u>	
32002059 * DATE <u>8-1-2002</u>	
DATE <u>8-1-2002</u>	
	SOIL DISTURBANCE MONITORING FORM
	CUTTING METHOD sound end clus on
	SKIDDING METHOD Salvalaa Curpa
DISTRICT Fronting	If tractor: dispersed dedicated
SALE/S.A. Thistin Lake	HAZARD TREATMENT fimb + lop, encavator lingling
Unit # 27 Acres 3/	SILVICULTURAL TRMT LTM SW Speed 16 240
H.T. DF/Carw/Aruv_	OPERATION PERIOD Summer '02
Slope 0-30 yeryby	oken Aspect NE
Location med - upp	e_{1} Elevation 1 40 40 - 4300
COMPACTION (Heavy) E DL	<u> </u>
XXI. 24	
PASTACTIVITY	187
COMPACTION (Light)	
	XXXXXXXX 200
	KINDRINI LE 129
17.47	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
	- I share
DISPLACED DE 25 DAT 13	
EXCAVATED SKID TRAIL	
SMZ/ROCK	
indform mostly "Kett	Le + Drum" on a moderate slope.
SHAPE OF UNIT AND PATTERN OF	TRANSECT
SHAPE OF UNIT AND PATTERN OF	TRANSECT
SHAPE OF UNIT AND PATTERN OF	TRANSECT
SHAPE OF UNIT AND PATTERN OF	TRANSECT
SHAPE OF UNIT AND PATTERN OF	TRANSECT
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SHAPE OF UNIT AND PATTERN OF	
SHAPE OF UNIT AND PATTERN OF	
COMPACTION (Heavy) - Any place wh	

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

1	Transect	1	Transec	2	Transe	ct 3	Transe	ct 4	Transec		TOT	
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
D HEAVY	25	1	24	7						7	49	
s LIGHT t	187	55	206	5B							393	57
u UNDISTURB	127	38	125	35							252	36
b PAST ACTIVITY	-											·
TOTALS	339	100	355	100				S. S. S. Law Y			694	100
DISPLACED	10	3	13	4				No.	1. Alerta S		23	3
EROSION						· · · .						
PUDDLED												
SMZ									i janja Li		5 - 1 - 4	
ROCK											-	
BURN PILES								ing and a second se		an a		
	 ;	<u>1</u>			<u></u>	<u> </u>		24 - 24 - 4 -				1. / 1. 1

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20101110 NI- (115 07/26/2002 Fortine - Roberts Mountain **KOOTENAI NATIONAL FOREST** Unit 5 & 10 32901115 SOIL DISTURBANCE MONITORING FORM DATE CUTTING METHOD 26.0 SKIDDING METHOD OBSERVER DISTRICT If tractor: dispersed dedicated ortine nderstory HAZARD TREATMENT SALE/S.A. oberto Mia bur 5. SILVICULTURAL TRMT Unit # 5 -10 Acres 10 -H.T. OPERATION PERIOD ε Slope Aspect | 3200 Elevation I Location COMPACTION (Heavy) g 35 ANNA (So N 因此因:: 6 DIZ PAST ACTIVITY COMPACTION (Light) (194)I 22 风的复数风险 UNDISTURBED DI A MINING A BLA A *\$ 5 N Q Q* 因区 N N 赵闼团团 HE REALENDAD (B) DISPLACED **EXCAVATED SKID TRAIL** SMZ/ROCK COMMENTS (Include soil, geology, organic debris-large & small, erosion, road drainage, other pertinent info) · Unit has been brench-when? Looks like broadcast brun - spring 'DI. clossed skid teails and undistin · Ransect 2 is more varied / butter representation of unit · Zindence of cattle use, but not recent (not this Stater Douiexeltail threngthat unit w/ a fin incentrated protects Some deep Ruthing, suggests operation on wet/mist soils. Very rd strumpt m E streip & Unit 10 -> this survey did not eccognize any impacts but od strumps = post reliations have occurred. SHAPE OF UNIT AND PATTERN OF TRANSECT prot activities alcareous glucial fill Want bress. 1043 -ΤO 1042 ٥/ 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 acitvity.

DISPLACED - 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	1	Transec	t 2	Transe	t 3	Transe		Transec		TOT	
		Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
	D HEAVY . (0.*	58	16	50	19.6	34	11.8	34	12.5			176	15
$^{\prime}0_{j}$	s LIGHT t	184	52	106	45	140	49_	138	51			518	49
	u UNDISTURB	145	32	89	<u> 35 </u>	113	39	98	36	 -		415	36
	b PAST ACTIVITY			. ڪسي				ا بعد ، ، ج	 				
	TOTALS	351	100	255	100	287	100	270	100			1169	100
	DISPLACED	2	4					1 - 14	Sec.	A ANTARY I		2	
	EROSION			v.		· · - 2:							
	PUDDLED								<u> </u>				
	SMZ												· · · · ·
	ROCK												
	BURN PILES												
		a start			-L								
			n Ny Solatan Ny Solatan										atter anna 1
							n Na Stationa Na Stationa			n - Eise Eisekkelte Linestikers			ж. — — — — — — — — — — — — — — — — — — —

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08/07/2002 1104114 **Three Rivers - Shimmering Grouse** Foist Unit 10 KOOTENAL NATIONAL FOREST 44004114 SOIL DISTURBANCE MONITORING FORM DATE 102 **CUTTING METHOD** V. OBSERVER SKIDDING METHOD non DISTRICT If tractor: dispersed dedicated Kever SALE/S.A. 5 HAZARD TREATMENT Impro Ammening Grouse raid Ini Unit # SILVICULTURAL TRMT Acres +GFt ALL H.T. DP **OPERATION PERIOD** 7 WH ・ゆつ ma Slope Aspect lesterly -un arch Location 2800 Elevation I wen 60 COMPACTION (Heavy) AND AND AD AND AND 53 X X X X X X PAST ACTIVITY 265 COMPACTION (Light) NX XXXX a arma 25 NNNNNNN 240 DISPLACED 3 EXCAVATED SKID TRAIL Ludling 52 SMZ/POCK COMMENTS (Include soil, geology, organic debris-large & small, erosion, road drainage, other pertinent info) -Bo Enel sme Son w m rad common speedwell SHAPE OF UNIT AND PATTERN OF TRANSECT

<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. <u>COMPACTION (Light)</u> - Any other area not included in heavy COMPACTION or UNDISTURBED. <u>UNDISTURBED</u> - 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/BOCK/BURN PILE</u> - Include within transect if within heaviest unit

	Transect	1	Transec	t 2	Transe	ct 3	Transe	ct 4	Transec		TOT	
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
D HEAVY i	60	10	53	10							113	10
s LIGHT t	265	46	238	45							503	45
	258	44	240	45		i 					498	45
b PAST ACTIVITY												
TOTALS	593	100	53	100	_	· · · · ·					1114	100
DISPLACED	28	5	-								28	3
EROSION												
PUDDLED	3	1	5	1							B	
SMZ												
ROCK	13	2									13	_/
BURN PILES												

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44004146 08/07/2002 Foust Three Rivers - Shimmering Grouse **KOOTENAI NATIONAL FOREST** Unit 11 44004146 "SOIL DISTURBANCE MONITORING FORM CUTTING METHOD DATE SKIDDING METHOD OBSERVER If tractor: dispersed dedicated DISTRICT HAZARD TREATMENT SALE/S.A. 5 to Spol somering (SILVICULTURAL TRMT SW Unit # Acres 3 OPERATION PERIOD H.T. CA ≠ωH ΔZ Aspect | easter Slope (Aq) Elevation | 2500 Location wer Л 253 PAST ACTIVITY COMPACTION (Light) XXXXXI 163 197 7311 DISPLACED 1 EXCAVATED SKID TRAIL rutting SMZ/ROCK/ COMMENTS (Include soil, geology, organic debris-large & small, erosion, road drainage, other pertinent info) resembling autiral tenance some kette ograph. Johnohen ka esk Trails utting SHAPE OF UNIT AND PATTERN OF TRANSECT

<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. <u>COMPACTION (Light)</u> - 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. SMZ/ROCK/BURN PILE - Include within transect if within harvest unit

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	Transect	1	Transec	t 2	Transe	ct 3	Transe	ct 4	Transec		TOT	
;	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
D HEAVY i	49	11	53	11						•	102	11
s LIGHT t	253	54	240	49						1	493	52
u UNDISTURB	163	35	197	40				<u></u>			360	37
b PAST ACTIVITY							an an ann	tağılır. T			<u> </u>	
TOTALS	465	100	490	100	22	aliantian etantian					955	100
DISPLACED	6	1	7	100							13	-1
EROSION					· · · · ·			Nikestal Mala			4	21
PUDDLED	4	1			· · · ·		and a second	den er er				
SMZ								. ²				4
ROCK												
BURN PILES							n an An An An An					
	<u>1</u>				·		- Udrew		a factor a t	. e der tals	in the Line sector	

08/07/2002 Fourt 44004132 Three Rivers - Shimmering Grouse Unit 13 44004132 SOIL DISTURBANCE MONITORING FORM ・つま DATE **CUTTING METHOD** SKIDDING METHOD OBSERVER nen DISTRICT If tractor: dispersed dedicated iner yard 5D SALE/S.A.SK HAZARD TREATMENT to immen Crous Unit # SILVICULTURAL TRMT rovemen _13 Acres OPERATION PERIOD H.T. GF 0 Mary/ 59 -40 Slope Aspect i 2500 COMPACTION (Heavy) X X X 31 Elevation I CAND 18 PAST ACTIVITY 138 COMPACTION (Light) ۶ ,171 X **EXCAVATED SKID TRAIL** SMZ/ROCK COMMENTS (Include_soil, geology, organic debris-large & small, erosion, road drainage, other pertinent info) ackin 1-m In Sai ran) ura ò win SHAPE OF UNIT AND PATTERN OF TRANSECT

<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. <u>COMPACTION (Light)</u> - Any other area not included in heavy COMPACTION or UNDISTURBED. <u>UNDISTURBED</u> - No signis of any machinery or skidding acitvity. <u>DISPLACED</u> - Any place soil has been mounded by machinery, also include in heavy or light compaction.

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DISPLACED - Any place soil has been mounded by machinery, also include in neavy or light compactic SMZ/POCK/BUDN BILE - Include within transact if within her part unit

	Transec	1	Transec	t 2	Transe	ct 3	Transe	ct 4	Transec		TOT	
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
D HEAVY	31	9	28	8_							59	8
s LIGHT t	138	41	151	41							289	41
u UNDISTURB r	121	50	191	51							362	51
b PAST ACTIVITY	·											· · · · · · · · · · · · · · · · · · ·
TOTALS	340	100	370	100							710	100
DISPLACED	10	3	5					san gara	Mar		15	2
EROSION											+ 1	
PUDDLED										a da		
SMZ												
ROCK			-									
BURN PILES				· · · · · · · · · · · · · · · · · · ·								
	<u></u>	L	1			l	<u> </u>			1		

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08/07/2002 44904141 Vouet **Three Rivers - Shimmering Grouse** Unit 14 **KOOTENAI NATIONAL FOREST** 44004147 SOIL DISTURBANCE MONITORING FORM 1.02 CUTTING METHOD DATE OBSERVER SKIDDING METHOD dedicated If tractor: DISTRICT dispersed HAZARD TREATMENT San SALE/S.A. ≤ mming Oracle SILVICULTURAL TRMP Unit # Acres / OPERATION PERIOD man H.T. Ċ his 02 w Aspect | Slope 2400 Elevation I Location owen COMPACTION (Heavy) 58 X: Ø PAST ACTIVITY 137. MAAAA: COMPACTION (Light) X Ę $\boxtimes \boxtimes \boxtimes$. XXXXI EEXXX UNDISTURBED XX DISPLACED : 21 : 11 1:26 28 38 : EXCAVATED SKID TRAIL SMZ/ROCK COMMENTS (Include soil, geology, organic debris-large & small, erosion, road drainage, other pertinent info) d usken the sorts o Tinte a. SHAPE OF UNIT AND PATTERN OF TRANSECT

<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. <u>COMPACTION (Light)</u> - 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. SMZ/ROCK/BURN PILE - Include within transect if within harvest unit

week

	Transect	1	Transec		Transe		Transec		Transec Pts.	t 5 %	TOT Pts.	%
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	P15.	/0	1.0.	
DHEAVY	20	28	. 11	16	9	9	13	14	15	11	and the second second	- -
s LIGHT	30	42	3/4	44	45	45.5	38	41	52	39		
UNDISTURB	20	28	27	39	45	45.5	37	40	68	50		
b PAST ACTIVITY	2	2	1	1	·	-	4	5				
TOTALS	72	100	70	100	99	100	92	100	135	100		
DISPLACED	- 158 -	2	2	3	5	5	5	5	3	2		.
EROSION			- Carlor -			Territoria and						Summer .
PUDDLED	and the grade the but		<u>, 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997</u>	1								
SMZ	1953 at 195											
ROCK			1									
BURN PILES												
20/70						ct If within			loni - <u>31</u> 1	ิล มษกธ	INDOU/Z	ws
20/70	Transec		Transe	TRAN		UMMAR	FORM	l 				
	at a ga a ta a	et (2 5	Transe Pts.	TRAN	ISECT S	UMMAR		l 	Dul - 371 Transe Pts.			TALS
D HEAVY	Transec			TRAN	ISECT S	SUMMAR	FORM	ect 4	Transe	ect 5	TO Pts.	
D HEAVY i s LIGHT	Transec Pts.	<u>%</u> 4		TRAN	ISECT S	SUMMAR	FORM	ect 4	Transe	ect 5	TO Pts. 72	
D HEAVY i s LIGHT t	Transec Pts.			TRAN	ISECT S	SUMMAR	FORM	ect 4	Transe	ect 5	TO Pts.	
D HEAVY i s LIGHT t u UNDISTURB	Transec Pts.	<u>%</u> 4		TRAN	ISECT S	SUMMAR	FORM	ect 4	Transe	ect 5	TO Pts. 72 267	
D HEAVY i s LIGHT t u UNDISTURB r b PAST ACTIVITY	Transec Pts. 4. 7]	% 4 64		TRAN	ISECT S	SUMMAR	FORM	ect 4	Transe	ect 5	TO Pts. 72	
D HEAVY i s LIGHT t u UNDISTURB r b PAST ACTIVITY TOTALS	Transec Pts. 4. 7]	% 4 64		TRAN	ISECT S	SUMMAR	FORM	ect 4	Transe	ect 5	TO Pts. 72 267 232 7	
D HEAVY i s LIGHT t u UNDISTURB r b PAST ACTIVITY TOTALS DISPLACED	Transec Pts. 4. 7/ 35	% 4 64 32 -		TRAN	ISECT S	SUMMAR	FORM	ect 4	Transe	ect 5	TO Pts. 72 267	
D HEAVY i s LIGHT t u UNDISTURB r b PAST ACTIVITY TOTALS DISPLACED EROSION	Transec Pts. 4. 71 35 	% 4 64 32 -		TRAN	ISECT S	SUMMAR	FORM	ect 4	Transe	ect 5	TO Pts. 72 267 232 7	
D HEAVY i s LIGHT t UNDISTURB r b PAST ACTIVITY TOTALS DISPLACED EROSION PUDDLED	Transec Pts. 4. 71 35 	% 4 64 32 -		TRAN	ISECT S	SUMMAR	FORM	ect 4	Transe	ect 5	TO Pts. 72 267 232 7	
D HEAVY i s LIGHT u UNDISTURB r b PAST ACTIVITY TOTALS DISPLACED EROSION PUDDLED SMZ	Transec Pts. 4. 71 35 	% 4 64 32 -		TRAN	ISECT S	SUMMAR	FORM	ect 4	Transe	ect 5	TO Pts. 72 267 232 7	
D HEAVY i s LIGHT t UNDISTURB r b PAST ACTIVITY TOTALS DISPLACED EROSION PUDDLED	Transec Pts. 4. 71 35 	% 4 64 32 -		TRAN	ISECT S	SUMMAR	FORM	ect 4	Transe	ect 5	TO Pts. 72 267 232 7	
D HEAVY i s LIGHT u UNDISTURB r b PAST ACTIVITY TOTALS DISPLACED EROSION PUDDLED SMZ	Transec Pts. 4. 71 35 	% 4 64 32 -		TRAN	ISECT S	SUMMAR	FORM	ect 4	Transe	ect 5	TO Pts. 72 267 232 7	

44103168 08/08/2002 **Three Rivers - Pine KOOTENAI NATIONAL FOREST** Unit 45 44703168 SOIL DISTURBANCE MONITORING FORM sper/hand **CUTTING METHOD** DATE OBSERVER SKIDDING METHOD nnen ŻA DISTRICT If tractor: dedicated dispersed HAZARD TREATMENT SALE/S.A. SILVICULTURAL TRMT ITM Unit # Acres $\mathcal{T}\mathcal{T}\mathcal{D}$ Improvemento H.T. **OPERATION PERIOD** Slope Aspect I - -Location Elevation I 950 COMPACTION (Heavy) M PAST ACTIVITY COMPACTION (Light) NNNN **MXXX** UNDISTURBED A BARAN BARAN BARAN NANNANN DISPLACED EXCAVATED SKID TRAIL L FEL SMZ/ROCK ∇ COMMENTS (Include soil, geology, organic debris-large & small, erosion, road drainage, other pertinent info) to bedroch هذيه لا 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 acitvity. DISPLACED - Any place soil has been mounded by machinery, also include in heavy or light compaction. SM7/ROCK/BURN PILE - Include within transect if within harvest unit

07/02

	1			TRANS	SECT SU	IMMARY	FORM					
	Transec	ver	Transec		Transed	ot 3	Transe	ct 4	Transec		тот	
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
D HEAVY	23	5	15	5							38	5
s LIGHT t	185	45	174	64							359	52
u UNDISTURB	198	48	28	28							276	40
b PAST ACTIVITY	10	2	B	3							318	3
TOTALS	416	100	215	100							691	100
DISPLACED	13	3	8	3			and the	u an suise Martin San San S			21	3
EROSION	5	1	.5	2							10	(
PUDDLED												
SMZ												
ROCK	10	2	6	2						· .	16	2
BURN PILES		,		-		est et .						
		<u> </u>	1		l,			.				

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08/08/2002 44703209 Three Rivers - Jeanne's Last Review Unit 15 **KOOTENAI NATIONAL FOREST** 44703209 SOIL DISTURBANCE MONITORING FORM **GUTTING METHOD** cupper DATE OBSERVER SKIDDING METHOD 5 nn DISTRICT If tractor: dispersed dedicated V HAZARD TREATMENT BB-C SALE/S.A. SILVICULTURAL TRMT Unit # Acres seed reser **OPERATION PERIOD** H.T. GĔ 101 Aspect | what little Slope s to the mert Elevation 1 2200 - 2280 Location wer COMPACTION (Heavy) M PAST ACTIVITY NNNNNN 128 XXXXXXXXXX/ 143 DISPLACED EXCAVATED SKID TRAIL SMZIROCR XIXX COMMENTS (Include soil, geology, organic debris-large & small, erosion, road drainage, other pertinent info) so scotterel throughout. Good ash cap o stum 410 rolh conto nS eoaroun unden in 1 - surviving / speedwell la Scatteres pweed SHAPE OF UNIT AND PATTERN OF TRANSECT

<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. <u>COMPACTION (Light)</u> - Any other area not included in heavy COMPACTION or UNDISTURBED. <u>UNDISTURBED</u> - 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/ROCK/BURN PILE</u> - Include within transect if within harvest unit

	Transect		Transec	t 2	Transe	ct 3	Transe	ct 4	Transec	t 5	TOT	ALS
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
D HEAVY	15	4	15	4							30	4
s LIGHT	197	56	198	54							395	55
	128	37	143	39			-				271	38
b PAST ACTIVITY	10	3	10	3							20	3
TOTALS	350	100	366	100			÷				716	100
DISPLACED	8	2	5	1		1. 342				ha fin de Sela a fa	13	2
EROSION							in a gin An an an an					
PUDDLED				· · ·								
SMZ											1 - 1 - 1 - 1	A
ROCK	10	3	20	5							30	4
BURN PILES												

Combining current + part tetrimental disturbance equals 7% for this activity area.

08/28/2002 TULOS Libby - North McSwede Unit 33 KOOTENAI NATIONAL FOREST 52902039 SOIL DISTURBANCE MONITORING FORM Soche Lekember -28.0,-2 -sawherd hand DATE CUTTING METHOD when RTS SKIDDING METHOD OBSERVER dedicated DISTRICT If tractor: dispersed 19/02 pili **HAZARD TREATMENT** xxle SALE/S.A. N. inna SILVICULTURAL TRMT 33 Unit # ₽F Acres OPERATION PERIOD F/SppeH.T. DF/Ann -17F1 Slope 30 (35 Aspect mostlyn 360 Location Elevation | 3400 COMPACTION (Heavy) X X er 1 500 r 31 M 32 XXXX 2 **\$**\$ PAST ACTIVITY COMPACTION (Light) 1 k XXX 5 NANAAA UNDISTURBED MANNAM 2 NIX X X X X X 12 12 12 33 Ø. DISPLACED **EXCAVATED SKID TRAIL** SMZ/ROCK (Include soil, geology, organic debris-large & small, erosion, road drainage, other pertinent info) COMMENTS - 207 years o that 4 15.,01 d -10 Att 6 a residens ver man SHAPE OF UNIT AND PATTERN OF TRANSECT 0 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 acitvity.

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

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	Transec	t 1	Transec	t 2	Transe	ct 3	Transe		Transec		тот	
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
D HEAVY i	31	5	10	4	3	2_	6	4	38	8	8Z	5
s LIGHT t	347	51	140	55	10	47	85	55	282	60	924	56
u UNDISTURB	229	37	105	41	77	51	64	41	150	32	625	38
b PAST ACTIVITY	4	1									4	~1
TOTALS	611	100	255	100	150	100	155	100	470	100	1641	
DISPLACED	8	1	75	3	- 5	3	5	3	12	T 3	37	え
EROSION											Render un Lesso de	
PUDDLED				in the			1. A. 1.					
SMZ							r.			ا الم الم الم الم الم الم الم الم الم ال		
ROCK												
BURN PILES					*							
			<u> </u>	[, <u>k</u>	L	<u> </u>	<u> </u>		Lange Collection (Sec. 1993)	l Alfred States	

Combining Convent & part Setrimental Sisterhauco equals 5.5% for this activity unit.

52904141 10/23/2002 Libby - North McSwede Unit 43 KOOTENAI NATIONAL FOREST 52904141 SOIL DISTURBANCE MONITORING FORM DATE CUTTING METHOD SKIDDING METHOD OBSERVER reli dedicated DISTRICT If tractor: dispersed SALE/S.A. HAZARD TREATMENT Pt ٨-30 SILVICULTURAL TRMT Unit # 1 Acres ZÓ mprovement H.T. -QPERATION PERIOD τD Ď 5-56 Slope Aspect | Elevation I Location 3900 3500-COMPACTION (Heavy) PAST ACTIVITY MMMMI COMPACTION (Light) &] & X RURE NAMANANA L 95 ANG NAMANA XXX 138 UNDISTURBED ARA AN AND AN NNNNN NANART 47 XX NANNA DISPLACED EXCAVATED SKID TRAIL SMZ/ROCK COMMENTS (Include soil, geology, organic debris-large & small, erosion, road drainage, other pertinent info) 1.5 in a 4.000 01 0 VC 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 acitvity. DISPLACED - 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	1	Transec	xt 2	Transe	ct 3	Transe	ct 4	Transec		TOT	
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
D HEAVY i	10	5	5	3	12	1_	11	5			38	_5
s LIGHT t	95	45	92	60	95	53	138	51			420	54
u UNDISTURB	102	49	53	35	67	37	88	36			310	39
b PAST ACTIVITY	3	<u> </u>	3	2	de	3	le	2			18	ス
TOTALS	210	100	153	100	18:0	100	243	100			186	100
DISPLACED	10	5	3.3	2	15	8	15	; <i>1</i> 6			43	5
EROSION										• •		
PUDDLED												
SMZ											a de la composición de	
ROCK												
BURN PILES												
		L	<u> </u>	<u> </u>	<u> </u>	·	- L				a se se s	

Combining current and pret detrimental distinont equals 7 25 for this activity area.

10/23/2002 Libby - North McSwede Unit 44 52904142	52454142 KOOTENAI NATIONAL FOREST SOIL DISTURBANCE MONITORING FORM	
DATE <u>ID</u> 23/03 OBSERVER <u>Kuenner</u> DISTRICT <u>Libby</u> SALE/S.A. N. McSwede Unit # <u>44</u> Acres H.T. <u>DF/Arw</u> DE/C Slope <u>Insten</u> 1055 Location <u>Mid</u> COMPACTION (Heavy) [X]	SKIDDING METHOD IV RTS-grapple If tractor: dispersed // dedicated /CrawforthAZARD TREATMENT Lop + sector II SILVICULTURAL TRMT LTM SW Seed freg	
PAST ACTIVITY 5 L F COMPACTION (Light) XXX Disturbance		AN IID
42 UNDISTURBED 図図図図:		
DISPLACED L. 12.17		······································
EXCAVATED SKID TRAIL		
SMZ/ROCK		
voch contrat (323) nd is more like a Old Stymps The Very little compaction	had old activity (Clife Shidder). Soil - Leep fill wi No yokinic ash. Silvicultural treatment/ seedtree. Left PP, DF, twi y they were pre sughout whet. on displacement.	sent.
SHAPE OF UNIT AND PATTER	N OF TRANSECT	
	HALLER HALLER	
heavily and lightly used dependin COMPACTION (Light) - Any othe UNDISTURBED - No signs of any DISPLACED - Any place soil has	been mounded by machinery, also include in heavy or light compaction.	

	Transect	1	Transec	t 2	Transe	ct 3	Transe	ct 4	Transed	xt 5	ΤΟΤ	
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
D HEAVY	10	7	8	6_	00	4		н 2 ле		- N	26	6
s LIGHT t	78	58	83	58	110	62					271	59
u UNDISTURB r	42	31	48	33	55	31					145	32
	5	Ч	5	3	5	3					15	3
TOTALS	135	100	144	100	178	100					457	100
DISPLACED	S	4	4	3	8	4					17	Ч
EROSION												
PUDDLED	ng tertitak P								1997 (1273) 1997 - 1997 (1273)			
SMZ												
ROCK		· .			1							
BURN PILES												

Combining current and past detrimental disturbance equals 9th for this activity area.

Kecheck 53101090 08/27/2002 Libby - North McSwede Unit 52 **KOOTENAI NATIONAL FOREST** - 1 **4** 7 **3** 1 53101090 SOIL DISTURBANCE MONITORING FORM CUTTING METHOD Upper Saw Leel DATE .02 SKIDDING METHOD 5 OBSERVER If tractor: dedicated DISTRICT dispersed HAZARD TREATMENT YD SALE/S.A. A took DF SILVICULTURAL TRMT Unit# 52 Ingrov Acres T, OPERATION PERIOD H.T. \mathcal{DF} sw/ Aspect | Slope Elevation | 4440 -4520 Location COMPACTION (Heavy) **NAL** I PAST ACTIVITY A " 35 COMPACTION (Light) BL 90 UNDISTURBED AN BARANS XX 28 DISPLACED EXCAVATED SKID TRAIL SMZ/ROCK COMMENTS (Include soil, geology, ørganic debris-large & small, erosion, road drainage, other pertigent info) before. Hard to fell DÀ tun SHAPE OF UNIT AND PATTERN OF TRANSECT 52 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.

<u>UNDISTURBED</u> - 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. SMZ/BOCK/BUBN PILE - Include within transect if within harvest unit

	Transect	wer	Transec		Transed	ct 3	Transe	ct 4	Transec			ALS
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
D HEAVY	25	11	25	12							50	11_
s LIGHT t	111	47	88	42							199	45
u UNDISTURB	90	38	86	41					· · · ·		176	39
b PAST ACTIVITY	10	4	2/1	5							21	5
TOTALS	236	100.	210	100							446	100
DISPLACED	8	3									B	2
10 shiftmai	65	2									5	
PUDDLED												
SMZ								e e la de	· · · ·	1 - 14 <u>1</u>		
ROCK												
BURN PILES												

53101096 10/23/2002 Libby - North McSwede Unit 55 **KOOTENAI NATIONAL FOREST** 53101096 SOIL DISTURBANCE MONITORING FORM unn Timio ,23,02 CUTTING METHOD DATE OBSERVER SKIDDING METHOD DISTRICT If tractor: persed dedicated SALE/S.A. /Y HAZARD TREATMENT McSwede SILVICULTURAL TRMT rovenen To Unit # Acres H.T. - DELEE OPERATION PERIOD Nov. 10 Aspect I SW - W Slope Location Elevation | 3500 - 3650 mis COMPACTION (Heavy) PAST ACTIVITY 0 COMPACTION (Light) MM NANNAN UNDISTURBED & XXXXX DISPLACED 17 **EXCAVATED SKID TRAIL** SMZ/ROCK COMMENTS (Include soil, geology, organic debris-large & small, erosion, road drainage, other pertinent info) ing-put tobed ~100ydalandre ourel Alst aller schrace ill resid eral. to Uni ners SHAPE OF UNIT AND PATTERN OF TRANSECT Temp, rood recontoured 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 acitvity.

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

[Transect	1	Transec	t 2	Transed	ot 3	Transe	ct 4	Transec	t 5	TOT	
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
D HEAVY	3	2	3	2					an e st		6	2
s LIGHT t	90	59	72	48							162	53
u UNDISTURB r	60	39	73	49					, <u></u>	an a	133	-44
b PAST ACTIVITY	0	Ð	2	1			1.4 - 1 				2	1
TOTALS	153	100	150	100							303	100
DISPLACED	8	5	0	0			and the second		S. C. S. S. S.		8	ेउ
EROSION			•							alan Alan Marina		
PUDDLED	а 				an Sara			ag de la ce				
SMZ										aker of Sala.		
ROCK	. "											
BURN PILES												

Combining current and past detrimental distin equals 3 % for this activity area.

08/27/2002 100-109 Libby - North McSwede Unit 57 KOOTENAI NATIONAL FOREST 53101098 SOIL DISTURBANCE MONITORING FORM .02 CUTTING METHOD DATE -sauker cll CA IN SKIDDING METHOD OBSERVER DISTRICT If tractor: dispersed dedicated SALE/S.A. N. Mc Swed AZARD TREATMENT \mathcal{PD} 45 Unit # 🐠 3 SILVICULTURAL TRMT 7 Acres moin OPERATION PERIOD DF Н.Т. DF Car Non 12 ろうちを Slope Aspect i 3750-4000 Location Elevation I 16 weri COMPACTION (Heavy) 区区区区(2区区区(42 303 PAST ACTIVITY D 360 X W W W W W W MM I DISPLACED a MII **EXCAVATED SKID TRAIL** SMZ/ROCK) : { COMMENTS (Include soil, geology, organic debris-large & small, erosion, road drainage, other pertinent info) lots of sma ð acas undo Di ø More Sur SHAPE OF UNIT AND PATTERN OF TRANSECT 4769 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>COMPACTION (Light)</u> - Any other area not included in heavy COMPACTION or UNDISTURBED. <u>UNDISTURBED</u> - No signe of any machinery or skidding acitvity.

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

1	Transect	1	Transec	t 2	Transe	ct 3	Transe		Transec		TOT	
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
DHEAVY	48	8	42	6				· · • ·	n an sairte an		90	_7_
s LIGHT	303	52	360	53				2 <u>/</u>			663	52
u UNDISTURB	230	40	283	41							513	4)
b PAST ACTIVITY										1		···
TOTALS	581	100	685	100							266	100
DISPLACED	13	2	11	2			1000				24	2
EROSION												
PUDDLED									х. 			
SMZ									2.1°			
ROCK	4		2									
BURN PILES												

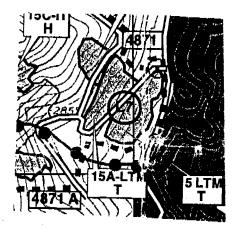
a a seriel y statistica e construction and a serie a s A serie a diversativation a serie a seri A serie
55302058 - 35A 55302051 - 43A 09/25/2002 55302038 Libby - Barron Jack Salvage **KOOTENAI NATIONAL FOREST** 55302051 Unit 3B SOIL DISTURBANCE MONITORING FORM **CUTTING METHOD** DATE inner SKIDDING METHOD OBSERVER DISTRICT If tractor: dispersed dedicated SALE/S.A. Barron HAZARD TREATMENT N 443 SILVICULTURAL TRMT 5D Jownhr 25/ Unit#373 Acres dea **OPERATION PERIOD** H.T. NE-Slope Aspect | Location Elevation I 4500 -4600 COMPACTION (Healy) 12 12 14 31 PAST ACTIVITY 176 DISPLACED - 5 EXCAVATED SKID TRAIL SMZ/ROCK () COMMENTS (Include soil, geology, organic debris-large, & small, erosion, road, drainage, other pertinent info) much There was a concern the 600 cement disall was mpacts coul have been anning generally were dod_ lood. SHAPE OF UNIT AND PATTERN OF TRANSECT 3B-SD LTN COMPACTION (Heavy) - Any place where future vegetative growth will be significantly impacted, i.e., skid trails (both

<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. <u>COMPACTION (Light)</u> - 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.

Transec	t 1	Transec	t 2	Transect	3	Transe	ct 4	Transec	t 5	ТОТ	ALS
Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
-413	-74							!		24/13	9
N.	54) <u> </u>	20-	54
	37									15.5	3.7
3.2	10-1									318	1:2
									•		
15	Ц									15	4
									•	-	
								1			
		-9/13 -7/4 202 - 54 13:5 - 31 2.2 - 101	Pts. % Pts. VIB -/-/-/ -	Pts. % Pts. % 13. 7.4 1 <td< th=""><th>Pts. % Pts. % Pts. 13 14 1 1 13 14 1 1 13 14 1 1 13 14 1 1 13 14 1 1 13 14 1 1 13 14 1 1 13 14 1 1 13 14 1 1</th><th>Pts. % Pts. % 13 14 1 54 54 1 13:5 37 1 3:5 10 1</th><th>Pts. % Pts. % Pts. 13 14 1 1 1 54 54 1 1 1 735 37 1 1 1 74 1 1 1 1</th><th>Pts. % Pts. % Pts. % 13 13 14 1 1 1 13 14 1 1 1 1 13 54 1 1 1 1 13 54 1 1 1 1 13 54 1 1 1 1 13 54 1 1 1 1 13 74 1 1 1 1 13 74 1 1 1 1 1 14 14 14 14 14 1 1 15 14 14 14 14 14 14 15 14 14 14 14 14 14</th><th>Pts. % Pts. % Pts. % Pts. 1/3 1</th><th>Pts. % Pts. % Pts. % Pts. % 13 14 1</th><th>Pts. % Pts. % Pts. % Pts. % Pts. 1/3 1/3 1</th></td<>	Pts. % Pts. % Pts. 13 14 1 1 13 14 1 1 13 14 1 1 13 14 1 1 13 14 1 1 13 14 1 1 13 14 1 1 13 14 1 1 13 14 1 1	Pts. % Pts. % 13 14 1 54 54 1 13:5 37 1 3:5 10 1	Pts. % Pts. % Pts. 13 14 1 1 1 54 54 1 1 1 735 37 1 1 1 74 1 1 1 1	Pts. % Pts. % Pts. % 13 13 14 1 1 1 13 14 1 1 1 1 13 54 1 1 1 1 13 54 1 1 1 1 13 54 1 1 1 1 13 54 1 1 1 1 13 74 1 1 1 1 13 74 1 1 1 1 1 14 14 14 14 14 1 1 15 14 14 14 14 14 14 15 14 14 14 14 14 14	Pts. % Pts. % Pts. % Pts. 1/3 1	Pts. % Pts. % Pts. % Pts. % 13 14 1	Pts. % Pts. % Pts. % Pts. % Pts. 1/3 1/3 1

Combining Summent and past detrimental tectustane Equals I Topon this activity area.

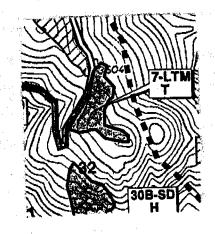


10/25/2002 55101025 Libby - Alexander Salvage Unit 7 **KOOTENAI NATIONAL FOREST** 55101025 10 - 63 44 - 44 - 5 SOIL DISTURBANCE MONITORING FORM CUTTING METHOD DATE SAW SKIDDING METHOD OBSERVER RTS DISTRICT If tractor: dedicated dispersed 4 SALE/S.A. HAZARD TREATMENT Unit # SILVICULTURAL TRMT Acres **OPERATION PERIOD** H.T. \mathcal{D} ohma arWAE Slope Aspect I Location aElevation I 3600 700 **COMPACTION** (Heavy) PAST ACTIVITY 124 COM (I) IS N IN AN NA X AN A A UNDISTURBED ON NN NK DISPLACED ïΧ **EXCAVATED SKID TRAIL** SMZ/ROCK COMMENTS (Include, soil, geology, organic debris-large & small, erosion, road drainage, other pertinent info) ned begno on Veryel đ 100 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 acitvity. DISPLACED - Any place soil has been mounded by machinery, also include in heavy or light compaction. SM7/BOCK/BLIDN DILE . Include within transact if within howest weit

			Turinoo	1 2	Transed	ct 3	Transe	ct 4	Transec	t 5	TOT	
	Transect Pts.	1%	Transec Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	_%
	19 19	6	7	3	2	5				ga garan	28	5
s LIGHT	124	31	100	48	24	57					248	42
	178	53	90	43	13	31	e Service	· · · ·	and the second	n an	281	48_
b PAST ACTIVITY	13	4	B	6	3	1	1				29	5
TOTALS	334	100	210	100	42	100		in the second se			586	100
DISPLACED	17	5	8	्म	3	7					28	5
EROSION								n a da ana an Na Santa ang ang ang ang ang ang ang ang ang an		977 - 1977 		
PUDDLED							1. 					
SMZ												
ROCK												· · · · · · · · · · · · · · · · · · ·
BURN PILES											6	
		1		<u>.</u>		<u> </u>	<u>. 1 </u>			and the factor of	an Angeler - A	· č

Combining current and past detrimental disturbance equals 10% for this activity area.

 $(x_1,x_2,\dots,x_n) = \sum_{i=1}^n \left(\frac{1}{2} \sum_{i=1}^n \frac{1}{2} \sum_{i=1}$



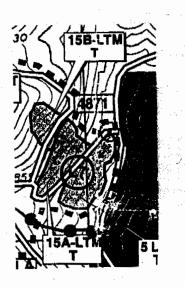
10/25/2002 55104079 Libby - Alexander Salvage Unit 15A **KOOTENAI NATIONAL FOREST** 55104079 SOIL DISTURBANCE MONITORING FORM 25,02 **CUTTING METHOD** DATE Saw OBSERVER SKIDDING METHOD 5 4 DISTRICT If tractor: dedicated dispersed SALE/S.A. A. HAZARD TREATMENT man SILVICULTURAL TRMT Unit # - 15 Acres OPERATION PERIOD H.T. ma Slope Aspect | Location Elevation | 3400 COMPACTION (Heavy) PAST ACTIVITY COMPACTION (Light) XXXXXXXX 750 UNDISTUBBED MAAAA 127 DISPLACED X **EXCAVATED SKID TRAIL** SMZ/ROCK COMMENTS (Include, soil, geology, organic debris-large & small, erosion, road drainage, other pertinent info) Unitivas 35 years ago. Glac ne moraina Volcenicas 1 sent ordo assall n Rad SKW = but כתדע conseness of minimin m SHAPE OF UNIT AND PATTERN OF TRANSECT OMPACTION (Heavy) - Any place where future vegetative growth will be significantly impacted, i.e., skid trails (both

<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. <u>COMPACTION (Light)</u> - 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. SMZ/ROCK/BURN PILE - Include within transact if within hanvost unit

	1			TRANS	SECT SL	JMMARY	FORM					
	lon	er	Tup	per.	Tranca	ct 3	Transe	ct 4	Transec	t 5	тот	ALS
	Transect Pts.	t 1 %	Transec Pts.	t 2 %	Transeo Pts.	<u>%</u>	Pts.	801 4	Pts.	%	Pts.	%
D HEAVY		4	3	i	1.0.	<u>, </u>					15	3
i s LIGHT	12	45		70							223	43
t u UNDISTURB	140	<u> </u>	83	39								1
r	150	49	127	59							277	53
b PAST ACTIVITY	5	2	2	1							7	1
TOTALS	307	100	215	100						a da anti-	522	100
DISPLACED	20	6	-	<u></u>							20	4
EROSION						1						
PUDDLED												
SMZ												
ROCK	2	,	-	-		-					2	б
BURN PILES												

Combining current and past detrimental disturbance equals a total of 4% for this activity area.



10/25/2002		9,12,137,32
Libby - Alexander	55104080	7,10-,60803-
Unit 15B	KOOTENAL NATIONAL FORES	-
55104080 ×4 ····	SOIL DISTURBANCE MONITORING	

DATE 10,25,02	CUTTING METHOD Saw	herd clipper
OBSERVER Kuennen	SKIDDING METHOD	KTS = 11
DISTRICT Libby		ersed dedicated
	HAZARD TREATMENT	ocyster burn
Unit # $\underline{/SB}$ Acres $\underline{/4}$ H.T. \underline{DF}	SILVICULTURAL TRMT <u>LT1</u> OPERATION PERIOD <	M Improvements
121-11111-	Aspect 55	minest '02 Jul '02
Location hwe		Sup
COMPACTION (Heavy) PJ 7		
<u> </u>		
PAST ACTIVITY		
COMPACTION (Light)		
XXXXXXI 78		
	M M 1 25	
XXXXI 47		
DISPLACED		
EXCAVATED SKID TRAIL		
SMZ/ROCK		
COMMENIS (Include soil, geolog	y, organic debris-large & small, erosion, ro	ad drainage, other pertinent info)
station along solo	a Formation, LT 324	e. Several scattered, small
Upper endlof Secon		silo durit por la location
Alising drow, w/	no place to drain water	a second production of the second of the sec
are mostly down	fatreight across she	
Does not appear op	erator has a good handled	n waterbus and for poor
mochine for the job.		
	an a	
	en fort we de sign de state d'alt de services de services 🖌 😽	
		Θ
SHAPE OF UNIT AND PATTERN C		
SHALL OF ONT AND FATTERING		
		$\mathcal{O} = \mathcal{I}$
		ED
	4811	- Contraction of the Contraction of the Contraction
	Ø	~ > - /
		$\int d\mathbf{r} d\mathbf{r} = \int d\mathbf{r} $
	1/	
	((<	
		154

<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. <u>COMPACTION (Light)</u> - Any other area not included in heavy COMPACTION or UNDISTURBED. <u>UNDISTURBED</u> - No signs of any machinery or skidding acitvity.

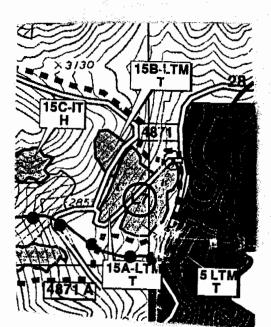
DISPLACED - Any place soil has been mounded by machinery, also include in heavy or light compaction. SMZ/ROCK/BUBN PILE - Include within transect if within harvest unit

07/02

1000

Mall Same in the

	Transect	1	Transec	t 2	Transe	ct 3	Transec	t 4	Transec		TOT	
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
D HEAVY	7	4	5	4							12	4
s LIGHT t	80	50	68	57							148	53
u UNDISTURB r	75	46	47	39		· · · · · · · · · · · · · · · · · · ·					122	<u>43</u>
b PAST ACTIVITY												
TOTALS	162	10-0	120	100							282	100
DISPLACED	3	2	0	0	en e			· · · · · ·			3	1
EROSION										- 1		
PUDDLED												
SMZ												
ROCK	5	3	1	0						25 - 5	6	2
BURN PILES												
				l	<u> </u>	J				N		1



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n An Antonio
e generalise

06/18/2002	
Fortine - Roberts Mnt	
Unit 6	
32204093	

SZ204045 KOOTENAI NATIONAL FOREST SOIL DISTURBANCE DATA FORM

DATE June 18, 2402	CUTTING METHOD Clipper
OBSERVER Kummen / Gett	SKIDDING METHOD RTS
DISTRICT Fortine	HAZARD TREATMENT WTY - burn landings
SALERobert Mut Unit No. 6 13A.	SILVICULTURAL TREATMENT Improvements SD-LP-D
H.T 250 As - NE	OPERATION PERIOD Summer 00
Elc - 3200 COMPACTION(Heavy)	Walk-Through
COMPACTION(Light)	
UNDISTURBED	
DISPLACED	
EXCAVATED SKID TRAIL	
SMZ	
COMMENTS gentle stopes	
SHAPE OF UNIT AND PATTERN OF TRA	ANSECT

<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. <u>COMPACTION(Light)</u> - 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.

06/18/2002 32204214 Fortine - Roberts Mountain Unit 7 32204094 KOOTENAI NATIONAL FOREST SOIL DISTURBANCE DATA FORM CUTTING METHOD_ DATE <u>2002</u> Cleaner 5 SKIDDING METHOD OBSERVER Y - burning Landengs DISTRICT HAZARD ABATEMENT WSD-1 SALEKoberts Mut SILVICULTURAL Amprovene Unit : 00 OPERATION PERIOD Sum As-Sw HT-312 E1-3400 Stope 15-25 COMPACTION(Heavy) COMPACTION (Light) UNDISTURBED DISPLACED EXCAVATED SKID TRAIL SMZ/ROCK COMMENTS Parto e la m

Shape of Unit and Pattern of Transect

	06/18/2002 Fortine - Roberts Mountain Unit 8 32204095	SXXXYXX KOOTENAI NATIONAL FOREST SOIL DISTURBANCE DATA FORM	
F	DATE <u>unit 18, 200</u> OBSERVER <u>Kuennen/(00</u> DISTRICT <u>FORTINE</u> SALE <u>Roberts Mauntau</u> Unit No. <u>A</u> T-312, Slope-5-10%, Ele COMPACTION(Heavy)	33A OPERATION PERIOD Sugar '98	?- D
1	COMPACTION(Light)		
	UNDISTURBED		
	DISPLACED		
ļ	EXCAVATED SKID TRAIL		
	SMZ		
	comments <u>cattle use</u>	seen along shidtrails in the form	
Ì			

SHAPE OF UNIT AND PATTERN OF TRANSECT

<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. <u>COMPACTION(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.

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

	NATIONAL FOREST URBANCE DATA FORM
DATE May 15, 2002 OBSERVER Ruennen	CUTTING METHOD <u>clipper</u> SKIDDING METHOD <u><u><u>K</u></u></u>
DISTRICT Fortine SALE West Sunday Unit No. 34 3/ Acres SAF/Mefe	HAZARD TREATMENT <u>meburn</u> SILVICULTURAL TREATMENT <u>LTM</u> OPERATION PERIOD <u>winter</u>
COMPACTION(Heavy)	Walk through
COMPACTION(Light)	
DISPLACED EXCAVATED SKID TRAIL	
SMZ	
Part of reducetation reve	

SHAPE OF ONIT AND PATTERN OF TRANSECT

<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.

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

SMZ - include within transect if within harvest unit.

05/15/2002 Fortine - Murphy Unit 6 32701052	KOOTENAI NATIONAL FOREST SOIL DISTURBANCE DATA FORM 32701052
DATE May 15, 2002	CUTTING METHOD
OBSERVER Kuennen	SKIDDING METHOD
DISTRICT Fortine	HAZARD TREATMENT understory burn spring '01
SALE Murphy	SILVICULTURAL TREATMENTSkelterwood) SW Seed
DF	OPERATION PERIOD winter '98
H.T291 Slope-25-40% COMPACTION(Heavy)	Acres OPERATION PERIOD winter '98 Ele - 3900 Az-SW Walk-Through
COMPACTION(Light)	
UNDISTURBED	
DISPLACED	
EXCAVATED SKID TRAIL	
SMZ	
COMMENTS <u>Planted</u> to t Scorification	p There was some secondary
	· · · · · · · · · · · · · · · · · · ·
SHAPE OF UNIT AND PATTERN OF	TRANSECT

<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.

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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.

4460132414602217 44601324/44602217 KOOTENAI NATIONAL FOREST 05/29/2002 SOIL DISTURBANCE DATA FORM Three Rivers - Callahan Unit 29D DATE 5/29 12002 CUTTING METHOD An SKIDDING METHOD OBSERVER DISTRICT HAZARD TREATMENT / men spren nn (10 + 11)SALE SILVICULTURAL TREATMENT 4 SW seed res Unit 10 OPERATION PERIOD Summer iv_L 3200 - 3400 22 un Walk-Throu NE COMPACTION (Heavy COMPACTION(Light) UNDISTURBED DISPLACED EXCAVATED SKID TRAIL SMZ COMMENTS nter Glacial mar to render SHAFE OF UNLY 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

05/29/2002 42705103/4270211 Three Rivers - Fowler Thinning Restock #1 SOIL DIST Unit 4 & 15		
DATE 5/29/2002	CUTTING METHOD	
OBSERVER Kuennen	SKIDDING METHOD	
DISTRICT Three Kiven	HAZARD TREATMENT	····,
SALE Forder Thinning restoch #1 Unit No 19 Acres	SILVICULTURAL TREATMENT	
	OPERATION PERIOD	
WRC/Clup (4415) Warrent 4100 ele- COMPACTION(Heavy)	Walk - Through	
COMPACTION(Light)		
UNDISTURBED		
DISPLACED		
EXCAVATED SKID TRAIL	······································	
SMZ		
Part of a representation Fart of a representation Planted WL (40) DF(40) Grasses responding after SHAPE OF UNIT AND PATTERN OF TRANSECT Rd 6065	s ago 1979; 2000 Fowler H leg some of the riggen. ally this red in 1999. accured following the 19 isted. + PP (20) 2 fire - 12" scalps. Nerrow	<u>79 Logging</u>
<u>COMPACTION(Heavy)</u> - any place where its impacted, i.e., skid trails (both heav compaction related to soil moisture), <u>COMPACTION(Light)</u> - any other area not <u>UNDISTURBED</u> - no signs of any machiner <u>DISPLACED</u> - any place soil has been mo light compaction.	vily and lightly used depending on landings, and other impacted areas included in heavy COMPACTION or U by or skidding activity. Sounded by machinery, also include i	amount of JNDISTURBED. In heavy or
SMZ - include within transect if withi	n harvest unit.	5/93

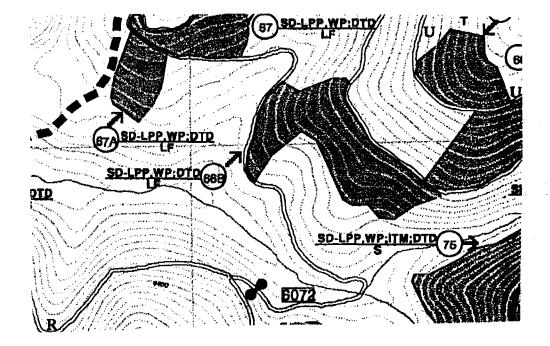
05/29/2002 504132 12504136 1250511500 Three Rivers - Fish Fry Fire Salvage ROOTENAI NATIONAL FOREST (36A) SOIL DISTURBANCE DATA FORM Unit 66B 42504132 (30A) / 42504136 (36A) / 42505115 (16) 29 CUTTING METHOD linne DATE 5 20 SKIDDING METHOD OBSERVER DISTRICT HAZARD TREATMENT < attered Grande Dillo one Senetetion Sel. resalvace SALE 1/2 SILVICULTURAL TREATMENT 82 Acres Únit No. OPERATION PERIOD unn WH/Clun N+waspecto 4200 - 4400 ele. 30-4570 slope all-thro COMPACTION (Heavy) COMPACTION(Light) UNDISTURBED DISPLACED EXCAVATED SKID TRAIL SMZ COMMENTS The Ven few she 1.2 Man m nner El tinn SHAPE PATTERN OF TRANSECT OF IT AND

<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.

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

SMZ - include within transect if within harvest unit.



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112504134 07/31/2002 Three Rivers - Wood Rat KOOTENAI NATIONAL FOREST Unit 26A, 26B 42304154 SOIL DISTURBANCE DATA FORM CUTTING METHOD Nipper-Southerd 5 DATE SKIDDING METHOD K OBSERVER HAZARD TREATMENT IN CH DISTRICT SALE SILVICULTURAL TREATMENT Acres 2000 OPERATION PERIOD VAN WH/Clun 450-3650 Walk-throug 55 W COMPACTION (Heavy) COMPACTION(Light) UNDISTURBED DISPLACED EXCAVATED SKID TRAIL SMZ 12m COMMENTS n an. more CAN scent water Stand sora Krom Salt 1 a casa Good have been material coned met good ΒM UNIT AND PATTERN OF TRANSECT SHAPE OF RJ 3824 COMPACTION(Heavy) ¹ 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>COMPACTION(Light)</u> - any other area not included in heavy COMPACTION or UNDISTURBED. <u>UNDISTURBED</u> - 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

41702103 41901137 41703133 88-4 $\hat{O}U$ - The second Parameters $\hat{O}U$ 08/06/2002 **KOOTENAI NATIONAL FOREST** Three Rivers - Garver Proposal SOIL DISTURBANCE MONITORING FORM Unit 31, 33, 50 2002 DATE CUTTING METHOD Newga SKODING METHOD OBSERVER > If tractor: DISTRICT dispersed dedicated 1122 Rubers SALE/S.A. Garver Frazier HAZARD TREATMENT SILVICULTURAL TRMT Unit # Acres H.T. OPERATION PERIOD Slope Aspect I Elevation | Location DISTURBANCE(Heavy PAST ACTIVITY DISTURBANCE (Light) UNDISTURBED DISPLACED **EXCAVATED SKID TRAIL** SMZ/ROCK COMMENTS (Include soil, geology, organic debris-large & small, erosion, road drainage, other pertinent info) Some excavated trails exist throughout; estimat detribuental Sisturbance present. - nge hawkweld also not calling to whet. previous activity. H.T. - WH/Clun. Unit selle de opping off to wetter Hu mall sites. Volcanic cont to 1k Rd 5892. averland sky Itill concep. Knonweek scatterin an and il trac SHAPE OF UNIT AND PATTERN OF TRANSECT Unit 31 = H.T. - DF/Libo - 5/Libo. Reuse old trails as much as possible. Provide some drainage in several places an access road. Spray orange hawhweed on access road prior to use. "Darres; Easpect; intermediate harvest; planned winter tractor ut 33 · H.T. - WH/Chun, Recommend winter operation. H.T. indicates That soils will not meet 18% moisture. Ask w/o rock easily disturbed. 20 acres; 5 aspect; regeneration harvest; planned tractor. Init 50 . H.T. - DF/Ann - DF/Syal. Reuse old trails. Spray area prior to operation. Bacres; & aspect; intermediate howest; planned tractor COMPACTION (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. DISPLACED - 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.

07/02

	Transect 1		Transec	t 2	Transect	3	Transect	4	Transect		TO	
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
D HEAVY												
s LIGHT												
b PAST ACTIVITY												
TOTALS								_				
DISPLACED												
EROSION												
PUDDLED												
SMZ												
ROCK												
BURN PILES										_		

46-41703151 46-41703151 47-4/ 208/5/ 47-41703151 08/06/2002 **KOOTENAI NATIONAL FOREST** Three Rivers - Garver Proposal SOIL DISTURBANCE MONITORING FORM Unit 46 & 47 496,2002 DATE CUTTING METHOD **OBSERVER** ednen //Vewgard SKIDDING METHOD DISTRICT If tractor: dedicated dispersed three Kiver SALE/S.A. Garver pro esca HAZARD TREATMENT Unit #46447 Acres SILVICULTURAL TRMT DFTCarw H.T. OPERATION PERIOD Slope Aspect | Location Elevation | **DISTURBANCE(Heavy** PAST ACTIVITY **DISTURBANCE** (Light) UNDISTURBED DISPLACED EXCAVATED SKID TRAIL SMZ/ROCK COMMENTS (Include soil, geology, organic debris-large & small, erosion, road drainage, other pertinent info) sared unit each had 1- Zacres on the west tea species. £ sees were u 1 7 in manent and lan SHAPE OF UNIT AND PATTERN OF TRANSECT nit 46 : 23 annes; SE aspect; intermediate harvest; planned tractor. 41703151 Unit 47: Harney SE aspect; intermediate harvest; planned tractor, 41703151 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 acitvity. DISPLACED - 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.

07/02

	Transect 1		Transect	2	Transect	3	Transec	:t 4	Transec		TO	
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
HEAVY												
LIGHT												
ACTIVITY									_			
TOTALS												
DISPLACED												
EROSION												
PUDDLED								ANUN Der a				
SMZ												
ROCK												
BURN PILES												

09/23/2002 Three Rivers - Garver Proposal

KOOTENAI NATIONAL FOREST SOIL DISTURBANCE MONITORING FORM

SERVER Kuennen Newgard	CUTTING METHOD SKIDDING METHOD If tractor:	dispersed	dedicated
SALE/S.A. Conver Proposal 1			
	SILVICULTURAL TRMT		
Н.Т.	OPERATION PERIOD		
Slope	Aspect		
Location	Elevation	· · · · ·	
COMPACTION (Heavy)			
COMPACTION (Light)		· · · · · · · · · · · · · · · · · · ·	
UNDISTURBED			
DISPLACED			
EXCAVATED SKID TRAIL			<u> </u>
SMZ/ROCK	·····		
COMMENTS (Include soil, geology, organic d	ebris, other pertinent info	<u></u>	,
Fill to an to prover and prove	enal Gas and 1	mit evisite	limita 18.19.23.25.
ane of the units have a	reminuslight	en enteres	
of Majscussion was as	sociated w/ U	Last 34. 44	e unitis generally
isla llot but contains a	terrace-elge	like leater	re that well make
accede somewhat diffici	elt from the	existing no	al the H. T. is WH
lun w/ occasional /wet	allase the se	ail had 8-1	4" of valcenic ash
vera grovelly subsoil. T	y site has gg	ordorgani	gamet - Hagard
balement could be a prob	Carmo The full	leef and	wet habitat type
full clean to significant	allamenca 3	ou destun	ance /
SHAPE OF UNIT AND PATTERN OF TRANSE			
185: 15 acres; 42201111; San	spect; regen;	planned &	teli,
	1 1 1		
Q			
12: 10 aner 4220/118; 5a		A. it hered	
	exect; interme	diate purve	t; planned /teli.
	exect; interme	diate huve	t; planned /teli.
23: 52 acres; 42201112/422	exect; interme	diato herve	t; planned /teli.
23: 52 acres; 42201112/422 planned chuline	exect; interme	diato herve	t; planned /teli.
23: 52 acres; 42201112/422 planned shyline	exect; interme	diato herve t; interment ediatoharre	t; planned /teli.
23: 52 acres; 42201112/422 planned shyline 25: 13 acres; 42201115; 5 4	exect; interme	diate huve t; intermed ediateherre	t; planned /teli.
23: 52 acres; 42201112/422 planned shyline 25: 13 acres; 42201115; 5 4	epect; enterne 201110; 5 aspec aspect; interne	t; inclument ediatoharve	t; planned /teli, listeharvest; at; planned tracto
23: 52 acres; 42201112/422 planned shyline 25: 13 acres; 42201115; 5 a 24: 50 acres; 41901161; NE	epect; enterne 201110; 5 aspec aspect; enterne aspect; enterne	t; incline edistoherre medistoherr	t; planned /teli. liste harvest; at; planned tracto rest; planned heli
23: 52 acres; 42201112/422 planned shyline 25: 13 acres; 42201115; 5 a 24: 50 acres; 41901161; NE	epect; enterne 201110; 5 aspec aspect; enterne aspect; enterne	t; incline edistoherre medistoherr	t; planned /teli. liste harvest; at; planned tracto rest; planned heli
23: 52 acres; 42201112/422 planned shyline 25: 13 acres; 42201115; 5 4	spect; enterne 201110; 5 aspec 201110; 5 aspec	t; incliment edistoharre medistoherr listeharves	t; planned /teli. liteharvest; at; planned tracto rest; planned heli t; planned tractor
23: 52 acres; 42201112/422 planned shyline 25: 13 acres; 42201115; 5 a 4: 50 acres; 41901161; NE (129 acres; 41901158; NE a <u>MPACTION (Heavy)</u> - Any place where future neavily and lightly used depending on amount of	expect; interne 201110; 5 aspec aspect; interne aspect; interne expect; internes evegetative growth will to compaction related to s	t; inclument ediatoharre mediatoherre diatoherres be significantly impa oil moisture), landin	t; planned /teli, liste harvest; at; planned tractor vest; planned heli t; planned fractor cted, i.e., skid trails (both gs, and other impacted areas.
23: 52 acres; 42201112/422 planned shyline 25: 13 acres; 42201115; 5 a 4: 50 acres; 41901161; NE 129 acres; 41901158; NE a <u>MPACTION (Heavy)</u> - Any place where future heavily and lightly used depending on amount of <u>COMPACTION (Light)</u> - Any other area not inclu	expect; interne 201110; 5 aspec aspect; interne aspect; interne expect; interne evegetative growth will b compaction related to so ded in heavy COMPACT	t; inclument ediatoharre mediatoherre diatoherres be significantly impa oil moisture), landin	t; planned /teli, liste harvest; at; planned tractor vest; planned heli t; planned fractor cted, i.e., skid trails (both gs, and other impacted areas.
23: 52 acres; 42201112/422 planned shyline 25: 13 acres; 42201115; 5 a 24: 50 acres; 41901161; NE -: 129 acres; 41901158; NE a	expect; enterne 201110; 5 aspec aspect; enterne aspect; interne exect; interned compaction related to s ded in heavy COMPACT skidding acitvity.	t; inclument edistoherne medistoherne diste herves pe significantly impa oil moisture), landin TON or UNDISTUR	et; planned /teli, liteharvest; at; planned tractor vest; planned heli t; planned tractor cted, i.e., skid trails (both gs, and other impacted areas. BED.

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	Transect	1	Transec	t 2	Transec	t 3	Transe	ct 4	Transec		TOT	
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
D HEAVY i												
s LIGHT												
u UNDISTURB												
b TOTALS												
				<u>.</u>	<u> </u>							
DISPLACED												
EROSION												
PUDDLED									_	•	,	
SMZ												
ROCK								<u> </u>	-			
BURN PILES												

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05/23/2002 73102045 KOOTENAI NATIONAL FOREST Cabinet - Burnt Lion Unit 16A SOIL DISTURBANCE DATA FORM 73102045 DATE MAN 23 2002 CUTTING METHOD SKIDDING METHOD mined cable + tractor OBSERVER DISTRICT ('n) HAZARD TREATMENT R Spring 200 SALE /Sun SILVICULTURAL TREATMENT 3 Tacres OPERATION PERIOD 1Aug 00 Walk through COMPACTION(Heavy) COMPACTION(Light) UNDISTURBED DISPLACED EXCAVATED SKID TRAIL SMZ COMMENTS Ind 1A ISTAA Φ SHAPE OF UNIT AND PATTERN OF TRANSECT COMPACTION(Heavy) - any place where future vegetative growth will 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.

05/23/2002 Cabinet - Smeads Rice Unit 6A 71301006	COLO KOOTENAI NATIONAL FOREST SOIL DISTURBANCE DATA FORM
DATE May 23, 2002	CUTTING METHOD / Mad
OBSERVER Kuennen	SKIDDING METHOD Tractor
DISTRICT Cabenit	HAZARD TREATMENT Excavator pile w/sealp
SALE <u>Smeads Rice</u> Unit No. <u>BA</u>	SILVICULTURAL TREATMENT Seeffree W/ reserver
wH/Clun	33 Acres OPERATION PERIOD Winter logged Jan 'DO
COMPACTION(Heavy)	Walk-through
COMPACTION(Light)	
UNDISTURBED	
DISPLACED	
EXCAVATED SKID TRAIL	
SMZ	
COMMENTS planted WP Fair number of no	+ Which is a root not in howested stand
plantingen stone	areas (
Part of reforestar	tion revenue
SHAPE OF UNIT AND PATTERN OF	F TRANSECT

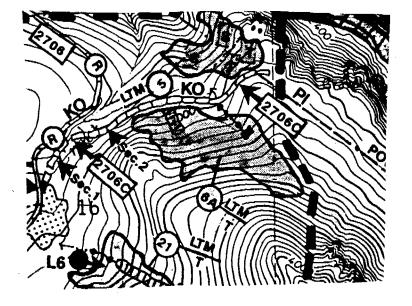
<u>COMPACTION(Heavy)</u> - any place where future vegetative growth will be significantly impacted, i.e., skid trails (both heavily and lightly used depending on amount of compaction related to soil moisture), landings, and other impacted areas. <u>COMPACTION(Light)</u> - any other area not included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

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SMZ - include within transect if within harvest unit.

5/93



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08/08/2001 Cabinet - Burnt Lion	·	Jour 7.
Unit 2A 73101003	73101003 KOOTENAI NATIONAL F	
	SOIL DISTURBANCE MONITO	
TE 8/801 DISTRICT SALE/S.A. Eventer Unit # 20 A Acres H.T. Hogr-/Cluy Slope Broken C Location Lower COMPACTION (Heavy) N	If tractor: HAZARD TREATMENT 38 SILVICULTURAL TRM	Jan-Feb '00
EXCAVATED SKID TRAIL	· · · · · · · · · · · · · · · · · · ·	
SMZ/ROCK		
COMMENTS (Include soil, ge Start N 47° 42 ,335 W 115° 33 ,7 95	ology, organic debris, other pertinent in 4/230 ≤łu∔ N 4 W 1	nfo) 7* 42. 333 15* 33. 454
STOP N 47.389 W 115 33.687	5.105	
Pass	forss 2	
Pro-		
SHAPE OF UNIT AND PATTER		
Trail Put to Bed - NN I	TH II O	
neavily and lightly used dependi	lace where future vegetative growth will ing on amount of compaction related to her area not included in heavy COMPA	I be significantly impacted, i.e., skid trails (both soil moisture), landings, and other impacted areas. CTION or UNDISTURBED.
<u>JNDISTURBED</u> - No signs of al <u>DISPLACED</u> - Any place soil ha	ny machinery or skidding acitvity. as been mounded by machinery, also in within baryest unit	

harves

S		Transect	t 1	Transec	t 2	Transed	ct 3	Transe	ct 4	Transec		Тот	ALS
		Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
	HEAVY	16	5	9	4	20	9				L	35	5
	s LIGHT	167	54	112	51	95	45					374	51
	u UNDISTURB r	127	41	99	45	98	46					324	44
	b TOTALS	310	100	220	100	213	100					733	100
-					- <u>-</u>								
		11	3,5	4	2	0	0					15	2
Teai	I put to bed	5	1.5	7	3	0	0					12	2
	PUDDLED												
	SMZ		 										
	ROCK												
	BURN PILES												
5													

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08/07/2001 73101004/73101007 Cabinet - Burnt Lion **KOOTENAI NATIONAL FOREST.** Unit 22 SOIL DISTURBANCE MONITORING FORM 73101004/73101007 Timeo Я DATE **CUTTING METHOD** SKIDDING METHOD OBSERVER dedicated DISTRICT If tractor: dispersed whole the yeard SALE/S.A. Burntl Deve Chy HAZARD TREATMENT silas. sheltenood Unit # 22 SILVICULTURAL TRMT 68 Acres OPERATION PERIOD H.T. 1999 Aug Aspect N 4 E Slope Elevation | 42.50 -4500 Location THI THE THI COMPACTION (Heavy 141 TH COMPACTION (Light) TH TH THU - LR HU N -174 1HJ INU TH THE INLINE THE THE NUT HE THE IN IN THE THE INCIDE NO THE THE THE INTERNATION THE THE THE 101 5, 57 UNDISTURBED NV INU NU N.I 1NI INI 11/1 iN IH NW THE FIN THE AND AND THE IN THE AND THE INE THE THE THE THE THE HI IN THE THE THE THE THE THE THE DISPLACED TNJ M ÌĎ **EXCAVATED SKID TRAIL** SMZ/ROCK COMMENTS (Include soil, geology, organic debris, other pertinent info) excanator piled + scarified. Some rich part borning Unper hils 1000 SHAPE OF UNIT AND PATTERN OF TRANSECT

<u>COMPACTION (Heavy)</u> - Any place where future vegetative growth will be significantly impacted, i.e., skid trails (both eavily 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. <u>UNDISTURBED</u> - 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.

. 1	Transect	1	Transec	t 2	Transed	ct 3	Transe	ct 4	Transec		TOT	111 March 11
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
D HEAVY i	45	10	49	12	41	6	51	8	47	10	233	9
s LIGHT t	204	43	190	47	298	47	330	49	236	50	1258	47
u UNDISTURB r	221	47	168	41	394	47	290	43	192	40	1165	44
b TOTALS	470	100	407	160	633	100	671	100	475	100	2656	100
DISPLACED	10	2	17	4	9	<u> </u>	20	3	22	5	78	3
EROSION										-		
PUDDLED											-	
SMZ												
ROCK												
BURN PILES	0	0	0	ð	18	3	4		14	3	36	1

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Unit 22	. ·		NAI NATIONAL FO		a an ann an a
DATE	8/7/01	CUTT	ING METHOD		
OBSERVER		SKIDI	DING METHOD		
DISTRICT		lf tr	actor:	dispersed	dedicated
SALE/S.A.			RD TREATMENT		
	2 Acres		CULTURAL TRMT		
H.T			RATION PERIOD		······
Slope _			pect <u>n</u>		
Location			evation		· · · · · · · · · · · · · · · · · · ·
COMPACTIC	N (Heavy)	UN UNI UNI UNI	H THI THE THE W	411 - 49	
	HIT IN THE		AT UNIT UNIT UNIT UNIT UNIT UNIT UNIT	11 -190	NU IN INI INI NU INI
IN IN IN DISPLACED EXCAVATED SMZ/ROCK	THI THI THI THI	17 	· · · · · · · · · · · · · · · · · · ·		
IN IN IN DISPLACED EXCAVATED SMZ/ROCK		17 			
IN IN IN DISPLACED EXCAVATED SMZ/ROCK	THI THI THI THI	17 			
IN IN IN DISPLACED EXCAVATED SMZ/ROCK	THI THI THI THI	17 			
IN IN IN DISPLACED EXCAVATED SMZ/ROCK	THI THI THI THI	17 			
IN IN IN DISPLACED EXCAVATED SMZ/ROCK	THI THI THI THI	17 			
IN IN IN DISPLACED EXCAVATED SMZ/ROCK	THI THI THI THI	17 			
IN IN IN DISPLACED EXCAVATED SMZ/ROCK	THI THI THI THI	17 			
IN IN IN DISPLACED EXCAVATED SMZ/ROCK	THI THI THI THI	17 			

SHAPE OF UNIT AND PATTERN OF TRANSECT

COMPACTION (Heavy) - Any place where future vegetative growth will be significantly impacted, i.e., skid trails (both eavily and lightly used depending on amount of compaction related to soil moisture), landings, and other impacted areas. OMPACTION (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. SMZ - Include within transect if within harvest unit. 10/99

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4 KOOTENAI NATIONAL FOREST SOIL DISTURBANCE MONITORING FORM

Passi 3	DATE 8/1/01 CUTTING METHOD OBSERVER SKIDDING METHOD dispersed DISTRICT If tractor: dispersed SALE/S.A. HAZARD TREATMENT Unit # 22 Acres SILVICULTURAL TRMT OPERATION PERIOD Slope Aspect I Location Elevation I COMPACTION (Heavy) M/M/M/M/M/M/M/M/M/M/M/M/M/M/M/M/M/M/M/
n n n Line Line Line	COMPACTION (Light) IN
j	EXCAVATED SKID TRAIL
	SHAPE OF UNIT AND PATTERN OF TRANSECT

COMPACTION (Heavy) - Any place where future vegetative growth will be significantly impacted, i.e., skid trails (both eavily and lightly used depending on amount of compaction related to soil moisture), landings, and other impacted areas. OMPACTION (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. SMZ - Include within transect if within harvest unit.

10/99

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5	DATE <u>8/7/01</u> OBSERVER DISTRICT SALE/S.A. Unit # <u>22</u> Acres H.T. Slope Location		CUTTING METHOD SKIDDING METHOD If tractor: HAZARD TREATMENT SILVICULTURAL TRMT OPERATION PERIOD Aspect I Elevation I	dispersed	dedicated
1	COMPACTION (Fleavy)	THUR	144 MA IN MITHI	HAN 51	
	COMPACTION (Light)				
	SMZ/ROCK III 4				
	COMMENTS (Include soil, geo	logy, organic	debris, other pertinent info		
-	Start N 47 42.680 W 115° 35.525	4385	NW pa	to pile + s	alpent.
	Step N 47° 42.920 W 115° 35.912	4457			
-					
_					
Ī	SHAPE OF UNIT AND PATTERN	OF TRANS	ECT		

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COMPACTION (Heavy) - Any place where future vegetative growth will be significantly impacted, i.e., skid trails (both beavily 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. <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. SMZ - Include within transect if within harvest unit.

10/99

KOOTENAI NATIONAL FOREST SOIL DISTURBANCE MONITORING FORM

			The second process of the second s		·
0~	DATE OBSERVER	8/1/01	CUTTING METHOD	<u> </u>	
	DISTRICT	<u></u>	If tractor:	dispersed	dedicated
1	SALE/S.A.		HAZARD TREATMENT		
	Unit #	Acres 168	SILVICULTURAL TRMT		
	Н.Т.		OPERATION PERIOD	· · · · · · · · · · · · · · · · · · ·	····
5	Slope		Aspect		
.5	Location		Elevation	······	· · · · · · · · · · · · · · · · · · ·
X°'		(Heavy) NITH	THE THE ALL THE NUT THE THE	1 47	
		· · · · · · · · · · · · · · · · · · ·	- 110 1.00 1.00 1.00 - 1.00 - 1.00 1.000	- F F	
	COMPACTION	I (Light)	THIN THIN THIN THIN TH	IN THINK NO	NIN NUX NU
	XX HU NI	N HA IN THE THE T	W NU NH X NV XXIN	I XX NI INI	236
	UNDISTURBEI	P V THU THU	THIS THIS THIS	NJ TAN THU MULT	RY NKI NUT TAK HKI
	X THI M	N THI HIL THE THE THE	THE WE HAVE NOT THE MALTI	192	
19 1177 E	DISPLACED	DA THINKI MI	22	ź	
	EXCAVATED S				
•	SMZ/ROCK	N $[N]$ $[N]$ $[14]$			
	Bowlin				
	COMMENTS	(Include soil, geology,	organic debris, other pertinent info)	
	Start N	47° 42. 912		·//	
	W_	115°35, 768	6	14 Shalter to	od.
		-	8	4 Huming	
	Crossed 4	emp road @ S	tart of transect		
			, , , , , , , , , , , , , , , , , , , ,	·	
	Stop N47	42,730	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·
-	W IIS	5° 35.460	4402		
-			·		
-					
· -					
_					
	SHAPE OF UNI	TAND PATTERN OF	TRANSECT		
			······································		-

<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. <u>COMPACTION (Light)</u> - Any other area not included in heavy COMPACTION or UNDISTURBED. <u>UNDISTURBED</u> - 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>DISPLACED</u> - Any place soil has been mounded by machinery, also include in neavy of light compace <u>SMZ</u> - Include within transect if within harvest unit.

08/08/2001 73001001 Cabinet - Burnt Lion KOOTENAL NATIONAL FOREST Unit 27A KOOTENAL NATIONAL FOREST 73001001 SOIL DISTURBANCE MONITORING FORM
TE 8/8/01 CUTTING METHOD SERVER Kuennen/Cistillo SKIDDING METHOD Tractor DISTRICT Cabinet If tractor: dispersed dedicated SALE/S.A. Burat Icon HAZARD TREATMENT BB-w/ ellented fireline Unit # 27.4 Acres 7.8 H.T. 530 OPERATION PERIOD Stope Slope US-50 Aspect I E Location Divic Peak mid 6*2 Elevation I 4000 - 4100 V NI NI NI 7
COMPACTION (Light) NIN THE
UNDISTURBED IN NUM IN NUM IN NUM IN NUM IN NUM IN NUM
DISPLACED IN INI INI I INI INI I
Recon, Kan
COMMENTS (Include soil, geology, organic debris, other pertinent info)Start N 47^{\prime} 39.963 $54art$ N 47° 39.779 4380 W 115° 40.205 W 115° 40.385
N 47° 39,694 W 115° 40.284 W 115° 40.284 W 115° 40.384
SHAPE OF UNIT AND PATTERN OF TRANSECT
- Old executed skill trail - MH IIII IMI
<u>APACTION (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. <u>UNDISTURBED</u> - 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. 10/99

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		1										
	Transect	1	Transec	t 2	Transec		Transec		Transec		TOT	
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
D HEAVY	14	B	11	7	39	7	25	6			89	7
s LIGHT t	71	42	66	44	199	36	191	43			527	40
u UNDISTURB r	85	50	13	49	321	57	222	51		<u> </u>	701	53
b TOTALS	170	100	150	100	559	100	438	100			1317	100
											-	
DISPLACED	Z1	12	11	7	15	3	9	2			56	4
EROSION c contoured Rd.	11	6	12	8	20	3.5	10	2			53	4
PUDDLED												
SMZ												
ROCK											·	
BURN PILES												
					<u> </u>		· · · · · · · · · · · · · · · · · · ·					

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			2 _.			
BSERVER		NG METHOD	dispers	ed	dedic	ated
SALE/S.A.				·		
Unit # Acres H.T.		CULTURAL TRM ATION PERIOD				
Slope		pect	·			
Location	Ele	vation	•		11	
COMPACTION (Heavy)	IN IN IN			1 MI MID	N	
· · · · · · · · · · · · · · · · · · ·						<u></u>
COMPACTION (Light) IN TH	THE HE IN	玉 / / / /	NY //		<u>n / htt /</u>	
1) THE I THE I THE IT		I /////	H71/1	NI ////		
UNDISTURBED 111 MUNN	THI THINK IN	TNINT	1111	11111	11/18	MANN
111 MY 11 MU 151 MU	111111	11/1/1/1	1 M	V NV		inni T
THE INTERNAL	JUILIN WY		11 11			
DISPLACED	111	· · · ·				
EXCAVATED SKID TRAIL	· · · · · · · · · · · · · · · · · · ·				· · · ·	<u> </u>
						<u></u>
SMZ/ROCK IN IN IN IN I	THE THI					
econ. Zood			·····			
COMMENTS (Include soil, geology			nfo)	Th AUD	11760	en en ser en La constante de la constante de
Start - N 47° 39.676	4550	Start	<u>N 47</u>	<u>40.045</u> 40.417	4350	<u> </u>
W 115° 40.512	······································		<u> </u>	40.711	······	
Stop N 47º 39.990	4500	Stop	N 47°	39.874	4240	
W 115° 40. 468 _	· · · · · · · · · · · · · · · · · · ·		W 115"	40.337		
						· .
P054 3			Pass 4			
				·····		
			· · · ·			

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

SMZ - Include within transect if within harvest unit.

10/99

· · • •	Transect	ansect 1 Transect 2 Transect 3				Transe	rt 4	Transec	5	TOTALS		
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
HEAVY												
s LIGHT	•	, <u>, ,</u>										
u UNDISTURB												
b TOTALS											 	
DISPLACED						. <u> </u>				v		
EROSION								, 4441			· · · ·	
PUDDLED				×								Ī
SMZ										·•2-2		
ROCK				<u>.</u>							·	
BURN PILES				<u></u>					1			

and the second second

09/05/2001 Rexford - Lost Soul Salvage Unit 3 12902108

12902108 KOOTENAI NATIONAL FOREST SOIL DISTURBANCE DATA FORM

<i>p</i>
CUTTING METHOD <u>Clepper</u>
SKIDDING METHOD Tractor
HAZARD TREATMENT <u>BB-Fall 1999;</u>
SILVICULTURAL TREATMENT SD
OPERATION PERIOD winter 98-99
OPERATION PERIOD winter 98-99 Ele: 5000-5300' Aspect: North whi
Walk through
· · · · · · · · · · · · · · · · · · ·
cussion.
nty of CUD subsequent to burn.
Sported both Unit 13+4 losh good
ict BMP review

SHAPE OF UNIT AND PATTERN OF TRANSECT

<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. INDISTURBED - 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.

09/05/2001 Rexford - Lost Soul Salvage Unit 4 12902107

12902107 KOOTENAI NATIONAL FOREST SOIL DISTURBANCE DATA FORM

CUTTING METHOD CLIPPEN
OBSERVER Kuennen SKIDDING METHOD Tractor
DISTRICT <u>Kelford</u> HAZARD TREATMENT <u>BB-Fall 2000</u>
SALE LOST_Soul_Salvage SILVICULTURAL TREATMENT_SD
Unit No. $4 - 55H$
H.T: SAF/Clun/Mefe-SAF/Luki OPERATION PERIOD winter 99-00 Ele: 5400-5750 Aspect: North
COMPACTION(Heavy)
COMPACTION(Light)
UNDISTURBED
DISPLACED
EXCAVATED SKID TRAIL
SMZ
COMMENTS Roads used for access 333, 4814, 6245
- Elappers used for surfice trunger to many installed incorrectly.
Some detech scow has accurred. and a very moust-
water eno, during skring runal. Some pines new Cleaning
Older piles have no shew; newth ones do.
See Unit 5 Part of all Dittit & MP and and
Tall of Apple Pistuce Dret review.
SHAPE OF UNIT AND PATTERN OF TRANSECT
Unit 4
CONDACTION (Heaver) and there future wastative smooth will be static
<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.
<u>COMPACTION(Light)</u> - any other area not included in heavy COMPACTION or UNDISTURBED.
UNDISTURBED - no signs of any machinery or skidding activity

<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.

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

10/30/2001 Fortine - Sinclair Salvage 3/6 0 4 0 7 3
Unit 2 31604073 KOOTENAI NATIONAL FOREST SOIL DISTURBANCE MONITORING FORM
TE 10/30/01 CUTTING METHOD Mund SSERVER Kuennen SKIDDING METHOD <u>KTS</u> DISTRICT Fortune If tractor: dispersed dedicated
SALE/S.A. Sinchin Salvage Re-ADHAZARD TREATMENT Unit # 2 Acres 22 SILVICULTURAL TRMT H.T. DF/Libo OPERATION PERIOD
Slope 5-25 Aspect I SLO Location famer Elevation I 3650-3900 COMPACTION (Heavy)
COMPACTION (Light)
DISPLACED
EXCAVATED SKID TRAIL
COMMENTS (Include soil, geology, organic debris, other pertinent info) CWD adiquete, Some wind throw has accurred. Waterbars
in main shid frail just a dequite.
Part of a Kostensi Cat. Ex. Review SHAPE OF UNIT AND PATTERN OF TRANSECT
SHAPE OF ONIT AND PATTERIN OF THANSEOT
·
OMPACTION (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>COMPACTION (Light)</u> - 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. SM2 - Include within transect if within harvest unit. 10/99

	Transec	t 1	Transec	xt 2	Transe	ct 3	Transe	ct 4	Transec	<u>xt 5</u>	TOT	ALS
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
D HEAVY i	-											
s LIGHT t	-											
	3						<u> </u>					
b TOTALS												
DISPLACED												
EROSION												
PUDDLED										-		
SMZ				11. 								
ROCK												
BURN PILES	3											

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10/30/2001 Fortine - Sinclair Salvage	31604074	
Unit 1	KOOTENAI NATIONAL FOREST	
31604074	SOIL DISTURBANCE MONITORING FORM	
E 10/30/01		
SERVER Kuernen	SKIDDING METHOD <u><u><u>R</u>75</u></u>	
SALE/S.A. Surclain Selv	If tractor: dispersed dedicated	
Unit # _ / Acres36	SILVICULTURAL TRMT <u>CT'M</u>	
H.T. Slope 10-20	OPERATION PERIOD Aspect I らい	
Location lower	Elevation 1 3400 - 3900	
COMPACTION (Heavy)		v.,
	Walk Through	
COMPACTION (Light)		
		<u> </u>
DISPLACED		
EXCAVATED SKID TRAIL		
SMZ/ROCK		
COMMENTS (Include soil, geology CWD adequate,	, organic debris, other pertinent info)	
		——
	·	<u> </u>
Part of a Kontensi	Cat. Ex. Review	
SHAPE OF UNIT AND PATTERN OF	TRANSECT	
i		
-		
heavily and lightly used depending on	where future vegetative growth will be significantly impacted, i.e., skid trails (both amount of compaction related to soil moisture), landings, and other impacted area	as.
COMPACTION (Light) - Any other are UNDISTURBED - No signs of any ma	ea not included in heavy COMPACTION or UNDISTURBED.	
DISPLACED - Any place soil has been	n mounded by machinery, also include in heavy or light compaction.	
SMZ - Include within transect if within		99

	Transect 1		ansect 1 Transect 2 T		Transect	3	Transe	ct 4	Transed	ct 5	TOT	ALS
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
D HEAVY												
s LIGHT	·· ·· ··			_								
u UNDISTURB r												
b TOTALS												
DISPLACED												
EROSION												
PUDDLED							_			•	· · ·	
SMZ			<u> </u>									
ROCK	-											
BURN PILES								·				
					<u> </u>			·····				

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10/31/2001 Cabinet - Bull Liber	70702060		
Unit 2	KOOTENAI NATIONAL FOREST		
70702060	SOIL DISTURBANCE MONITORING FO		
TE <u>10/3//0/</u>	CUTTING METHOD	rsed dedicated	
SERVER Kulennen	SKIDDING METHOD	rsed dedicated	
DISTRICT Cobenet So SALE/S.A. Bull Luber =		fall '01	
Unit # 📿 Acres 20			erves
H.T. $GF/Clum \rightarrow DF/$ Slope 5-15	Pluma OPERATION PERIOD 5 Aspect 1 Southing	urnmell'Ol	_
Location lower	Elevation I 2300-	2500	_
COMPACTION (Heavy)	walk- through		
COMPACTION (Light)	/		
UNDISTURBED		· · · · · ·	
DISPLACED			
EXCAVATED SKID TRAIL		· · · ·	
SMZ/ROCK			_
COMMENTS (include soil, geology	, organic debris, other pertinent info)		
Old trail coming	of power line carridor	used for access. Trai	1
mit to bed through	pinit. Decontouring ap	my rough	
Part of a Cat. Ex.	. review for Roatena	,	
· · · · · · · · · · · · · · · · · · ·			
			_
) <u> </u>			
SHAPE OF UNIT AND PATTERN OF	FTRANSECT		
F			
i			

<u>MPACTION (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. <u>COMPACTION (Light)</u> - 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. SMZ - Include within transect if within harvest unit.

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	Transect 1 T		nsect 1 Transect 2		Transed	Transect 3 Transect							
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	
D HEAVY				_		-							
s LIGHT	·												
u UNDISTURB													
b TOTALS													
DISPLACED													
EROSION													
PUDDLED										-	· :·		
SMZ				,-									
ROCK				.,,									
BURN PILES													

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10/31/2001 Cabinet - Bull Liber SSTS Unit 3	70702062		
70702062	KOOTENAI NATIONAL FO		
	SOIL DISTURBANCE MONITOR		
E <u>10/31/01</u>	CUTTING METHOD SKIDDING METHOD	_ cupper	
Chili Li V.	along off tractor:	dispersed dedicated	
SALE/S.A. <u>Bull Liber</u> Unit # 7 Acres 12	HAZARD TREATMENT SILVICULTURAL TRMT	BB fill Of SDIT	
H.T. <u>GF/Chun DF/F</u> Slope <u>5-20</u>	Mind OPERATION PERIOD Aspect Sout	Summer 2001	
Location Tower	Elevation 23QL	-2360	
COMPACTION (Heavy)	e p 1 d ald		
COMPACTION (Light)	Walk-Th	ough	
			``
DISPLACED			
EXCAVATED SKID TRAIL			
SMZ/ROCK			
COMMENTS (Include soil, geology,	organic debris, other pertinent info))	
- Excivator line	put assund unit	. Fine excessive on	streep
tid not reduce for	tage. Unit 55 eas I haverd. From	Soul + Water Stand p	sint uni
John good Suffici	ent CWD,		
Ded trail coming	Mamout of side his	ilon used for acces	s. Trail nelly.
Recontouring ohen	-very sough	/	
Part of a Cat. Ex.	review for Koat.		
SHAPE OF UNIT AND PATTERN OF	TRANSECT		
		· · · · · · · · · · · · · · · · · · ·	
COMPACTION (Heavy) - Any place wheavily and lightly used depending on a COMPACTION (Light) - Any other area	amount of compaction related to s a not included in heavy COMPAC	oil moisture), landings, and other imp	ils (both acted areas.
UNDISTURBED - No signs of any mac DISPLACED - Any place soil has been		ude in heavy or light compaction	

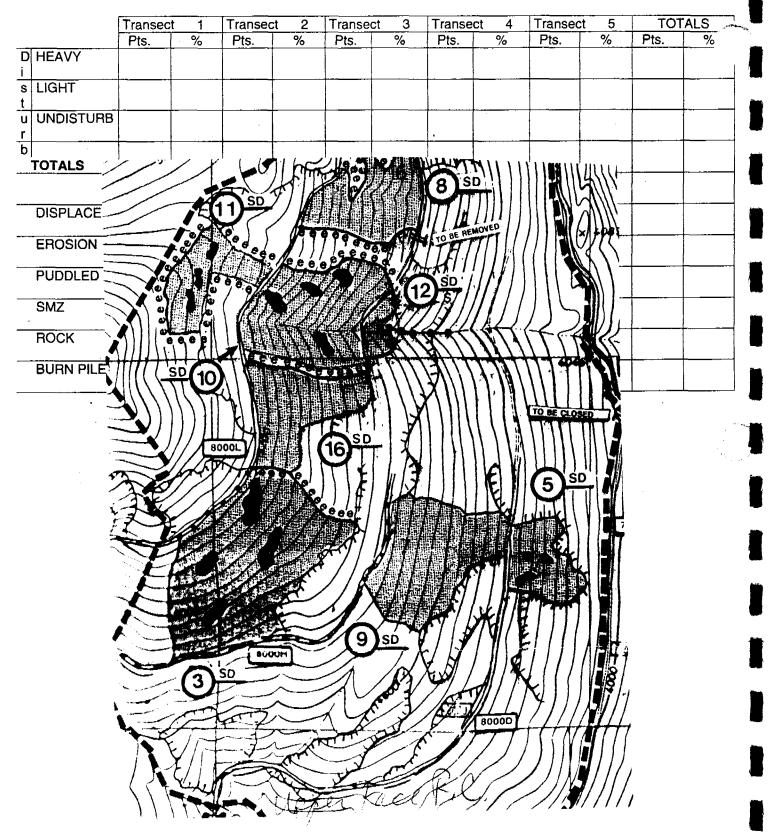
10/99

· _	Transect	1	Transec	t 2	Transec	t 3	Transe	ct 4	Transec		ТОТ	ALS
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
D HEAVY i												
s LIGHT						_						
u UNDISTURB												
b TOTALS												
						··						
DISPLACED												
EROSION												
PUDDLED										**	a na	
SMZ												
ROCK								<u> </u>			·· •·	
BURN PILES												

05/19/2000 **Rexford - Upper Face Pest Control** 10403180 Unit 3 **KOOTENAI NATIONAL FOREST** 10403180 SOIL DISTURBANCE MONITORING FORM DATE 2000 CUTTING METHOD SERVER SKIDDING METHOD dedicated STRICT If tractor: dispersed BB -SALE/S.A. HAZARD TREATMENT 1998 Fa fest SILVICULTURAL TREATMENT Unit # 100 Acres ed tree SD Н.Т. - ABLA/Vas OPERATION PERIOD Libo $Q_{\rm C}$ 1996 5 H 20-135 mid slope SEasper Slope 5000 COMPACTION (Heavy) 9.97 Clased **COMPACTION** (Light) UNDISTURBED Sec DISPLACED **EXCAVATED SKID TRAIL** SMZ/ROCK COMMENTS TUC Sur 10,30.96. $+ \omega d$ Now 160 SHAPE OF UNIT AND PATTERN OF TRANSECT

<u>MPACTION (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. <u>COMPACTION (Light)</u> - Any other area not included in heavy COMPACTION or UNDISTURBED. <u>UNDISTURBED</u> - No signs of any machinery or skidding acitvity.

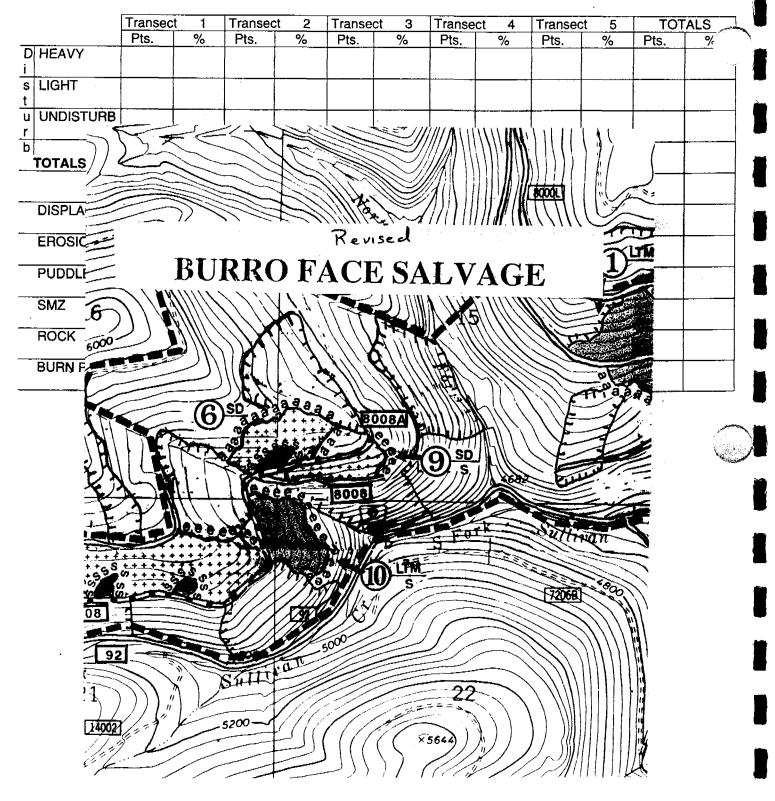
DISPLACED - Any place soil has been mounded by machinery, also include in heavy or light compaction.



05/19/2000 **Rexford - Burro Face** 10605204 Unit 10 KOOTENAI NATIONAL FOREST 10605204 SOIL DISTURBANCE MONITORING FORM DATE 2000 CUTTING METHOD and the Cl Ker & KIDDING METHOD **SERVER** LUA & Elf tractor: dedicated STRICT dispersed Х SALE/S.A. Burro <u>e</u>e F Contract AZARD TREATMENT 1999 Fal SILVICULTURAL TREATMENT Unit # Acres 10 w/ OPERATION PERIOD H.T. Alsi Abla Slope 10-40% les (SETOE) Ele: 5300 ma slope COMPACTION (Heavy) 357 Clase 9.24.98 COMPACTION (Light) UNDISTURBED DISPLACED EXCAVATED SKID TRAIL SMZ/ROCK COMMENTS The was our the. ωD +DF W con two trom SHAPE OF UNIT AND PATTERN OF TRANSECT 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. <u>COMPACTION (Light)</u> - 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.



12/07/2000 120-02-014/120-02-031 **Rexford - Upper Pinkham** Unit 5 KOOTENAI NATIONAL FOREST 12002014/12002031 SOIL DISTURBANCE MONITORING FORM 12.7.2000 DATE **CUTTING METHOD** SKIDDING METHOD SERVER men dedicated If tractor: STRICT dispersed HAZARD TREATMENT SALE/S.A. 🕻 Winkham Emery Unit # SILVICULTURAL TREATMENT CC. 15D Shelterum Acres 110 OPERATION PERIOD _____ 521 H.T. SAF Dec ZAQO Ele: 5000-5550 <u>10 - 35</u> Slope LT: 355 Aspect: West COMPACTION (Heavy) COMPACTION (Light) Indial UNDISTURBED DISPLACED EXCAVATED SKID TRAIL ongoing operation. The unit is 80% completed SMZ/ROCK This COMMENTS destroils usty, dres Very + water stand por Soul anoted trail will be put to artend tral shed trail rom cen h, leave all WL greater than 116", whole tree yarding SHAPE OF UNIT AND PATTERN OF TRANSECT

 Stand 120-02-014
 stand 120-02-031

 H.T. - 531
 H.T. = 732

 A - 27
 A. = 78

 Ele = 5500
 Cle = 5400

 S[= 18
 S[= 23

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

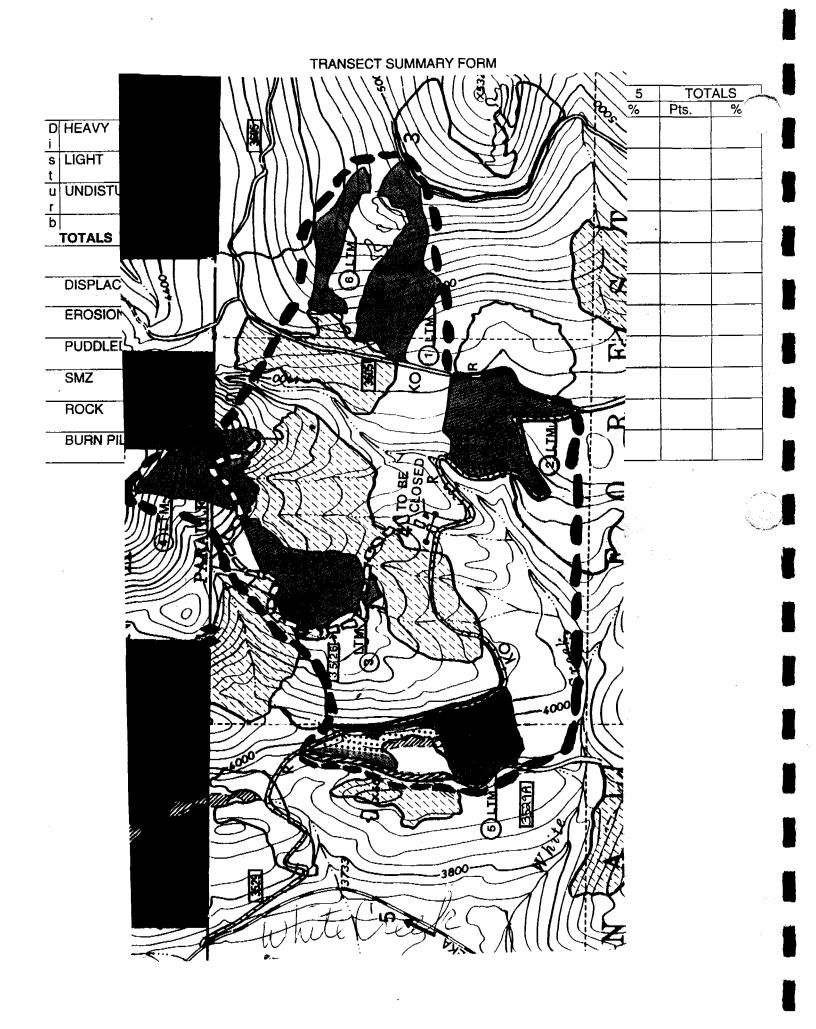
DISPLACED - Any place soil has been mounded by machinery, also include in heavy or light compaction.

	Transect	Transect 1		1 Transect 2				Transect 4		Transect 5		ALS
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
D HEAVY i												
s LIGHT t												
u UNDISTURB r												
b TOTALS												
DISPLACED												
EROSION												
PUDDLED					-							
SMZ												
ROCK												
BURN PILES												

05/18/2000 355 12081 Fortine - White Creek Unit 5 KOOTENAI NATIONAL FOREST 35502086 SOIL DISTURBANCE MONITORING FORM 2000 DATE CUTTING METHOD SKIDDING METHOD RSERVER STRICT dedicated If tractor: dispersed SALE/S.A. HAZARD TREATMENT BB years 194 Unit # SILVICULTURAL TREATMENT Acres H.T. 9 OPERATION PERIOD 4.1 199 Sisma Slope 25 51c: 4000 35 West COMPACTION (Heavy) **COMPACTION** (Light) 1. Alla UNDISTURBED DISPLACED **EXCAVATED SKID TRAIL** SMZ/ROCK COMMENTS th a S. SHAPE OF UNIT AND PATTERN OF TRANSECT <u>DMPACTION (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 acitvity.

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



05/18/2000 35504095 Fortine - Skillet Basin Unit 1 KOOTENAI NATIONAL FOREST 35504095 SOIL DISTURBANCE MONITORING FORM 2000 CUTTING METHOD DATE SKIDDING METHOD SERVER dedicated STRICT If tractor: dispersec ng 1996 HAZARD TREATMENT SALE/S.A. SAAA urn 10 SILVICULTURAL TREATMENT Unit # Acres SH 100 OPERATION PERIOD H.T. umn Ele: 5200' Slope West COMPACTION (Heavy) **COMPACTION** (Light) UNDISTURBED 0) DISPLACED EXCAVATED SKID TRAIL SMZ/ROCK COMMENTS This wal From the sail + water SHAPE OF UNIT AND PATTERN OF TRANSECT

<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. <u>COMPACTION (Light)</u> - 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.

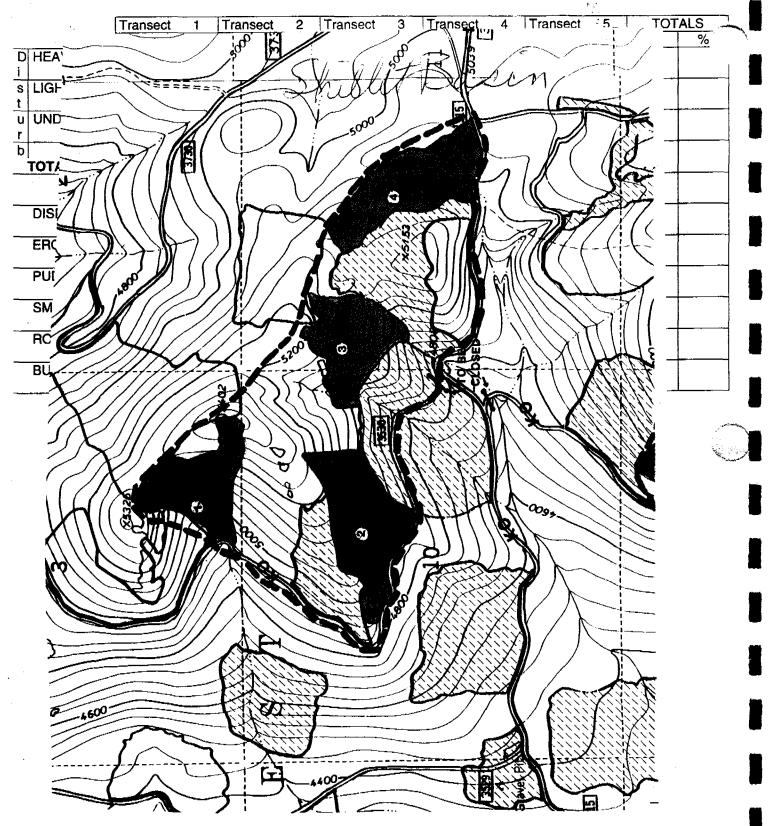
	Transect	t 1	Transec	t 2	Transe	ct 3	Transec	xt 4	Transec	t 5	ТОТ	ALS
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
D HEAVY i												
s LIGHT t												
u UNDISTURB												
b TOTALS					-							,
TUTALS			<u> </u>				+					
DISPLACED						 	+					
EROSION										· · · · · · · · · · · · · · · · · · ·		<u> </u>
PUDDLED							++			· · · · ·		
SMZ				<u> </u>				<u></u> ,				
ROCK		· · ·									<u> </u>	
BURN PILES												

05/18/2000 355 05 081 Fortine - Skillet Basin Unit 2 KOOTENAI NATIONAL FOREST 35505081 SOIL DISTURBANCE MONITORING FORM 2000 **CUTTING METHOD** DATE ¢ l NO. SKIDDING METHOD **SERVER** If tractor: dedicated STRICT dispersed HAZARD TREATMENT \mathcal{BB} 1996 1999 SALE/S.A. er. SILVICULTURAL TREATMENT Unit # Acres OPERATION PERIOD Jummer H.T. 1995 D Soul Ele: 5000 Slope 15-3 COMPACTION (Heavy) **COMPACTION** (Light) UNDISTURBED DISPLACED EXCAVATED SKID TRAIL SMZ/ROCK COMMENTS CA 40 SHAPE OF UNIT AND PATTERN OF TRANSECT

<u>MPACTION (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. <u>COMPACTION (Light)</u> - 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.

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Ð			10/15/1999 D-1 (Rexford) - M	cGuire LP Salvage
BE LOUG	ED É BRECAUSE DISTURIZANCE SO	KOOTENAI NATIONAL F	Still 10	
TE SSERVER DISTRICT SALE/S.A. Unit # H.T. Slope	IO IS 99 K. KINDEL D-1 Icluire	CUTTING METHOD SKIDDING METHOD If tractor: HAZARD TREATMENT SILVICULTURAL TRMT OPERATION PERIOD	UNDERBURN WIND	icated <u>x</u>
Location COMPACTION (H	Heavy) <u> </u>		aaz::/xu=>DZA	a: ∕⊠¤⊠::
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DISPLACED				/
SMZ/ROCK	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	
CROWND WAS F	FROZEN HEAVY DISTUR	BANCE WAT IDENTIFIED	TRAILS THAN NEC. ; VER	
	FOUND DURING LAY		SMZ) DID NOT AMAN	ан салан br>Ал на салан сал
trans		CL-2 LIMIT	* SFE JUNASOF	
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OMPACTION (He heavily and lightly COMPACTION (Li	used depending on amo	ount of compaction related to a	be significantly impacted, i.e., s scil moisture), landings, and oth	kid trails (both er impacted areas.

<u>UNDISTURBED</u> - 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.

Transec	t 1	Transec	xt 2	Transec	t 3	Transe	ct 4	Transed	t 5	TOT	ALS
Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
યય	20%	33	20%	74	13%	82	15%	33	12%	ماما2	15%
171	77%	122	75%	459	82%	432	80%	222	83%	1406	80%
7	3%	7	4%	28	5%	29	5%) 3	5%	84	5%
222	100%	162	99%	561	100 %	543	100%	268	100%	1756	100%
	Pts. 44 17-1 7	Pts. % 44 20% 171 77% 7 3%	Pts. % Pts. 44 20% 33 171 77% 122 7 3% 7	Pts. % Pts. % 44 20% 33 20% 171 77% 122 75% 7 3% 7 4%	Pts. % Pts. % Pts. 44 20% 33 20% 74 171 77% 122 75% 459 7 3% 7 4% 28	Pts.%Pts.%Pts.% 44 20% 33 20% 74 13% 171 77% 122 75% 459 82% 7 3% 7 4% 28 5%	Pts.%Pts.%Pts.%Pts. 44 20% 33 20% 74 13% 82 171 77% 122 75% 459 82% 432 7 3% 7 4% 28 5% 29	Pts.%Pts.%Pts.% 44 20% 33 20% 74 13% 82 15% 171 77% 122 75% 459 82% 432 80% 7 3% 7 4% 28 5% 29 5%	Pts.%Pts.%Pts.%Pts. 44 20% 33 20% 74 13% 82 15% 33 171 77% 122 75% 459 82% 432 80% 222 7 3% 7 4% 28 5% 29 5% 13	Pts.%Pts.%Pts.%Pts.% 44 20% 33 20% 74 13% 82 15% 33 12% 171 77% 122 75% 459 82% 432 80% 222 83% 7 3% 7 4% 2.8 5% 29 5% 13 5%	Pts.%Pts.%Pts.%Pts.%Pts.%Pts. 44 20% 33 20% 74 13% 82 15% 33 12% 266 171 77% 122 75% 459 82% 432 80% 222 83% 1406 7 3% 7 4% 28 5% 29 5% 13 5% 84

		10/15/1999
		D-1 (Rexford) - McGuire LP Salvage
UNIT WAS REQUESTED TO	312	Unit 116
LOOKED & BECAUSE HIGH	KOOTENAI NATIONAL FO	
LAT OF DISTURBANCE.	SOIL DISTURBANCE MONITO	RING FORM
TE <u>10/15/99</u>	CUTTING METHOD	(LIDPER PRICESS @ STUMP
OBSERVER K. KINDEL	SKIDDING METHOD	TRACTOR
DISTRICT	If tractor:	dispersed dedicated
SALE/S.A. <u>Mc (zuilet</u>	HAZARD TREATMENT	- UNDERBURN WIND FIRELINES
Unit # Acres	SILVICULTURAL TRMT	
H.T.	OPERATION PERIOD	SUMMER
Slope		
, Location COMPACTION (Heavy) <u>SI & S</u>	TO DARMA	2 / 5 T T 16
List.	55/ 10 12 14 10 / 43 / 18 18 M	
COMPACTION (Light) AND AND	BRRAUX BRRAR BRAR	MARRARRA 199 198 22 CRARA
ANDORAD ARNOOR	ABB :: 712 / RARRER AR	NERRER (199/2022)/2022 NERRER (199/2022)/2022 NERRER (199/2022)/2022
UNDISTURBED MARTIN	1 × (0/ D	
DISPLACED		
EXCAVATED SKID TRAIL		
SMZ/ROCK		
COMMENTS THIS UNIT WA		
	TEMP RA COMES INTO LA	HIT DUTE A DIT HAT BEEN
CHURNED UP		
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HAPE OF UNIT AND PATTERN OF	TRANSECT	
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JARIZZE JI		Ś
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NARRA SWOR TENOR	+SCHIL TIME	
		-
		be significantly impacted, i.e., skid trails (both
avily and lightly used depending on a	amount of compaction related to s	soil moisture), landings, and other impacted areas.
	amount of compaction related to s not included in heavy COMPAC	soil moisture), landings, and other impacted areas.

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

	Transect	1	Transec	t 2	Transec	t 3	Transe	ct 4	Transec		TOT	
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
D HEAVY i	38	8%	45	14%	28	15%	19	15%			130	12%
s LIGHT t	388	86%	264	83%	159	82%	104	86%			915	84%
u UNDISTURB	24	5%	10	3	6	3%	0	0			40	<u> </u>
b TOTALS	450	99%	319	100%	193	100%	123	101%	-		1085	100%0
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DISPLACED												
EROSION												
PUDDLED												
SMZ												
ROCK												
BURN PILES											· · · ·	

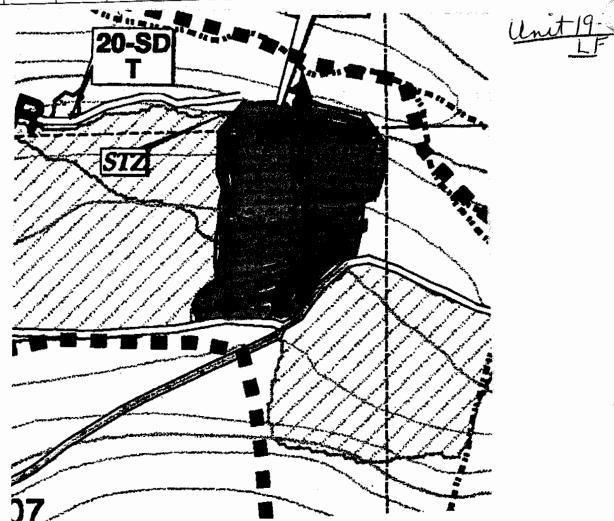
Boundary Mtn. Salvage 560 06 023 03/09/1999 Libby - Boundary Mtn Salvag **KOOTENAI NÁTIONAL FOREST** Unit 19 SOIL DISTURBANCE MONITORING FORM 56006023 1999 C V.s CUTTING METHOD rer ÎΈ SKIDDING METHOD 5 OBSERVER dedicated If tractor: dispersed DISTRICT by HAZARD TREATMENT yet SALE/S.A. Boundar SILVICULTURAL TRMT Acres Unit # OPERATION PERIOD DF/Libo H.T. 3006 - 3200 Slope Ele: Location 5 ver COMPACTION (Heavy) and 4 MAAKK 50 COMPACTION (Light n XXX 50 spa 80 UNDISTURBED wer 20 upper XXXXXX DISPLACED lower EXCAVATED SKID TRAIL SMZ/ROCK Lynn $\mathbf{\Sigma}$ ДĹ COMMENTS Kt down LPP. Unit mostly Jone emovina dec 110 ind. SHAPE OF UNIT AND PATTERN OF TRANSECT 1_n 0 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>COMPACTION (Light)</u> - Any other area not included in heavy COMPACTION or UNDISTURBED. <u>UNDISTURBED</u> - No signs of any machinery or skidding acitvity.

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

Transect Transect 2 TOTALS 5 Transect 3 Transect 4 Transect 2 1 % Pts. % % Pts. Pts. % Pts. % Pts. % Pts. 2 6 D HEAVY 4 3 2 į 39 LIGHT 100 S 50 38 50 40 t UNDISTURB 59 150 80 70 51 61 r 256 100 b 132 100 124 100 TOTALS \mathcal{O} DISPLACED 0 \mathcal{O} 0 0 D $\mathcal{O}_{\mathcal{O}}$ EROSION Ó O Ũ \mathcal{O} \mathcal{O} \mathcal{O} PUDDLED CS \mathcal{O} O \mathcal{O} O 15 38 SMZ 18 15 15 20 0 ROCK Ø 0 \mathcal{O} \mathcal{O} Ũ \mathcal{O} **BURN PILES** 0 D Ô 0 0

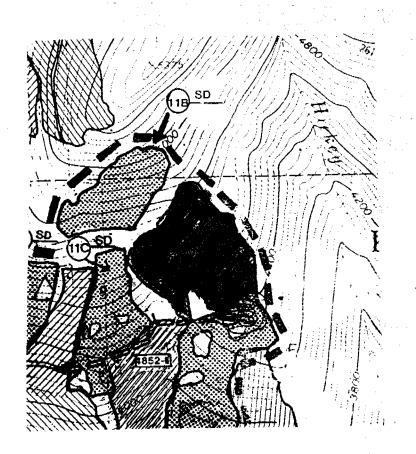
TRANSECT SUMMARY FORM



554 05 0H2 119 -26 1123/01 08/09/1999 Libby - Bristow Creek Salvage Unit 11A KOOTENAI NATIONAL FOREST 55405149 SOIL DISTURBANCE MONITORING FORM clipper CUTTING METHOD ATE SKIDDING METHOD Stum burnde BSERVER If tractor: dedicated STRICT disperse (LPP)HAZARD TREATMENT encerator silesing SALE/S.A. Briston Cr. Selv seiter SILVICULTURAL TRMT Unit # ILA Acres 83 5P 100 sheltewood OPERATION PERIOD, men 5 b: -> SAFICIUM H.T. SAF/L occt 150°- 2200 evation: 4200 -4800 Slope -4/ 4852et to Uni Location no upper npe COMPACTION (Heavy) 🛛 20 15 6 COMPACTION (Light) XXX 205 NK XXX NAX 206 XXX XXXXXX 120 **OUNDISTURBED** 62 ANAAK 64 4D 83 GAXAAA VXXXXX & & 50 D 5XCAVATED SKID TRAIL C MZ/ROCK Dean for 70 XXXI 24 45 COMMENTS ()cca 10% soul Surray barret 20. oto SHAPE OF UNIT AND PATTERN OF TRANSECT Unit 11A Q) earl \bigcirc OMPACTION (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>COMPACTION (Light)</u> - Any other area not included in heavy COMPACTION or UNDISTURBED. <u>UNDISTURBED</u> - 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. SMZ - Include within transect if within harvest unit.

		,1		-	TRANS	SECT SU	JMMARY	FORM					
		lowe		mil	<u>kie</u>	mp						TOT	
		Transect		Transec		Transé		Transec		Transect	<u>5</u> %	TOT Pts.	<u>ALS</u> %
		Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	70	Fis.	-70
	D HEAVY i	20	1	15	5	6	4.					41	6
	s LIGHT t	205		206	72	120	72					531	72
	u UNDISTURB	62	22	64	23	40	24					166	22
	b TOTALS	287	100	285	100	16.6	100					738	100
	DISPLACED	83	29	71	25	50	30					204	28
	EROSION	0	0	O	0	0	\mathcal{O}					0	0
	PUDDLED	0	\mathcal{O}	0	0	0	0					0	0
Que.	pock	70	24	45	16	24	14					139	19
jea	, P OCK	O	0	\mathcal{O}	0	0	Ø					0	C
	BURN PILES	0	Ø	0	0	Ø	0					0	0
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08/09/1999 5405 106 Libby - Bristow Creek Salvage **KOOTENAI NATIONAL FOREST** Unit 11C SOIL DISTURBANCE MONITORING FORM 55405106 Clipper CUTTING METHOD DATE SKIDDING METHOD Stump nacces lowar SERVER /dedicated STRICT If tractor: dispersed stor siles HAZARD TREATMENT SALE/S.A. Seatter ristow 26 SILVICULTURAL TRMT 5D See leve Unit # Acres COPERATION PERIOD 998 - SAF Chur H.T. 60 200-4600 150° - 180° Slope Aspect Eleva Location COMPACTION (Heavy) ØI **(3**) 1. প্র XXXXX $\boxtimes \boxtimes$ 57 (4, 4 NABBA 145 38 UNDISTURBED X X @ 20 \odot X X (3) МI 49 XXXX O XXXX 60 DISPLACED AN 15 B) 20 Ð MØ Ð M **A**47 EXCAVATED SKID TRAIL SMZ/ROCK COMMENTS Lots 2mo 10 SHAPE OF UNIT AND PATTERN OF TRANSECT ΠC Ð 3 Ð \odot OMPACTION (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.

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

7/97

	Transec	t 1	Transec	t 2	Transe	ct 3	Transe	ct 4	Transec		TOT		
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.		₩9-2 ⁴ 6 ⁻²¹
D HEAVY i	13	6	10	5	6	\mathscr{O}	2	4			32	5	
s LIGHT t	224	81	145	71	50	68	47	67			466	75	
u UNDISTURB	38	14	49	24	17	24	20	29			124	20	
b TOTALS	275	100	204	100	73	100	70	100			622	100	
											2 A		
DISPLACED	60	22	47	23	20	27	15	21			142	23	
EROSION	0	0	0	0	0	6	0	0			0	0	
PUDDLED	0	0	0	0_	0	0	Ð	O		-	\mathcal{O}	0	
SMZ	0	0	0	Ø	0	0	0	Ø			0	_C	
ROCK	0	0	0	0	0	0	0	Ø			0	0	
BURN PILES	0	0	0	0	0	O	0	0			0	Ø	



09/30/1999 Libby - Prospect Parmentor 52101195 able Unit 46 52101195 war - war -**KOOTENAI NATIONAL FOREST** SOIL DISTURBANCE MONITORING FORM 30,99 CUTTING METHOD **≜**TE SKIDDING METHOD SERVER Lennen Cal dedicated DISTRICT If tractor: dispersed 1661 HARARD TREATMENT TO be SALE/S.A. Prospect do - I'demontor SILVICULTURAL TRMT Unit # 46 Acres OPERATION PERIOD 999 H.T. GE Xete Aspect: ESE Slope 070 150 4100 - 4400 Location e: mid slope \mathcal{O} COMPACTION (Heavy) COMPACTION (Light) 40 240 DISPLACED \mathcal{B} EXCAVATED SKID TRAIL Ø SMZ/ROCK () COMMENTS Expanator het, w/b sut so till depos On sera SHAPE OF UNIT AND PATTERN OF TRANSECT 4728 -----Rd 4728C 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 acitvity. DISPLACED - Any place soil has been mounded by machinery, also include in heavy or light compaction.

(Transec	1	Transect	2	Transect	3	Transed	t 4	Transec			ALS
r	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
D HEAVY i	0	Ø					_					
s LIGHT t	UE)	14					_			······		
u UNDISTURB r	24ê)	86								<u> </u>		
b TOTALS	280	100			_							
							_			• • • • • • • • •		
DISPLACED	\mathscr{C}	3										
EROSION	O	O									<u> </u>	
PUDDLED	0	O								· · -		
SMZ	0	Ø									-	<u> </u>
ROCK	0	0										+
BURN PILES	0	C										



09/30/1999 Libby - Prospect Parmenter 52101200 Cable. Unit 48 52101200 KOOTENAI NATIONAL FOREST SOIL DISTURBANCE DATA FORM 9,30,90 CUTTING METHOD Clippe DATE Kuennen Esline. OBSERVER SKIDDING METHOD DISTRICTLIB HAZARD TREATMENT () pect-Parmenter Crawford SILVICULTURAL TREATMENT LT, SALE Pros Unit No. OPERATION PERIOD Acres Habitat Type WRC-wrt/Clun - WRC/ Kete upper Slope: 20 l'Ele: 4100-4400' Location: mid slope Hspert: NE 300 COMPACTION (Heavy) Trans.1 Trans.2 Trans.3 COMPACTION (Light) Trans. 1 🛛 つつ Trans.2 Trans.3 UNDISTURBED Trans. 1 DOBANIX DAN MARNAR 185 Trans.2 Trans.3 DISPLACED \mathcal{B} EXCAVATED SKID TRAIL O SMZ_O Could COMMENTS Corri looks very good a Deep unit 46 los ge, westerly landing sill a an bis on deen. and SHAPE OF UNIT AND PATTERN OF TRANSECT Kd 4728 ____ <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.

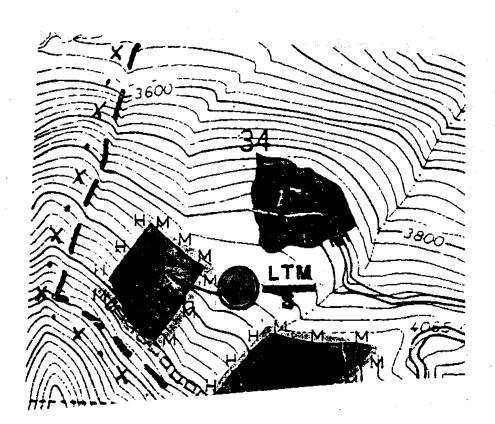
<u>COMPACTION(Light)</u> - any other area not included in heavy COMPACTION or UNDISTURBED. <u>UNDISTURBED</u> - no signs of any machinery or skidding activity.

<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.

7/97

	Transe	ect 1	Transe	ect 2	Transe	ect 3	Transe	ect 4	Trans	ect 5	TOT	ALS
	Pts.	6	Pts.	8	Pts.	ક	Pts.	જ	Pts.	જે	Pts.	8
D HEAVY i	5	3		 		 _			 	 		
s LIGHT t	20	10				 	1	 	 			
u UNDISTURB r	185	88			 							
b		1			İ		L					
TOTALS	210	100		<u> </u>		l	L			L		
			L			 	 		1			
DISPLACED	8	4										
EROSION	0	O		 				1				
PUDDLED	0	0		 		 			 			
SMZ	0	0			 							
ROCK	0	0			1	1						
BURN PILES	0	0				1						



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55903017

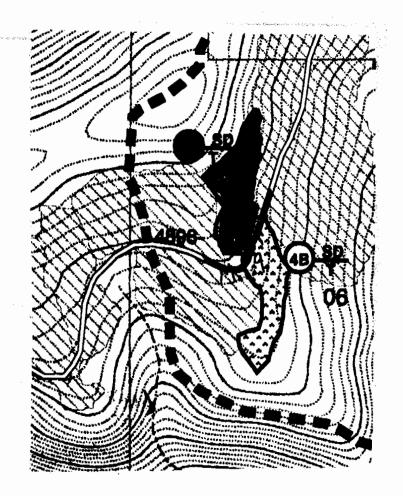
KOOTENAI NATIONAL FOREST SOIL DISTURBANCE DATA FORM 10/05/1999 Libby - Cripplehorse Salvage Unit 4A 55903017

eper-fellerbuncher DATE 10-5.99 CUTTING METHOD cated, some crowler SKIDDING METHOD ÖBSERVER uennen HAZARD TREATMENT whole the yord - lefter is DISTRICT いわわ Formin. lt down SDSILVICULTURAL TREATMENT SALE 100 Unit/No. 4 Acres: Elevation: 5500 - 5700 H.T.: DF/Cam Slope: 10-30% spect ESE COMPACTION (Heavy) COMPACTION(Light) 50 UNDISTURBED AN XXX 58 DISPLACED σ EXCAVATED SKID TRAIL () SMZ () COMMENTS Operations look good SHAPE OF UNIT AND PATTERN OF TRANSECT Unit 4A 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.

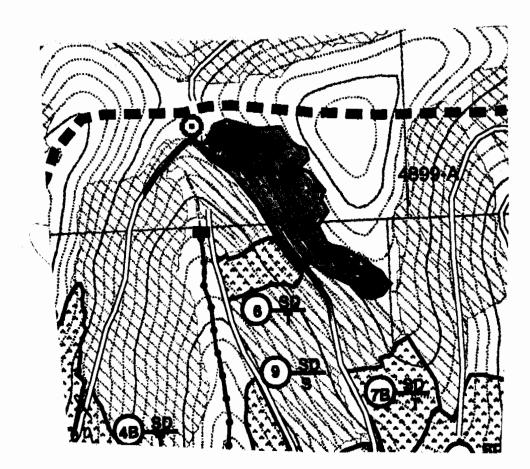
SMZ - include within transect if within harvest unit.

F	Transect	1	Transect	2	Transec	t 3	Transec	ct 4	Transec			ALS	
-	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	çist.
D HEAVY	2	2									2	2	-
s LIGHT t	50	45									50	45	
u UNDISTURB r	58	53									58	53	4
b TOTALS	110	100						•			110	100	-
DISPLACED	0	0									0	0	
EROSION	0	0									0	0	
PUDDLED	0	0									0	0	
SMZ	0	0									0	0	- 1
ROCK	0	0									0	0	_
BURN PILES	0	0									0	0	



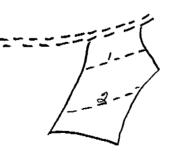
10/05/1999 55903039 Libby - Cripplehorse Salvage KOOTENAI NATIONAL FOREST Unit 5 SOIL DISTURBANCE DATA FORM --- 55903039 DATE 10.5.99 nched w/ excentor e dozen CUTTING METHOD clipper uennen SKIDDING METHOD ÖBSERVER HAZARD TREATMENT whole tree yard - left as is DISTRICTLibbi SILVICULTURAL TREATMENT_SD/removedeadt dowpolohorse SALE(/ 36 H . Hcres: OV. 1998 OPERATION PERIOD ASpect: WSW n slope Elivation: 5500-5800H.T.: SAF/Vase - DF/Caru(nur R.O.) 5/ope: 15-40 18 COMPACTION (Heavy) 💋 🗍 73 COMPACTION(Light) UNDISTURBED A RONNE AND A DA 140 DISPLACED Crosion: 1 EXCAVATED SKID TRAIL SMZ ₽DE in the COMMENTS < ownt can SHAPE OF UNIT AND PATTERN OF TRANSECT 11.15 <u>d 4898</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. 5/93

		TRANSECT SUMMARY FOR							Upl	Q		
	Transec	t 1	Transect	2	Transect	3	Transect	4	Transec	t 5	тот	ALS_
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
D HEAVY	18	8	6 - F						0	O	18	8
s LIGHT t	73	32							0	Ø	73	32
u UNDISTURB	140	60							O	Õ	140	60
b TOTALS	231	100						:• /	0	0	231	100
DISPLACED	18	8									18	8
EROSION	3	1									3	/
PUDDLED	0	0									0	0
ŚMZ	0	0									0	0
ROCK	O ·	0				1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.					0	0
BURN PILES	0_	0									0	0



10/05/1999 58001018 Libby - Weigel Creek Salvage KOOTENAI NATIONAL FOREST Unit 9 SOIL DISTURBANCE DATA FORM 58001018 hand - blow down area DATE 10.5.99 CUTTING METHOD ennen SKIDDING METHOD OBSERVER HAZARD TREATMENT Generatorpiles + burne DISTRICT Libb Farmer SALE Weigel Salvage SILVICULTURAL TREATMENT SDAcres: 8 Unit No. 9 OPERATION PERIOD Jeps Aspert: NE slope: LID H.T. : SAF/alsi - ES Clev. : 5050-5100 Location: upper slope COMPACTION (Heavy A A A 30 13 RØI OMPACTION (Light) & MANNE & A & & A 130 X X X X X X 81 MNDISTURBED M 18 $\square \square \square \square$ 32 DISPLACED 19 7 EXCAVATED SKID TRAIL KAA St Piles Mi 76 COMMENTS Deen as aver very dense till anz. SAF NARA d Charlos 600 licement due to netur dia detrimentalis 40

SHAPE OF UNIT AND PATTERN OF TRANSECT



Unit 9

<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.

<u>COMPACTION(Light)</u> - 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.

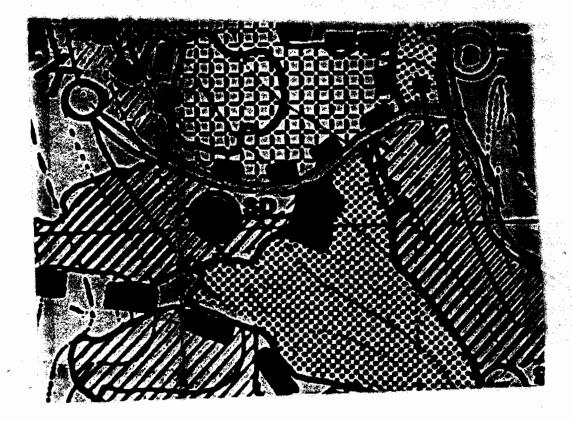
	TRANSECT SUMMARY FORM													
	Transect		Transec	$\frac{p c r}{t 2}$	Transect	t 3	Transe	ect 4	Transec					
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%		
D HEAVY i	30	17	13	10		>					43	14_		
s LIGHT t	130	73	81	64					3		211	69		
u UNDISTURB r	18	10	32	26					•	<u> </u>	50.	17		
b TOTALS	178	100	126	100		•	-	<u> :</u>			304	:100		
	[]										<u> </u>			
DISPLACED	19	11	7	6		· .				,	26	9		
EROSION	0	0	0	0						ц. ч	0	0		
PUDDLED	0	0	0	0							0	0		
SMZ	O	0	0	0							0	0		
ROCK	0	0	0	0							0	0		
BURN PILES	16	9	0	0							16	5		

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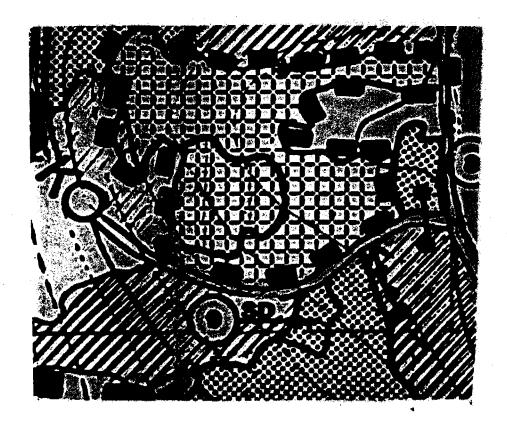


10/05/1999 68001026 Libby - Jet A Helicopter Salvage Unit 7 KOOTENAI NATIONAL FOREST 58001026 SOIL DISTURBANCE DATA FORM DATE_10.5 CUTTING METHOD OBSERVER ennen SKIDDING METHOD Fall 99; 2 javator line for DISTRICT HAZARD TREATMENT SILVICULTURAL TREATMENT SALE Unit No. 1997 OPERATION PERIOD Acres Habitat Type SAF/Chun Elevation: 5050 I Mete 515 Stope: upperT 10-20; lowerT L5 Aspect: insterly COMPACTION (Heavy) Trans 0 er Trans.2 Trans.3 Ô 73 COMPACTION(Light) Trans.1 00 MTrans.2 XXL 25 Trans.3 NNNNNN · UNDISTURBED Trans.1 NO 8 8 8 8 202 Trans.2 XXXXXXXXXXXXXXXXXXXXXX 154 Trans.3 \mathcal{O} DISPLACED EXCAVATED SKID TRAIL NA SMZNA Horner. BB looks COMMENTS Excavator Sale roug back. because of in 20 ementh 0.01 Transer 1 udles SHAPE OF UNIT AND PATTERN OF TRANSECT Rd 4424. 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.

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

	n			TRA	NSECT	SUMMA	RY FOR	ZM			1	
	Trans	el 2	Trans	ect 🖠	Trans	ect 3	Trans	sect 4	1 Trans	ect •		AT.C
	Pts.	8	Pts.	8	Pts.	8	Pts.	8	Pts.	8	Pts.	8
D HEAVY i	0	0	\mathcal{O}	$\lfloor o$							0	0
s LIGHT t	25	14	33	14							58	14
UNDISTURB	154	86	202	81.	 		 	 		 	356	1
<u> </u>	<u> </u>	L		L	1					- <u> </u> 	1	010
TOTALS	179	100	235	100		1		1	 	1	414	100
DISPLACED	0	0	$\Box o$	6							0	0
EROSION	0	0	\mathcal{O}						<u> </u>	<u> </u> 	0	0
PUDDLED	0	0	\mathcal{O}	0			<u></u>	 	<u> </u>	 		υ
SMZ	\mathcal{O}	0	0	0			<u></u>			 	0	
ROCK			·	<u> </u>			<u></u>	ļ	ļ	<u> </u>	0	0
	0	0	\underline{O}	0				 		 	0	0
BURN PILES	0	0	\mathcal{O}	0				l			0	0



10/05/1999 Libby - Upper Fivemile Salvage 65701089 Unit 20B **KOOTENAI NATIONAL FOREST** 55701089 SOIL DISTURBANCE MONITORING FORM CUTTING METHOD Ĺг ATE. SERVER SKIDDING METHOD crit tiactor dedicated dispersed DISTRICT Mc Bride If tractor: Salvoo HAZARD TREATMENTBB Fall SALE/S.A. Upper atorline w/ Hr Farenile Unit # 20 B Acres SILVICULTURAL TREATMENT =sĀ OPERATION PERIOD H.T. Aspect: ENE Ele: 3300-5400' Slope 35 COMPACTION (Heavy) 13 144 380 DISPLACED **EXCAVATED SKID TRAIL** SMZ/ROCK COMMENTS 1 B Com nund SHAPE OF UNIT AND PATTERN OF TRANSECT Unit 20B 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.

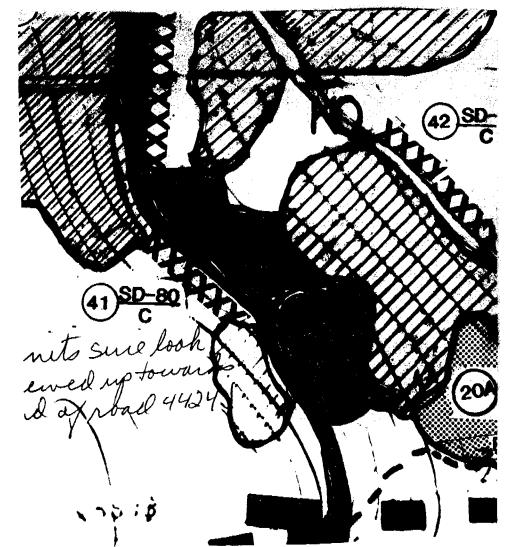
UNDISTURBED - No signs of any machinery or skidding acitvity.

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

1	Transect 1		Transec	t 2	Transe	ct 3	Transe		Transec		TOTALS		
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	
D HEAVY i	13	2									13	2	
s LIGHT t	144	27									144	27	
u UNDISTURB r	380	71									380	71	
b TOTALS	537	100									537	100	
DISPLACED	0	О						N	2 4 8	<u>i</u> sa s _{a s} i	\mathcal{O}	0	
EROSION	0	0									0	0	
PUDDLED	0	0									0	0	
SMZ	0	0									O	0	
ROCK	0	0									0	0	
BURN PILES	0	0						. 			0	0	

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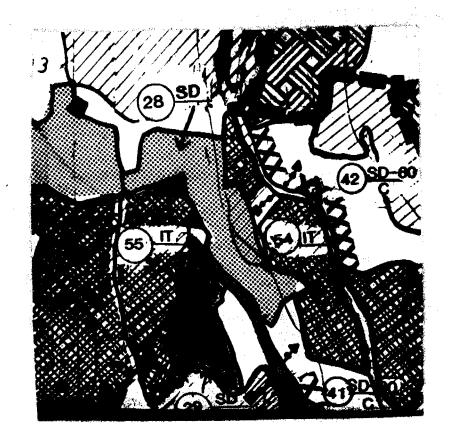
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10/05/1999 Libby - Upper Fivemile Salvage 55701091 Unit 29 KOOTENAI NATIONAL FOREST 55701091 SOIL DISTURBANCE MONITORING FORM CUTTING METHOD RATE SKIDDING METHOD SERVER Virken Mc Bride If tractor: dedicated STRICT dispersed Fivemile Schrage HAZARD TREATMENT BB Fell 1999 SALE/S.A. u vator line with SILVICULTURAL TREATMENT Unit # ,29 Acres OPERATION PERIOD 199 H.T. AUgust roch bluffs Location: ritge top Aspect Slope COMPACTION (Heavy) 4 1 -6 3 Middle MARKA 30 40 40 MAN AN <u>17</u>0 160 110 DISPLACE Ð 8 3 EXCAVATED SKID TRAIL Ο SMZ/ROCK COMMENTS 8-12" anh racified, dila underlaint sceneral levo abou -10 Tol removal of needlest overs good -look 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 acitvity. DISPLACED - Any place soil has been mounded by machinery, also include in heavy or light compaction.

Lower Mildle Uppers													
	Transec	t 1	Transec	Transect 2 Transect 3				xt 4	Transec				
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	<u>%</u> '	
D HEAVY i	3	2	6	3	4	2					13	2	
s LIGHT t	40	26	40	19	30	15					110	20	
u UNDISTURB r	110	. 72	160	18	170	83					440	78	
b TOTALS	 153	100	206	100	204	100					563	100	
								. <u></u>				·····	
DISPLACED	13	8	8	4	5	2					26	5	
EROSION	0	0	0	\dot{o}	0	0	_				0	D	
PUDDLED	O	0	0	0	0	0					0	D	
SMZ	0	0	0	0	0	0					0	0	
ROCK	0	0	0	0	0	Ø					0	0	
BURN PILES	0	\mathcal{O}	0	0	0	0					0	0	

A P



07/02/1999 Fork Fork 1 Just 06 24 Libby - Fork Fork Salvage Unit 1 KOOTENAI NATIONAL FOREST 70406024 SOIL DISTURBANCE MONITORING FORM 2,1999 OKI CUTTING METHOD ATE SKIDDING METHOD BSERVER dedicated DISTRICT If tractor: dispersed X \mathcal{BB} HAZARD TREATMENT SALE/S.A. Fork e yet Forh SILVICULTURAL TRMT Unit # Acres OPERATION PERIOD H.T. WH/W CL ANKA 2500 -2700 Slope EI spect Location COMPACTION (Heavy 17 \boxtimes 10 XXXXX 190 170 XXX UNDISTURBE 190 180 MA DISPLACED 5 **B** EXCAVATED SKID TRAIL SMZ/ROCK COMMENTS erally avod. The langent 12 of the uni ted trila 12 SHAPE OF UNIT AND PATTERN OF TRANSECT Unit 1 0. -----~~~======= OMPACTION (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 acitvity. DISPLACED - Any place soil has been mounded by machinery, also include in heavy or light compaction. SM7 - Include within transect if within harvest unit.

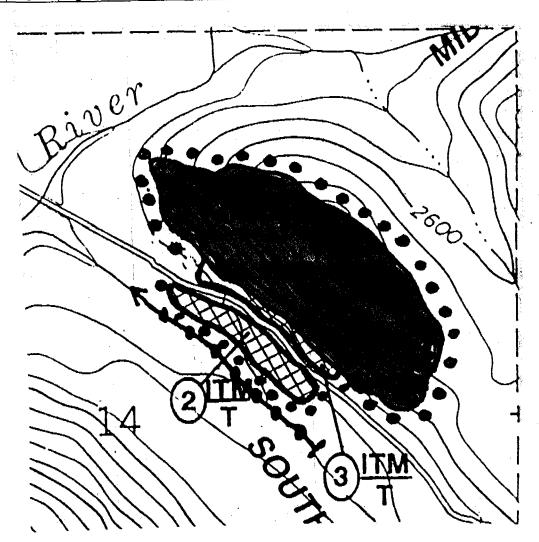
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	low	uth	m	MUTERINSECT SUMMARY FORM										
	Transec	Transect 1		Transect 2		Transect 3		Transect 4		5	TOTALS			
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%		
D HEAVY i	17	4	10	3						1	27	4.5	1	
s LIGHT t	190	48	170	47							360	47.5		
u UNDISTURB	190	48	180	50							370	49	l	
b TOTALS	397	100	360	100						<u>-</u>	757	100		
									· · · ·		·		1	
DISPLACED	5	1	7	2							12	1.5		
EROSION	0	0	0	0							0	0	ļ	
PUDDLED	0	0	0	0							0	0		
SMZ	0	0	C	0							0	0		
ROCK	0	0	Ø	6							0	0		
BURN PILES	0	0	ϕ	0				·			0	0		

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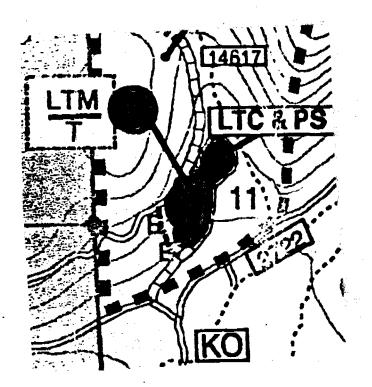
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erroy Mtn. Helicopter Re-ad 704 08 1 KOOTENAI NATIONAL FOREST Libby - Berray Mountain SOIL DISTURBANCE MONITORING FORM Unit 2 70408003 CUTTING METHOD ATE BSERVER SKIDDING METHOD ซีเรtrict dedicated If tractor: dispersed HAZARD TREATMENT not 1 yeta SALE/S.A. SILVICULTURAL TRMT See Unit # Acres **CONTRATION PERIOD** bottom), DF/Phone (hi H.T. WH 99 Slope -2500' 2400 le: Location PC. Hom 510 50 COMPACTION (Heavy) / men Old: lower 16 9 1 uppl COMPACTION (Light) lower 100 X X XX 40 upp UNDISTURBED 40 upper 🛛 60 DISPLACED 12 6 EXCAVATED SKID TRAIL Σı SMZ/ROCK COMMENTS 20 SHAPE OF UNIT AND PATTERN OF TRANSECT i kad SOMPACTION (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 acitvity. DISPLACED - Any place soil has been mounded by machinery, also include in heavy or light compaction. Include within transport if within horizet unit

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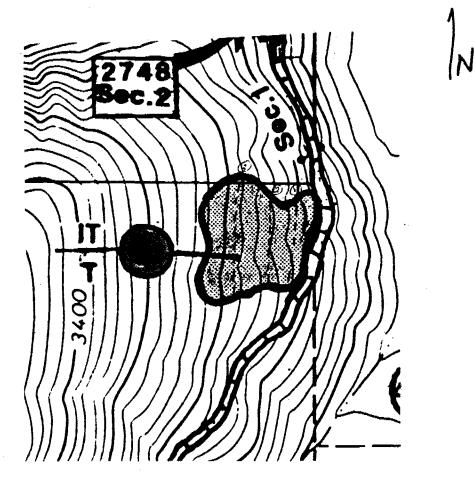
		D	lower upper old frail old frail											
	(Transec		Transect 2		Transect	3	Transe	ct 4	Transe	<u>ct 5</u>	TOT		Riterii T
		Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	-
	D HEAVY i	16	10	7	6			9	6	5	-5	23	9	
-	s LIGHT t	100	64	40	37				÷			140	53	
	u UNDISTURB r	40	26	60	56					ļ		100	38	
	b TOTALS	156	100	107	100		. <u></u>					263	100	4
											<u> </u>			-
	DISPLACED	12	8	6	6						<u> </u>	18	9	
A	- EBOSION vated trail PUDDLED	9	6	5	5							14	5	
-		0	0	0	0			_				0	0	
	SMZ	0	6	6	0							0	0	
	ROCK	0	0	Ø	0			_				0	0	
	BURN PILES	0	C	0	5							0	0].



09/29/1999 Cabinet - Smeads Rice Smeads-Rice 713 04 062 Unit 62 71304062 **KOOTENAI NATIONAL FOREST** SOIL DISTURBANCE MONITORING FORM CUTTING METHOD Ε SKIDDING METHOD SERVER 611 dedicated If tractor: dispersed DISTRICT SALE/S.A. Smean HAZARD TREATMENT ted yes SILVICULTURAL TRMT Unit # 6 OPERATION PERIOD H.T. Aspect: Éa Slope Location COMPACTION (Heavy) upan D \mathcal{B} 10 forver v COMPACTION (Light) 105 Alle: \mathcal{R} 102 10 3 UNDISTURBED 124 90 70 lower DISPLACED i.3 n ower: XXX 18 1ll 20 EXCAVATED SKID TRAIL ଛ mid 12 Aven SMZ/ROCK trail put to bed. 10-10" Volcanic as COMMENTS Excavated residual. Anes SHAPE OF UNIT AND PATTERN OF TRANSECT unit62 3) ſ a R. 2748 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 acitvity.

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

		LM	ver		- J/		JMMARY RALL	FORM					
		Transec		Transect 2 Pts. %		Transect 3		Transect 4		Transect 5		TOT	
		Pts.	%			Pts.	%	Pts.	%	Pts.	%	Pts.	%
	D HEAVY i	10	6_	8	4	R	4					28	4.5
	s LIGHT t	103	56	102	51	105	44					310	.50
	u UNDISTURB r	70	38	90	45	124	52					284	45,5
	b TOTALS	183	100	200	100	239	100					622	16-0
	DISPLACED	20	11	18	9	13	5					51	8
hee	vatedshil	12	1	8	4	0	0					20	3
1	PUDDLED	C	0	0	Ø	0	∂						
	SMZ	0	\mathcal{C}	0	0	\hat{C}	0_						
	ROCK	C	Û		\mathcal{C}	0	\bigcirc						
	BURN PILES	0	0	0	0	$\overline{\mathcal{O}}$	\bigcirc						



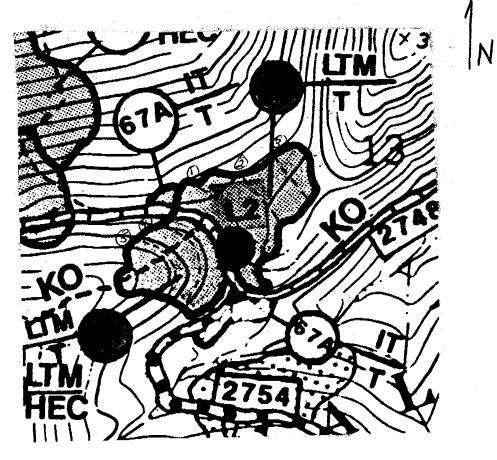
09/29/1999 Smeado-Rice 913 04 067 **Cabinet -Smeads Rice** Unit 67 - 1. 241, 71304067 **KOOTENAI NATIONAL FOREST** SOIL DISTURBANCE MONITORING FORM CUTTING METHOD ATE SKIDDING METHOD OBSERVER hnen K1 If tractor: dispersed dedicated DISTRICT bine Hilt HAZARD TREATMENT SALE/S.A. Sineads-Rice texuet Unit # <u>67</u> A H.T. *DF/<u>Phma</u>* SILVICULTURAL TRMT Acres OPERATION PERIOD Aspect: 5-40 North Slope north-25 :south Location T) COMPACTION (Heavy) 08 N3) 🕅 NZ) (4)21 \mathfrak{G} (S4) X X XXXXX 0 240 COMPACTION (Light) @101 NDABBBBBB <u> O 15</u>0 অম (4) NABABABA @ 160 @ 127 UNDISTURBED (N1) @28 ØØ'I NJANI 323 A50 (\mathcal{S}) XX 30 XXXXX 55) MNN \$ 30 33 09 210 DISPLACED (12) (Z) (N3) (SU) XXX 6) 20 X | XÐ (55) 30 EXCAVATED SKID TRAIL 0 SMZ/ROCK Ø COMMENTS To dom are Melo road to the north - very gentle slope (10 deepash, WRC/Libo/Xete Zha perca a L40 200 to p angular lone, deepas 5 debris, adequate -5"CWD little 75" Very agan SHAPE OF UNIT AND PATTERN OF TRANSECT Uni ħo. 2740 N3 Nプ <u>COMPACTION (Heavy)</u> - Any place where fugure 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 acitvity.

1001 ACCD Any place soil has been mounded by machinery, also include in heavy or light compaction.

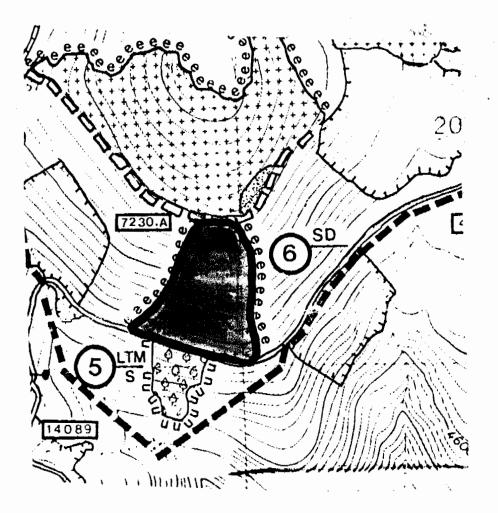
	NI N2 N3 54 55												
1			<u>/ / /</u> Transec	<u>t</u> 2	Transect 3		Transect 4		Transect 5		TOT		1
	Transec Pts.	%	Pts.	% Pts.		%	Pts.	%	Pts.	%	Pts.	%	
DHEAVY	i9	7	E.	6	11	6	21	9_	13	B	12		
s LIGHT	240	83	101	77	150	7.8	160	69	1.27	75	278	77	
	28	10	23	17	30	16	50	.2.2_	30	17	161	16	
b TOTALS	287	100	132	100	191	100	231	100	170	100	1011	100	╡
								· · · · · · · · · · · · · · · · · · ·	 				
DISPLACED	9	3	10	8	3		30	13	20	12	72	7	-
EROSION	0	0	0	0	0	0	0	0	0	0	0	0	
PUDDLED	0	0	0	0	0_	0	0	0	0	0	0	0	
SMZ	0	0	0	0	Ø	0	0	O	0	0	0	0	
ROCK	0	0	0	0	0	0	0	0	0	0	0	0	-
BURN PILES		U	0	0	0	0	0	. C	0	0	0	0	
		<u> </u>	<u> </u>	<u> </u>				а -				(



07/28/1999 Rexford - Middle Fork Pest Control 31 01 111 Unit 6 KOOTENAI NATIONAL FOREST 13101111 SOIL DISTURBANCE MONITORING FORM **CUTTING METHOD** TE SKIDDING METHOD SERVER hnem dedicated spersed If tractor: DISTRICT HAZARD TREATMENT SALE/S.A. M SILVICULTURAL TRMT Unit # summer OPERATION PERIOD H.T. SSW le:5150 560 Slope Location . and auast <u>s/0pe</u> .pper COMPACTION (Heavy) COMPACTION (Light) UNDISTURBED DISPLACED **EXCAVATED SKID TRAIL** SMZ/ROCK COMMENTS surface 04 mar 11Q. thereard ma surface Since In general the unit looks good, < 5% Setriments Sisturbances SHAPE OF UNIT AND PATTERN OF IRANSECT Rd 7230, A RJ 4874 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 acitvity.

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

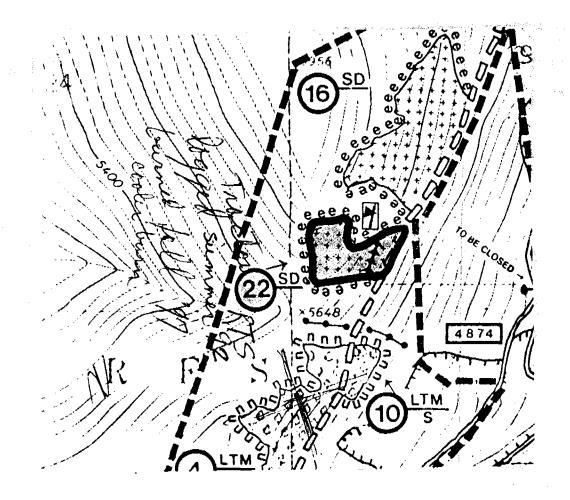
	Transect	<u> </u>	Transect	2	Transe	ect 3	Transe	ect 4	Transec			ALS
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
D HEAVY												
s LIGHT t		-										
u UNDISTURB												
TOTALS											ļ	
DISPLACED									[!]			
EROSION	 											
									<u> </u> !	'		
PUDDLED			<u> </u>						<u> </u>			
SMZ										ļ'		<u> </u>
ROCK												
BURN PILES												



13101117		TIONAL POREST	07/28/1999 Rexford - Middle Fork Pest C Unit 22 13101117	Pro S
ATE <u>7/28/99</u> BSERVER Kuennen DISTRICT Refind SALE/S.A. Middle Ford Unit # ZZ Acres H.T. <u>5AF/Vasc</u> Slope <u>5-25</u> Location <u>upper sl</u> COMPACTION (Heavy)	CUTTING ME SKIDDING MI If tractor: HAZARD TRE 18 SILVICULTUI OPERATION Aspect: Morthin Me Cle: 530	ETHOD <u>RT</u> dispersed EATMENT <u>BB</u> RAL TRMT <u>Seco</u> PERIOD <u>Sur</u>	clipper dedicated Fall-97 tree 51 imer 92 alli quartnite 6-8" a	2 2 2 4
COMPACTION (Light)			newser	
	······			
DISPLACED		······································		
EXCAVATED SKID TRAIL		······································		
SMZ/ROCK				
Ditch function	(Rd. 7230.1) (Rd. 7230.1) (Rd. 7230.1) (Rd. 7230.1) (Rd. 7230.1) (Rd. 7230.1) (Rd. 7230.1) (Rd. 7230.1) (Rd. 7230.1)	most of the	top. ulverts. Then itch scouring	e are in place
SHAPE OF UNIT AND PATTER	N OF TRANSECT		· · · · · · · · · · · · · · · · · · ·	
	real temp	- 7230.1	Unit looks good!	very
<u>OMPACTION (Heavy)</u> - Any pl heavily and lightly used dependi <u>COMPACTION (Light)</u> - Any oth <u>UNDISTURBED</u> - No signs of ar <u>DISPLACED</u> - Any place soil has	ng on amount of compaction er area not included in heavy ay machinery or skidding acity	related to soil moisture COMPACTION or UN vity.), landings, and other impa DISTURBED.	

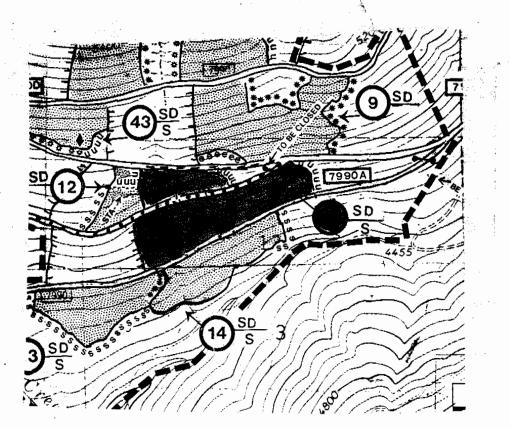
1147 Include within transact if within harvaet unit

	Transect	1	Transect	2	Transect	3	Transe	ct 4	Transec			TALS
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
LIGHT												
UNDISTURB												
TOTALS												
DISPLACED												
EROSION						1						
PUDDLED												
SMZ			+									
ROCK												
BURN PILES			+ +		+ +						<u> </u>	



08/11/1999 Rexford - Brier Patch P.C. Walk 126 04 156 Unit 11 12604156 **KOOTENAI NATIONAL FOREST** SOIL DISTURBANCE MONITORING FORM rocess Aste CUTTING METHOD SKIDDING METHOD Shy SERVER line an elow dedicated If tractor: dispersed DISTRICT woodan break 1996 HAZARD TREATMENT ЪB nel SALE/S.A. and SILVICULTURAL TRMT D Unit # Acres H OPERATION PERIOD 995 H.T. 20-40 Volumie a Slope Elevation: 4500-4900 Location lower nain COMPACTION (Heavy) **COMPACTION** (Light) UNDISTURBED DISPLACED EXCAVATED SKID TRAIL neater than 14" stump left. SMZ/ROCK all USL COMMENTS cont Som 7990B 7990A The Cui ene 10 An distric. t 1 an a 0 ÓF UNIT AND PATTERN OF TRANSECT SHAPE 990 79904 ____ ----_ 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 acitvity. DISPLACED - Any place soil has been mounded by machinery, also include in heavy or light compaction. their hornort unit 7/97

	Transect	1	Transect	2	Transect	3	Transe		Transec		TOT	ALS
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
D HEAVY						,						
s LIGHT t												
u UNDISTURB												
b TOTALS												1
DISPLACED												
EROSION												
PUDDLED												
SMZ												
ROCK		1 4										
BURN PILES												



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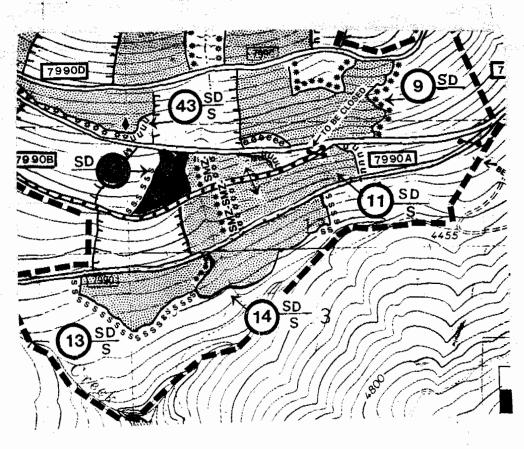
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08/11/1999 **Rexford - Brier Patch Pest Control** 126-04-155 Wolf Throw Unit 12 12604155 **KOOTENAI NATIONAL FOREST** SOIL DISTURBANCE MONITORING FORM rocess at ÌΕ CUTTING METHOD SKIDDING METHOD SERVER ractor dedicated If tractor: DISTRICT spersed line Just break 199 HAZARD TREATMENT SALE/S.A. 101 SILVICULTURAL TRMT Unit # Acres OPERATION PERIOD H.T. nefe \$\$E Aspect & Slope Evation 4700 - 4900 Location COMPACTION (Heavy) COMPACTION (Light) UNDISTURBED DISPLACED EXCAVATED SKID TRAIL SMZ/ROCK COMMENTS re is some detrimental he de 9000 was part of a district ught le so h SHAPE OF UNIT AND PATTERN OF TRANSECT 7990 nit 12 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>COMPACTION (Heavy)</u> - Any place where fulling 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>COMPACTION (Light)</u> - Any other area not included in heavy COMPACTION or UNDISTURBED. <u>UNDISTURBED</u> - No signs of any machinery or skidding acitvity.

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

1	Transect	1	Transect	2	Transec	t 3	Transe	ct 4	Transec			ALS
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
s LIGHT												
b TOTALS												
DISPLACED												
EROSION												
PUDDLED												
SMZ												
ROCK												
BURN PILES												



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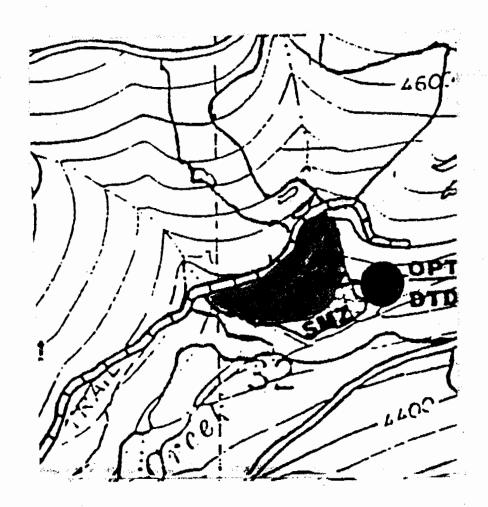
09/13/1999 Fortine - Lost Lamb Salvage Forwarder KOOTENAI NATIONAL FOREST 35306010 Unit 3 SOIL DISTURBANCE DATA FORM 35306010 DATE Sept. 13, 1999 Lippen/processor CUTTING METHOD SKIDDING METHOD **ÖBSERVEŘ** 7, landing clun-up DISTRICT HAZARD TREATMENT \dot{l} SILVICULTURAL TREATMENT 5D (deal & down LPP) SALL Ūnit No: Acres: 10 998 OPERATION PERIOD Summer HT: DF/ Arur - SAF/Libo lower Aspect: 55W Ele: 4900 - 4500' Slope; COMPACTION (Heavy) COMPACTION(Light) UNDISTURBED DISPLACED EXCAVATED SKID TRAIL SMZ COMMENTS on three 5 M Noch on avod erelle book SHAPE OF UNIT AND PATTERN OF TRANSECT Units 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.

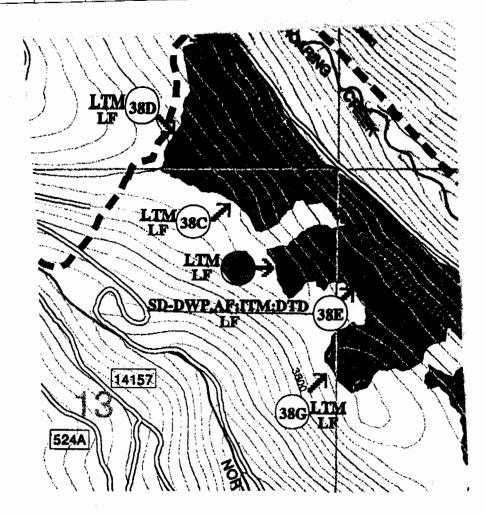
<u>SMZ</u> - include within transect if within harvest unit.

	1	Transect	1	Transect	2	Transe	ct 3	Transec	ct 4	Transe	ct 5		ALS
	ĺ	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
D	HEAVY												
s t	LIGHT									5. <u>1</u> . 1 4			
u r	UNDISTURB									· .			
b 1	OTALS					• 2	· · ·	•	•		-		· · · ·
	DISPLACED												
	EROSION												
	PUDDLED												
	SMZ												
	ROCK												
•	BURN PILES												



Forwarder 406 01 176 09/24/1999 Three Rivers - Roaring Meadows Salvage **KOOTENAI NATIONAL FOREST** Unit 38B SOIL DISTURBANCE MONITORING FORM 40601176 9,24,99 **CUTTING METHOD** E elict SKIDDING METHOD rwarder **OBSERVER** Shira If tractor: dispersed dedicated DISTRICT SALE/S.A. Roaring Mea covetor relo) HAZARD TREATMENT ----SILVICULTURAL TRMT Unit # 38 Agres serves) OPERATION PERIOD H.T. US northeast Slope spect 3600 - 3700 Location valion COMPACTION (Heavy) **COMPACTION** (Light) UNDISTURBED DISPLACED EXCAVATED SKID TRAIL SMZ/ROCK COMMENTS We wal nex mer And inter a 12 Unit looks SHAPE OF UNIT AND PATTERN OF TRANSECT Unit 38B 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 acitvity. DISPLACED - Any place soil has been mounded by machinery, also include in heavy or light compaction.

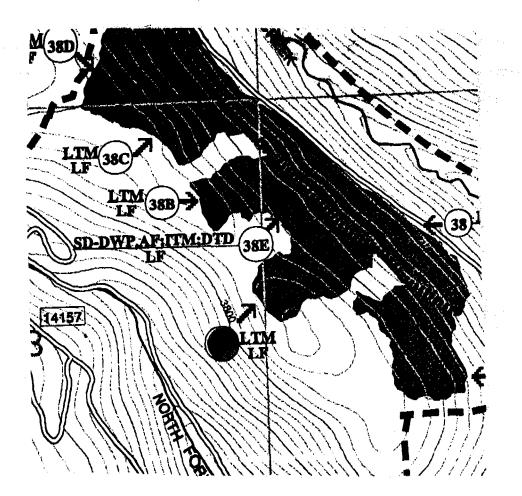
	Transust	1	Transect	2	Transect	3	Transec	t 4	Transec			TALS
	Transect Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
DHEAVY											· · · · · · · · · · · · · · · · · · ·	
s LIGHT		• _										
u UNDISTURB												
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EROSION												
PUDDLED								`				
SMZ												
ROCK												
BURN PILES												



Forwarder 09/24/1999 406 01 179 Three Rivers - Roaring Meadows Salvage **KOOTENAI NATIONAL FOREST** Unit 38G SOIL DISTURBANCE MONITORING FORM 40601179 9.24.99 DATE CUTTING METHOD clipper SERVER 🗡 Benedict SKIDDING METHOD dor STRICT vers Shira If tractor: dispersed dedicated SALE/S.A. 🕅 Solv. HAZARD TREATMENT not (Elcavator paring Meadows treated yet. Unit # <u>38 G</u> 'Acres SILVICULTURAL TREATMENT 21 TM`LF ('CC OPERATION PERIOD Jan- Feb 1999 C H.T. ωH ... nia 75% Aspect: northeast Ele: 3700-3950 Slope 5-COMPACTION (Heavy) COMPACTION (Light) UNDISTURBED DISPLACED EXCAVATED SKID TRAIL SMZ/ROCK COMMENTS Jooks good. Unit SHAPE OF UNIT AND PATTERN OF TRANSECT Unit 38G 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 acitvity.

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

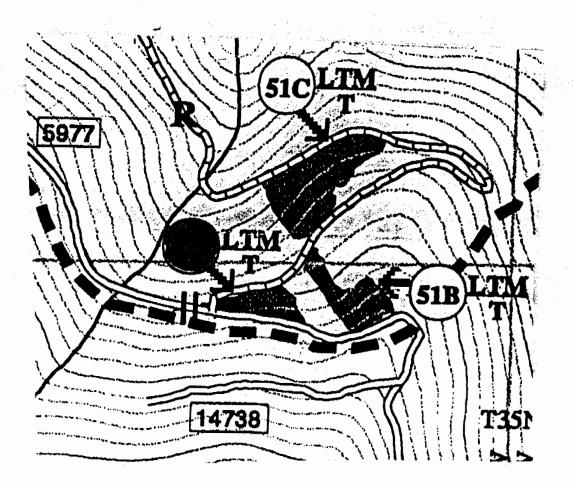
	Transect	: 1	Transec	t 2	Transe	ct 3	Transe	ct 4	Transec	t 5		ALS
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	<u>%</u>
D HEAVY i												1 the American
s LIGHT					×							
u UNDISTURB								· · · · · ·				
b TOTALS												
DISPLACED												
EROSION												
PUDDLED												
SMZ			·									•
ROCK												
BURN PILES												



Forwarder 05 03 196 09/24/1999 Three Rivers - Roaring Meadows Salvage **KOOTENAI NATIONAL FOREST** Unit 51A SOIL DISTURBANCE MONITORING FORM 40503196 1,24.99 CUTTING METHOD ŀΕ Vi eneductskidding METHOD SERVER arder Shiralf tractor: dispersed dedicated DISTRICT HAZARD TREATMENT et (Eice SALE/S.A. itos pilo) Solv, SILVICULTURAL TRMT Unit # 51 Acreé OPERATION PERIOD Oc H.T. W. 19 pect: northwest Slope 4200-4300 Location Elevetions COMPACTION (Heavy) COMPACTION (Light) UNDISTURBED DISPLACED EXCAVATED SKID TRAIL SMZ/ROCK COMMENTS 10 Inr am 10 Am inany 001 SHAPE OF UNIT AND PATTERN OF TRANSECT 393 = = = 77 Rd 5 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 acitvity. DISPLACED - Any place soil has been mounded by machinery, also include in heavy or light compaction.

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

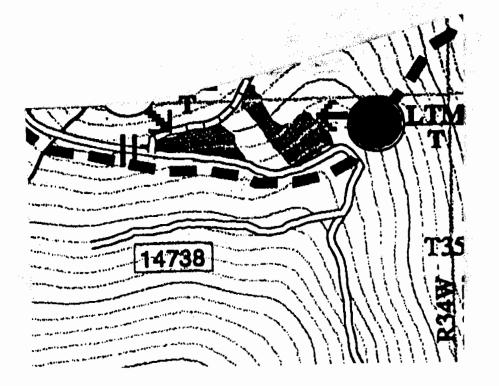


Forwarder 09/24/1999 405 03 197 Three Rivers - Roaring Meadows Salvage Unit 51B KOOTENAI NATIONAL FOREST 40503197 SOIL DISTURBANCE MONITORING FORM 9.24.99 **CUTTING METHOD** ĴΕ Lennen, Benedustidding METHOD una. SERVER dedicated dispersed Shiralf tractor: DISTRICT HAZARD TREATMENT 1.16 not SALE/S.A. Sahr. SILVICULTURAL TRMT Unit # _ Acres fonce OPERATION PERIOD Der H.T. Aspect: northwest Slope Elevation & 4100 4350 Location ne m COMPACTION (Heavy) **COMPACTION** (Light) UNDISTURBED DISPLACED **EXCAVATED SKID TRAIL** SMZ/ROCK 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 acitvity.

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

	Transect	1	Transect	2	Transect	3	Transec	t 4	Transect			ALS
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
DHEAVY											4	
UNDISTURB											 	
TOTALS												
DISPLACED												
EROSION												
PUDDLED												
SMZ												
ROCK												
BURN PILES												

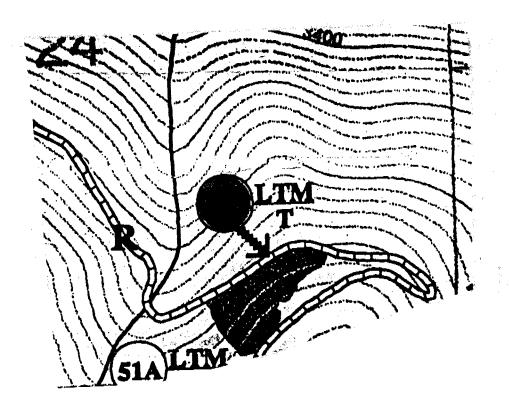


Forwarder 40503 198 09/24/1999 Three Rivers - Roaring Meadows Salvage **KOOTENAI NATIONAL FOREST** Unit 51C SOIL DISTURBANCE MONITORING FORM 40503198 ch .24,99 CUTTING METHOD Z ΤE ennen, BenedictSKIDDING METHOD **OBSERVER** ward eno Shira If tractor: dispersed dedicated DISTRICT HAZARD TREATMENT not Eleavation SALE/S.A. oan Salur SILVICULTURAL TRMT Unit # <u>5/</u> Acres nuaga OPERATION PERIOD OC Dec. H.T. ω , Turent Slope non 10 nect: evation Location <1 ma COMPACTION (Heavy) COMPACTION (Light) UNDISTURBED DISPLACED EXCAVATED SKID TRAIL SMZ/ROCK COMMENTS times . The unit water ter logger. So. SHAPE OF UNIT AND PATTERN OF TRANSECT Unit 51C 393 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 acitvity.

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

	Transect	t 1	Transect	2	Transect	3	Transec		Transect			ALS
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
HEAVY		<u></u>										
LIGHT												
UNDISTURB												
TOTALS						.						
DISPLACED										<u> </u>		
EROSION			-									
PUDDLED												
SMZ												
ROCK												
BURN PILES												

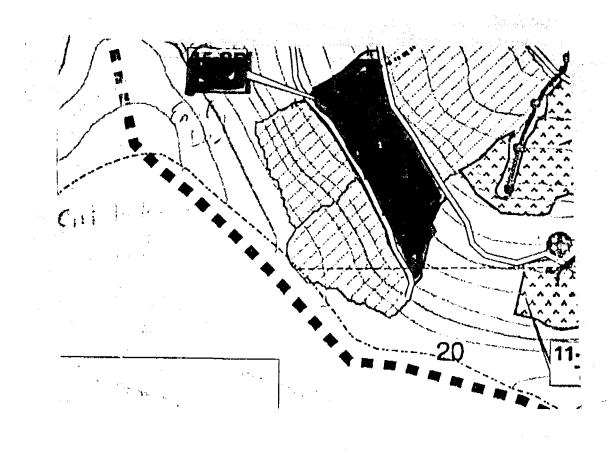
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04/27/1999 Libby - Boundary Mountain Salvage 560 06 099 KOOTENAI NATIONAL FOREST Unit 15 56006099 SOIL DISTURBANCE MONITORING FORM CUTTING METHOD 1999 dedicated dispersed If tractor: HAZARD TREATMENT Boundar SILVICULTURAL TRMT Acres/ OPERATION PERIOD NE Aspect 25 be -4650 4450 Elevation I mid to upp cation PACTION (Heavy) MPACTION (Light) DISTURBED SPLACED CAVATED SKID TRAIL MZ/ROCK OMMENTS (Include soil, geology, organic debris, other pertinent info) Looks good. Winter operation. Some all epeans tal frails from much alter operations. ilm HAPE OF UNIT AND PATTERN OF TRANSECT Rd 4904____ Unit 15 Rd 4939 ACTION (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 acitvity. Any place soil has been mounded by machinery, also include in heavy or light compaction. 10/99

	Transect	1	Transect	2	Transect	3	Transec	ct 4	Transec	t 5	TOT	ALS
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	• %
D HEAVY												
s LIGHT												
b TOTALS				-								
DISPLACED												
EROSION											•=	
PUDDLED									-			
SMZ												
ROCK		e da										
BURN PILES												

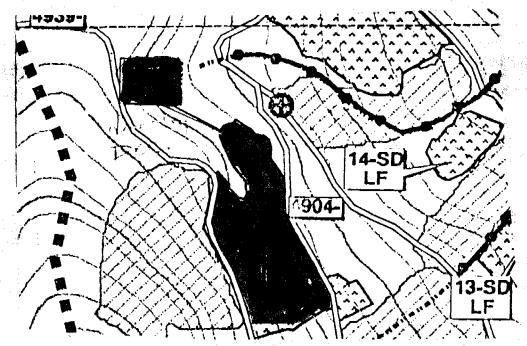
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560	06	052					finardes
			OOTENAI NA DISTURBANCE				99 Y undary Mountain Salvage 56006052
SALE/S.A. Boundary Unit # 25 Acres H.T. Slope 20-3 Location mid + COMPACTION (Heavy)	5	remport Crawford	CUTTING ME (SKIDDING M HAZARD TRE SILVICULTU OPERATION Aspect I Elevation	ETHOD EATMENT RAL TRMT PERIOD ENE	int to farm dispersed SD/ Dec. Dec.	lenoth vahde 7 Jone 1998	dedicated
COMPACTION (Light)							
				· · · · · · · · · · · · · · · · · · ·	·····	· · · · · · · · · · · · · · · · · · ·	
DISPLACED		• • • • • • • • • • • • • • • • • • •		· · · · · · · · · · · · · · · · · · ·	······································		
EXCAVATED SKID TRAIL		······································			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
SMZ/ROCK COMMENTS (Include so 4-8" as	il, geolo	gy, organic	debri <u>s, other pe</u>		10 900	ł. w.	inter operation
<u></u>		/					
	· · · · ·			· · · · ·			
	· · · · · · · · · · · · · · · · · · ·			\sim			
SHAPE OF UNIT AND PAT	TERN	OF TRANSE	ECT		<u> </u>		
			A state to the state of the sta	- Limit			
<u>MPACTION (Heavy)</u> - A neavily and lightly used dep COMPACTION (Light) - An	ending	on amount o	of compaction r	elated to so	oil moisture), l	andings, ar	i.e., skid trails (both ad other impacted areas.

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

	Transect	1	Transect	2	Transect		Transe		Transec		TOT		
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	K N
D HEAVY													
s LIGHT		×											
u UNDISTURB	-											#***	
b TOTALS													
DISPLACED													
EROSION				-									
PUDDLED										-	-		
SMZ								- <u>.</u>					
ROCK											· ••		
BURN PILES		.1.						·					



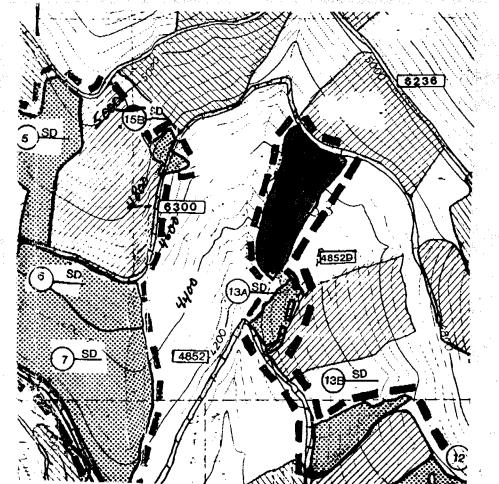
55405089 soi	KOOTENAI NATIONAL FOREST L DISTURBANCE MONITORING FORM	09/28/1999 Libby - Bristow Creek Salvage Unit 8 55405089
DATE Sept. 28, 1999 SERVER <u>Ruennen</u> STRICT <u>Libby</u> SALE/S.A. <u>Briston Ci. Salva</u> Unit # <u>B</u> Acres <u>29</u> H.T. Slope <u>20-35</u> Location <u>mid to upper</u> COMPACTION (Heavy)	CUTTING METHOD SKIDDING METHOD If tractor: HAZARD TREATMENT SILVICULTURAL TRMT OPERATION PERIOD Aspect 1 SILVICULTURAL TRMT DELATION PERIOD Sum Elevation 1 4300 -4700	k <u>reelength [landing process</u> <u>X</u> dedicated men 1999
COMPACTION (Light)		
DISPLACED		
EXCAVATED SKID TRAIL		
SMZ/ROCK		
COMMENTS (Include soil, geology, organ Rd 4852 D to be put Trail. CWD is good.		& One main shid MP andit.
SHAPE OF UNIT AND PATTERN OF TRAN	NSECT Rd (300	=]
	=======================================	
<u>MPACTION (Heavy)</u> - Any place where finite avily and lightly used depending on amoun <u>COMPACTION (Light)</u> - Any other area not in <u>UNDISTURBED</u> - No signs of any machinem <u>DISPLACED</u> - Any place soil has been mound <u>SMZ</u> - Include within transect if within harvest	uture vegetative growth will be significantly nt of compaction related to self moisture), la ncluded in heavy COMPACTION or UNDIS y or skidding acitvity. nded by machinery, also include in heavy o	impacted, i.e., skid trails (both andings, and other impacted areas. STURBED.

					•		•						
				TRANS	ECT SU	MMARY	FORM	+ 4	Transec	5	TOT	ALS	
			Transec	t 2	Transe		Transec Pts.	<u> 4 </u> <u> % </u>	Pts.	_%	Pts.		_
F	Transect Pts.	%	Pts.	%	Pts								
AVY					+	T		ļ	+		1		
SHT		ļ		+	+				+	+	1		
NDISTURB			+							+			
TALS	+									+			
DISPLACE	D												
EROSION										-+			
PUDDLED										-+			
SMZ													
ROCK												_	
BURN P	ILES							·			· · ·	<u>.</u>	

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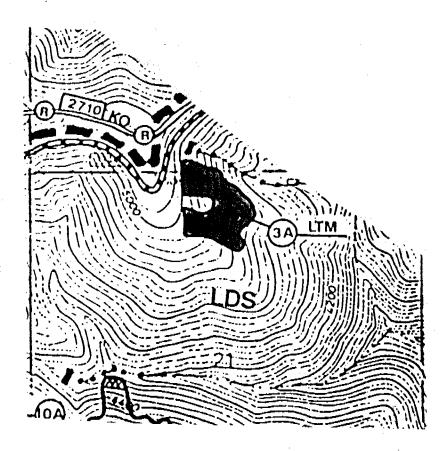
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09/27/1999 12201030 Cabinet - Red Devil Unit 3A **KOOTENAI NATIONAL FOREST** 72201030 SOIL DISTURBANCE MONITORING FORM 1999 ATE CUTTING METHOD In tor-South line. SKIDDING METHOD SERVER infle dedicated dispersed TRICT If tractor: not done SALE/S.A. HAZARD TREATMENT Unit # SILVICULTURAL TRMT Acres 12 H.T. OPERATION PERIOD Aspect I Slope Location Elevation I -5000 700 COMPACTION (Heavy) COMPACTION (Light) UNDISTURBED DISPLACED EXCAVATED SKID TRAIL SMZ/ROCK COMMENTS (Include soil, geology, organic debris, other pertinent info) ritar to Unit 3B from the stand poin excontor + kon shull 1 Hartored SHAPE OF UNIT AND PATTERN OF TRANSECT Unt 3A \mathbf{N} PACTION (Heavy) - Any place where future vegetative growth will be significantly impacted, i.e., skid trails (both reavily 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. 10/99SMZ - Include within transect if within harvest unit.

ſ	Transect	1	Transec	xt 2	Transe	ot 3	Transe	ct 4	Transec		тот	
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	<u>%</u>
HEAVY									<u> </u>			
LIGHT	· ·			·								
UNDISTURB									<u> </u>			
TOTALS				. 			ļ		<u> </u>		· ·	
				ļ					<u> </u>			
DISPLACED							<u> </u>					
EROSION												
PUDDLED											-	
SMZ				<u> </u>								
ROCK	,											
BURN PILES				· · ·								

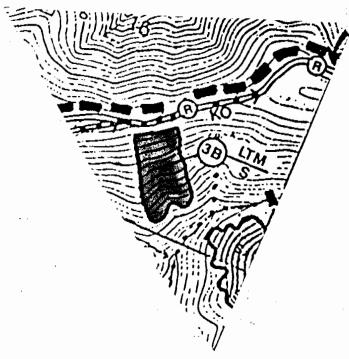


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12201031	KOOTENAI NATIONAL FOREST 09/27/1999 Cabinet - Red Devil Unit 3B SOIL DISTURBANCE MONITORING FORM 72201031
SATE Server Kuenn STRICT Cobinet SALE/S.A. Red David Unit # 3 B Acres H.T. WH/ Chin	1999 en/Numskidding METHOD If tractor: HAZARD TREATMENT IG SILVICULTURAL TRMT OPERATION PERIOD SILVICULTURAL TRMT OPERATION PERIOD Aug-Sept 1998
Slope <u>35-50</u> Location <u>upper</u> COMPACTION (bleatvy)	$\frac{\text{Aspect } }{\text{Elevation } } \frac{5E}{4502 - 4950}$
COMPACTION (Light)	
DISPLACED	
EXCAVATED SKID TRAIL	
Consistently to be This is a resid	have someone staying of the optimition to frain. Ne area was fairly steep also hal soil w/ volcanic and surface.
SHAPE OF UNIT AND PATTERN	OF TRANSECT
	N old road
· · · · · · · · · · · · · · · · · · ·	
neavily and lightly used depending <u>COMPACTION (Light)</u> - Any other UNDISTURBED - No signs of any	been mounded by machinery, also include in heavy or light compaction.

	Transect	1	Transect	2	Transect	3	Transect	4	Transect		TOT	
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
D HEAVY												
s LIGHT	· ·- ·											
u UNDISTURB												
b TOTALS												
DISPLACED												
EROSION											·······	
PUDDLED												
SMZ												
ROCK												
BURN PILES		•.										

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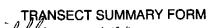
122-03-090 1992 Sale 08/18/1998 **KOOTENAI NATIONAL FOREST Rexford - Sutton Creek** SOIL DISTURBANCE MONITORING FORM Unit 12 12203090 CUTTING METHOD DATE SKIDDING METHOD BSERVER dedicated ISTRICT If tractor: dispersed бß HAZARD TREATMENT Riles along SALE/S.A. Å in -11 SILVICULTURAL TRMT Unit # Acres 35 < \mathcal{P} **OPERATION PERIOD** H.T. Southorn side ; SAF Clun or Sur Slope 5150 Location - 5400 utt **COMPACTION (Heavy)** ζ COMPACT/QN (Light) 80 UNDISTURBED <u>52</u> 10 DISPLACED Alle EXGAVATED SKID -6: mid-120 SMZ/POCK Burn COMMENTS w .8000 CW N 11/1 SHAPE OF UNIT AND PATTERN OF TRANSECT

Rd 7993C.2 OMPACTION (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 acitvity. DISPLACED - Any place soil has been mounded by machinery, also include in heavy or light compaction. SMZ - Include within transect if within harvest unit.

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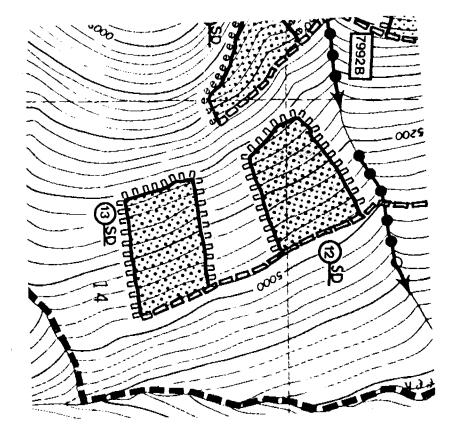
7/97

	۸			TRANS	SECT SU	JMMARY	FORM					
	lou	rer_	mi	<u>edle</u>		per_						
	Transec	t 1	Transec		Transe		Transe		Transec		тот	
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	·
D HEAVY i	33	9	32	10	16	5					81	8
s LIGHT t	172	48	182	55	180	59					534	54
u UNDISTURB r	152	43	114	35	107	35					373	38
b TOTALS	351	120	328	100	303	100					<u>988</u>	100
DISPLACED	17	5	9	3	9	3					35	3,5
EROSION	6	15	5	1,5	2	1		: 			13	/
PUDDLED	0	Ð	\mathcal{O}	0	0	ð					0	0
SMZ	∂	0	0	C)	Ó	\mathcal{O}_{\perp}					0	\overline{C}
ROCK	0	0	D	(0)	$\overline{\mathcal{O}}$	0				ļ. <u> </u>	C	0
BURN PILES	1	2	0	0	\bigcirc	0] 			7	<1



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122-03-091 08/18/1998 1992 Rexford - Sutton Creek P.C. **KOOTENAI NATIONAL FOREST** Unit 13 SOIL DISTURBANCE MONITORING FORM 12203091 X • 18 • 98 CUTTING METHOD DATE AL SKIDDING METHOD BSERVER uenne Ľ Kin dedicated STRICT If tractor: dispersed 1 -NUN downnilles along edge HAZARD TREATMENT BB SALE/S.A. M m SILVICULTURAL TRMT Unit # 13 Acres 192 OPERATION PERIOD H.T. SA ' ø. cummer Slope Location utton COMPACTION (Heavy) 24 13 COMPACTION (Light) 6 1_5 \mathcal{O} UNDISTURBED 144 102 15B DISPLACED upper: 5 idle EXCAVA lower 10 -EMZ/ROCK BUNN lor uppe COMMENTS otan win lower 14 g/ wint, specially. An Y--reflected in nolol NO Mil 6 dune hom Cil <u>lek</u> SHAPE OF UNIT AND PATTERN OF TRANSECT CWI DMPACTION (Heavy) - Any place where future vegetative growth will be significantly impacted, i.e., skid trails (both

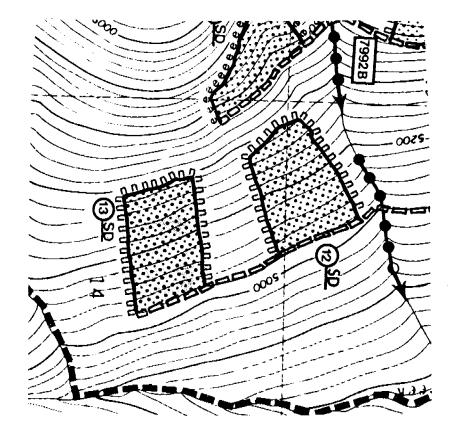
<u>MPACTION (Heavy)</u> - Any place where future vegetative growth will be significantly impacted, i.e., skid trails (both reavily and lightly used depending on amount of compaction related to soil moisture), landings, and other impacted areas. <u>COMPACTION (Light)</u> - Any other area not included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

7/97

	Ven	in the	-	TRAN	1	JMMARY	FORM					
	Transec	t 1	Transec	xt 2	Transe	ot 3	Transe		Transec		тот	
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	<u>%</u>
D HEAVY i	24	9	15	5	3	1					42	5
s LIGHT t	111	40	165	59	130	45					406	48
u UNDISTURB r	144	51	102	36	158	54					404	47
b TOTALS	219	100	282	100	291	100			,		852	100
									ļ			
DISPLACED	31	11	8	3	5	2					44	5
EROSION	6	2	0	0	\mathcal{O}	Ø					6	۷/
PUDDLED	0	0	0	ن	0	C)					0	C
SMZ	C	Ø	Ċ	C	0	Ô					$\overline{\mathcal{O}}$	\mathcal{O}
ROCK	0.	\mathcal{O}	\mathcal{O}	C)	\bigcirc	$\hat{\mathcal{O}}$					0	ð
BURN PILES	7	2.5	4	1	1						12	1

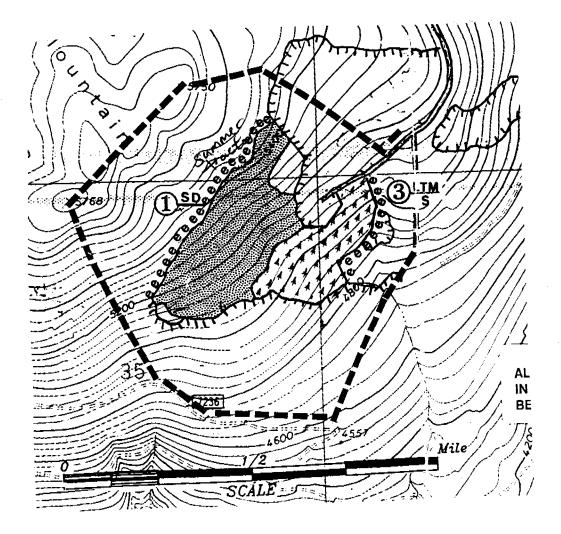
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09/29/1998 Deuferde Hanner Gerle Fire Ocherne	Mile Seli	:	101-04-084
Rexford - Upper Scalp Fire Salvage Unit 1		EODEST	*
10704084	SOIL DISTURBANCE MONI		
10704084	SOLE DISTORBANCE MONI		
TE 9/29/98	CUTTING METHOD	CLIPHER &	HAND SAW
RVER K. KINDEL	SKIDDING METHOD		
AICT D-1	Pusse If tractor:	dispersed >	dedicated
S.A. UPPER SCALDE	RC SALV HAZARD TREATME	NT	·····
unit # / Acres (a	SILVICULTURAL TF	EATMENT SPE	CIES DESIGNATION
H.T. SEE NOTES SAFI	Vacc OPERATION PERIC	DD WINTER	
	PECT Elevation 515	0-5450'	
OMPACTION (Heavy) M B B	• <u>(3)</u>		
	(24)		
	(2)		
	NEVERSE E SEE		-
	(489) / BARRAR		A R R R R R R R R R R R
NDISTURBED DE DE DE DE DE DE DE DE DE DE DE DE D			
	A B D B B B B B B B B B B B B B B B B B	S B B B % (205	
ISPLACED \$ (8) / X	B : (12)		
ISFLACED 8(8)/8			
XCAVATED SKID TRAIL			
MZ/ROCK × G / :: ($\overline{\mathcal{Y}}$ / : $\overline{\mathcal{Q}}$		
	4.0		,
OMMENTS EROSIDA : (2)			
SUR ALDINE FIR, PINE GRASS,			XIGH LOWIER PORTION
OF UNIT HAY BEEN RECO			RY ADEQUATE ;
SOIL VERY ROCKY ; MA		OR NO ASH ;	
LINIT ; PLENTY OF 3"+			EN BURNED ; THIS
5 AN OLDER WHIT AL	50; ALREADY REVEGING	;	······································
	· · · · · · · · · · · · · · · · · · ·		
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HAPE OF UNIT AND PATTERN C	TRANSFOT		
TAPE OF UNIT AND PATTERING	JE TRANSECT		
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	1 ib		
OMPACTION (Heavy) - Any place	where future vegetative growth	will be significantly imp	anotod Lo okud troilo (both
			Jacled, i.e., skid trails (both
<u>wir AUTION (Light)</u> - Any other ar	n amount of compaction related	to soil moisture), land	ings, and other impacted areas
	ea not included in heavy COMF	to soil moisture), land ACTION or UNDISTU	ings, and other impacted areas
IDISTURBED - No signs of any m	ea not included in heavy COMF achinery or skidding acitvity.	ACTION or UNDISTU	ings, and other impacted areas IRBED.
NDISTURBED - No signs of any m SPLACED - Any place soil has be MZ - Include within transect if within	ea not included in heavy COMF achinery or skidding acitvity. en mounded by machinery, also	ACTION or UNDISTU	lings, and other impacted areas IRBED.

7/97

	10000	<i>م</i> پ	ka i t	TRANS		JMMARY ◦ p € r	FORM					
	Transec		Transec	t 2	Transe		Transe	ct 4	Transe			ALS
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	<u>%</u>
D HEAVY i	31	4.2%	24	3.5%	2	1, z %					57	4 %
s LIGHT t	489	65.7%	449	66.2%	96	56.5%					1034	65%
u UNDISTURB r	224	30.1%	205	30.2%	72	42.4%				· · ·	501	31 %
b TOTALS	744	/00	678	100	(70	100					1592	100
		-										
DISPLACED	8	1	6]	0	0					14	1
EROSION	2	4,5	\mathcal{O}	0	Ó	\bigcirc					2	2.5
PUDDLED	0	\mathcal{O}	T	Ũ	$\widehat{\mathcal{O}}$	Ō					0	Ø
SMZ	C	O	\mathcal{O}	\bigcirc	\mathcal{O}	$\widehat{C}^{)}$					0	0
ROCK	6	21	<u>्</u>	21	z	1					12	21
BURN PILES	D	で	\mathcal{O}	U	\mathcal{D}	Õ					0	0



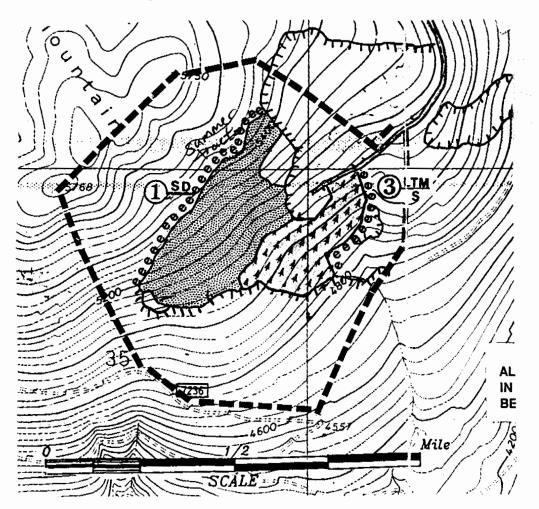
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Rexford - Upper Scalp Fire Salvage	107-04-005
	<u>~</u>
Unit 3 KOOTENAI NATIONAL FO	
10704085 SOIL DISTURBANCE MONITOR	
DATE 9/25/98 CUTTING METHOD	CLIPPER
BSERVER KINDEL SKIDDING METHOD	<u>SKYLINE TREE</u> dispersed dedicated
SALE/S.A. UPPER SCALP FIRE SALVING HAZARD TREATMENT	dispersed dedicated
Unit # 2 Acres 33 SILVICULTURAL TRMT	LEAVE TREE MARK
H.T. SEE NOTES SAF VASC OPERATION PERIOD	WINTER LOG
Slope South EAST ASPECT ER 485.	
Location 7206 D OFE BUILDER / SULLIVAN CUT COMPACTION (Heavy) 2	
3	
2	
COMPACTION (Light)	
, 2:2	
UNDISTURBED	
36	
DISPLACED 115/5	
SMZ(ROCK 5 ON 3" TRANSECT	
	DWARE HUCLEBERRY, LUNNIKINNICK; PUES ARE ON LOWER (FILL SLUPE)
	PILES ARE ON LOWER (FILL SLUPE) EVIDENT CLIPPER COMPETION ; THIS
UNIT HAS ALDEADY BEEN BURNED AND IS WALL GR	OWN OVER ; FIRELINES HAVE BEEN
$ \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad$	
REJABED SEEDED ; ~ 50% OF HIO BARS ARE FI	
GROWN OVER ENOUGH AS NOT TO BE A PROBLEM; L	ITTLE OR NO ASH LAYER; THICK
CONT LAYER ENOUGH AS NOT TO BE A PROBLEM; L ROOT LAYER ON TOP (1"); SOME TREE TIPPING PEON	ITTLE OR NO ASH LAYER; THICK
BODT LAYER ENOUGH AS NOT TO BE A PROBLEM; L RODT LAYER ON TOP (1"); SOME TREE TIPPING RESH PLENTY OF 3" + WOODY DEBRIS; THERE IS A	TTTLE OR NO ASH LAYER; THICK THIS IN SAL DISTACEMENT (ISOLATED);
GROWN OVER ENOUGH AS NOT TO BE A PROBLEM; L RODT LAYER ON TOP (1"); SOME TREE TIPPING RESH PLENTY OF 3" + WOODY DEBRIS; THERE IS A L	TTTLE OR NO ASH LAYER; THICK THIS IN SOL DISTACEMENT (ISMATED); XET AREA BELOW THE REGEN UNIT
CONT OVER ENOUGH AS NOT TO BE A PROBLEM; L RODT LAYER ON TOP (1"); SOME TREE TIPPING RESH PLENTY OF 3" + WOODY DEBRIS; THERE IS A L	TTTLE OR NO ASH LAYER; THICK THIS IN SOL DISTACEMENT (ISOLATED); XET AREA BELOW THE REGEN UNIT
GOUN OVER ENOUGH AS NOT TO BE A PROBLEM; L RODT LAYER ON TOP (1"); SOME TREE TIPPING RESH PLENTY OF 3" + WOODY DEBRIS; THERE IS A THAT SHOWLD HAVE BEEN AN SMZ-; UNIT HAS	TTTLE OR NO ASH LAYER; THICK THIS IN SOL DISTACEMENT (ISMATED); XET AREA BELOW THE REGEN UNIT
GROWN OVER ENOUGH AS NOT TO BE A PROBLEM; L RODT LAYER ON TOP (1"); SOME TREE TIPPING RESH PLENTY OF 3" + WOODY DEBRIS; THERE IS A	TTTLE OR NO ASH LAYER; THICK THIS IN SOL DISTACEMENT (ISMATED); XET AREA BELOW THE REGEN UNIT
GOUN OVER ENOUGH AS NOT TO BE A PROBLEM; L RODT LAYER ON TOP (1"); SOME TREE TIPPING RESH PLENTY OF 3" + WOODY DEBRIS; THERE IS A THAT SHOWLD HAVE BEEN AN SMZ-; UNIT HAS	TTTLE OR NO AND LAYER; THICK THIS IN SOL DURACEMENT (ISOLATED); XET AREA BELOW THE REGEN UNIT
GODIN OVER ENOUGH AS NOT TO BE A PROBLEM; L RODT LAYER ON TOP (1"); SOME TREE TIPPING RESIN PLENTY OF 3" + WOODY DEBRIS; THERE IS A L THAT SHOWLD HAVE BEEN AN SMZ-; UNIT HAS	LITTLE OR NO ASH LAYTER; THICK -THID IN SOL DISTACEMENT (ISOLATED); XET AREA BELOW THE REGEN UNIT ALREATY BEEN PLANTED.
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SUPPORT OF UNIT AND PATTERN OF TRANSECT	LITTLE OR NO ASH LAYTER; THICK -THID IN SOL DISTACEMENT (ISOLATED); XET AREA BELOW THE REGEN UNIT ALREATY BEEN PLANTED.
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SUPPORT OF UNIT AND PATTERN OF TRANSECT	TITLE OR NO ASH LAYER ; THICK THIS IN SOL DISTACEMENT (ISOLATED); XET AREA BELOW THE REGEN UNIT ALREADY BEEN PLANTED.
GROWN OVER ENOUGH AS NOT TO BE A PROBLEM; L ROUT LAYER ON TOP (1"); SOME TREE TIPPING RESIN PLENTY OF 3" + WOODY DEBRIS; THERE IS A THAT SHOWLD HAVE BEEN AN SMZ-, UNIT HAS STAPE OF UNIT AND PATTERN OF TRANSECT	TITLE OR NO ASH LAYTER; THICK THIS IN SOL DISTACEMENT (ISOLATED); XET AREA BELOW THE REGEN UNIT ALREATY BEEN PLANTED.
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<u>COMPACTION (Light)</u> - 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. SMZ - Include within transect if within harvest unit.

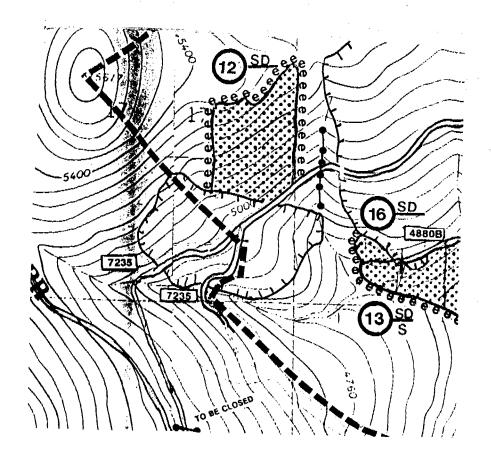
		r		1		Trance		Transe	ect 4	Transect	t 5	TOT	TALS
)	Transec		Transec		Transe			<u>ect 4</u>	Pts.	<u> </u>	Pts.	1 ALS
		Pts.	%	Pts.	%	Pts.	%	Pts.	70	FIS.	/0	FIS. ,	
D	HEAVY	2	1.3%	3	1.9%	2	0.9%					7	1 %
s t	LIGHT	129	85,4 %	120	75.5%	167	81.9%					416	81%
u r		20	13.2%	36	22.6%	_	17.2%					91	18%
b	TOTALS	151	100	159	100	2 54	100					514	100
							[
	DISPLACED	1	41	5	3	5	2					11	2
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_	SMZ	Û	0	0	O	0	0					0	0
	ROCK	0	0	0	0	5	コ					5	1
	BURN PILES		0	\square	\bigcirc	0	0					0	Ò



09/30/1998		
Rexford - Doyle Gulch Re-Ad	KOOTENAI NATIONAL FOREST 1995 131-02-104	
Unit 12	KOOTENAI NATIONAL FOREST 1993	
13102104	SOIL DISTURBANCE MONITORING FORM	
· · · ·		
DATE 9130198	CUTTING METHOD CLUPER	
BSERVER K. KINDEL		
STRICT D-1	Wostgen If tractor: dispersed dedicated	
SALE/S.A. DOYLE - GulCH		
Unit # <u>12</u> Acres	37 SILVICULTURAL TREATMENT SPECIES DESIGNAT	
Slope <u>South East</u> COMPACTION (Heavy) жа а		
		···· ···
88:		
	ISBRARD BEBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB	
JNDISTURBED KAR (29		
<u> </u>)	
B B :: (24)		
DISPLACED RE (9)/	BK (F) / BB · (21)	
XCAVATED SKID TRAIL		·.
SMZ/ROCK : (2) / ($(x, \overline{x}, \overline{y})$	
COMMENTS EROSION	(0) (:: (4) / : (2)	
- SING ALPINE FIR, ALDE HITS MAIN BOOD ON SOUT OR LATE FALL ; MAJOR FROMON SITES MAINLY IN	HEAST CORNER OF UNIT; LOTS OF RUTS - FARLY S MOISTURE IN UNIT WHEN WORK WAS BEING DONE & A I RUTTED AREAS; OLD UNIT; FUTLE AREA REVEL.	ETTE ;
HITS MAIN BOAD ON SOUT OR LATE FALL; MADOR ROSION SITES MAINLY IN 2 LANDING MAD SOME	THEAST CORNER OF UNIT; LOTS OF RUTS - FARLY S MOISTURE IN UNIT WHEN WORK UPS BEING DAVE & A I RUTTED AREAS ; OLD UNIT; FUTURE AREA REVEG.	ETTE ;
HITS MAIN ROAD ON SOUT OR LATE FALL ; MADOR ROSION SITES MAINLY IN R LANDING MAD SOME	THEAST CORNER OF UNIT; LOTS OF RUTS - FARLY S MOISTURE IN UNIT WHEN WORK UPS BEING DONE & A I RUTTED AREAS; OLD UNIT; FUTURE AREA REVEG. TRAVES; FEW HZD BARS ONLY ABOUT HALF EFFE	ETTE ;
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HITS MAIN ROAD ON SOUT RELATE FALL ; MADOR RODING SITES MAINLY IN RELANDING MAINLY IN RODUNG MAIN SOME COME RODUNG A BI	HEAST CORNER OF UNIT; LOTS OF RUTS - FARLY S MOISTURE IN UNIT WHEN WORK UPS BEING DONE & A I RUTTED AREAS; OLD UNIT; ENTIRE AREA REVEL. TRAILS; FEW M2D IBARS ONLY ABOUT HALF FFFE IT LIGHT ON 3" + WOODY DEBRIS;	ETTER ;
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HITS MAIN BOD ON SOUT RELATE FALL ; MADOR ROMONSTES MAINLY IN 2 LANDING MAD SOME 20ME RODUNG ; A BI	HEAST CORNER OF UNIT; LOTS OF RUTS - FARLY S MOISTURE IN UNIT WHEN WORK UPS BEING DONE & A I RUTTED AREAS; OLD UNIT; ENTIRE AREA REVEL. TRAILS; FEW M2D IBARS ONLY ABOUT HALF FFFE IT LIGHT ON 3" + WOODY DEBRIS;	ETTE ;
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HITS MAIN BOD ON SOUT RELATE FALL ; MADOR ROMONSITES MAINLY IN RELANDING MAINLY IN RELANDING ADD SOME COME RODUNIT AND PATTERN	HEAST CORNER OF UNIT; LOTS OF RUTS - FARLY S MOISTURE IN UNIT WHEN WORK UPS BEING DONE & A I RUTTED AREAS; OLD UNIT; ENTIRE AREA REVEL. TRAILS; FEW M2D IBARS ONLY ABOUT HALF FFFE IT LIGHT ON 3" + WOODY DEBRIS;	ETTE ;
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MITS MAIN BAD ON SOUT R LATE FALL ; MAJOR Reside SITES MAINLY IN R LANDING AND SOME COME RODUNG A BI HAPE OF UNIT AND PATTERN	HEAST CORNER OF UNIT; LOTS OF RUTS - FARLY S MOISTURE IN UNIT WHEN WORK UPS BEING DONE & A I RUTTED AREAS; OLD UNIT; ENTIRE AREA REVEL. TRAILS; FEW M2D IBARS ONLY ABOUT HALF FFFE IT LIGHT ON 3" + WOODY DEBRIS;	

<u>UNDISTURBED</u> - 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.

	low	en.	mi			UMMARY Lee	FORM					
	Transec		Transed	ct 2	Transe		Transe	ct 4	Transe	ct 5	TOT	TALS
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	0
D HEAVY i	39	12.3%	27	5.6%	25	5.1%					91	7.1%
s LIGHT t	249	78.5%	430	89.3%	443	90 %					1122	87.1%
u UNDISTURB r	29	9.1%	22	4.6%	24	4.9%					75	5.8%
b TOTALS	317		479		492						1283	
DISPLACED	19	6)9	3	21	ч					59	4,5
EROSION	10	3	4	21	Z	41					16	,
PUDDLED	19	6	16	3	12	2					47	4
SMZ	6	Ø	0	0	0	0					0	0
ROCK	2	41	o	0	7	1					9	21
BURN PILES	0	0	0	0	0	õ					0	0

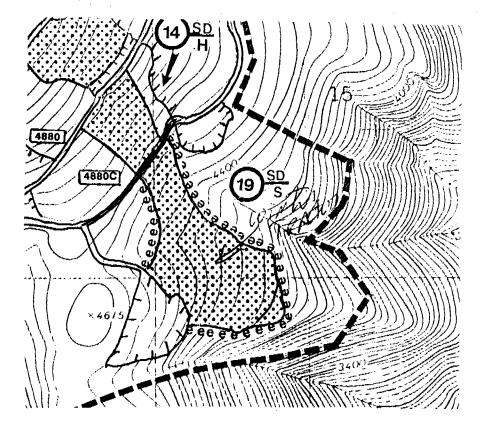


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Rexford - Doyle Gulch Re-Ad Unit 19		
	1995 KOOTENAI NATIONAL FOREST	
13103105	SOIL DISTURBANCE MONITORING FORM	
DATE 9130198 DBSERVER K.KINDEL	CUTTING METHOD CLIPPER HAND SAW	
	Wookan If tractor: dispersed dedicated	
SALE/S.A. <u>Doyle - Gwych</u> Unit # 19 Acres	RE-AD HAZARD TREATMENT SPECIES DESIGNAT	
H.T. SUBALPINE FIR	OPERATION PERIOD WINTER	
Slope EAST South FAST COMPACTION (Heavy) K (8)	Elevation 41-4600'	
K2		
<u>ඉමම්මීමම සම මීමීමීමම</u> <u>ඉල ලබා මීමීම මීමීමීම මීමීමීම</u> UNDISTURBED <u>මූමුකම</u> මීම	A :- (3)	8 9 :: (29 8 8 8 8 8
DISPLACED X () (::	(4)	
EXCAVATED SKID TRAIL		· · · · · · · · · · · · · · · · · · ·
SMZ/ROCK	UN 200 TEANSECT	
COMMENTS INDERSTOR	ALDER , PINE GRASS , KINNIKINNIK ; EVERY THING SKIDDE	·) ***
	HER OF UNIT; OLD UNIT; AT LEAST A YEAR SINC	
BURNED ; THICK ROOT LAT	LER IN WAIT ; WHAT REMAINS OF FIRELINE HAS A	DEQUATE
		"+
1. (CODY LEGERS IS SUFFI	ICIENT: NO LANDING PILES: ENTIRE UNIT IS REVEG	ITATING :
		ERBENDICUL
		ERBENDICUL
NLY TWO TRANSECTS B		DERBENDICUL
NLY TWO TRANSECTS B		
NLY TWO TRANSECTS B		
NLY THO TRANSECTS B TO SLID TRAILS ;	BECAUSE UNIT WAS LONG AND NARPOLD WHEN GOING F	
NLY TWO TRANSACTS B	BECAUSE UNIT WAS LONG AND NARPOLD WHEN GOING F	
NLY TWO TRANSECTS B	BECAUSE UNIT WAS LONG AND NARPOLD WHEN GOING F	
SHAPE OF UNIT AND PATTERN	BECAUSE UNIT WAS LONG AND NARPOLD WHEN GOING F	
SHAPE OF UNIT AND PATTERN	OF TRANSECT	
TRANSECT	BECAUSE UNIT WAS LONG AND NARPOLD WHEN GOING F	s (both

<u>UNDISTURBED</u> - 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.

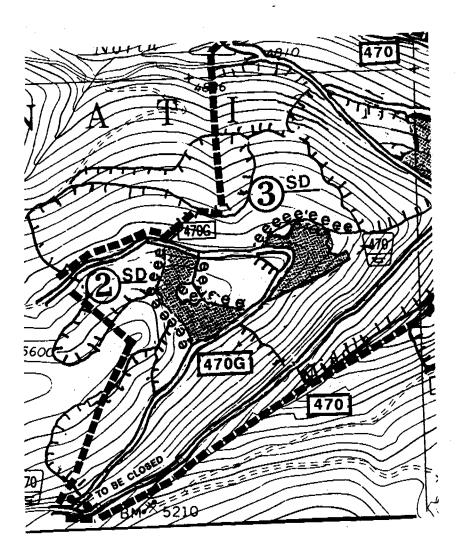
	Transec	t 1	Transec	ct 2	Transec	ct 3	Transe		Transect			ALS
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	<u>°</u>
D HEAVY i	8	2.2%	15	2.2%							23	2.2%
s LIGHT t	294	80.5%	532	77.8%					<u> </u> [826	78.7%
u UNDISTURB r	63	17.3%	137	23 %							200	19.1%
b TOTALS	365	100	684	10-0		<u> =</u>					1049	10-0
DISPLACED	7	2	ન	21							11	1
EROSION	0	0	0	0							0	0
PUDDLED	0	Ø	0	<u>م</u>							0	0
SMZ	0	0	0	0				<u>-</u>	ļ		0	0
ROCK	ð	0	1	1,5								۷.1
BURN PILES	0		0	6							0	0



10/01/1998 Rexford - Summit Salv Unit 2 10302098 DATE BSERVER	1992		i i s	103-02-	CYL
Unit 2 10302098 DATE BSERVER	1992	KOOTENAI NATIONA	18	102	-
DATE BSERVER	1997 sc	KOOTENAI NATIONA			
DATE BSERVER	SC		AL FOREST	Stoken open processed as	ntion
		DIL DISTURBANCE MON		STOREN OF	1 de la
				processed a	siump
	10/1/98	CUTTING METHO) CLIPPER	5 HAND	
	K. KINDEL	SKIDDING METHC	D	RTS / Hi.	trach
	Eme	If tractor:	dispersed	x dedicate	the second second second second second second second second second second second second second second second se
SALE/S.A.	SUMMIT SALVA				
Unit # 2	Acres 10	SILVICULTURAL T	REATMENT	PECIES DESIGNAT	TION
H.T. SEE	Notes SAF/Me	Je OPERATION PERI	10D required u	rinter started 1	bu: 97 finis
Slope Ridge To	2 1/2 SOUTHEAST	1/2 NORTH Elevation	\$ 5400-53	5501	
COMPACTION (H	eavy) <u>:: (4)</u>		·		
	<u> </u>			······	
	: (3)	/ :: (4)		~~~ <u>~</u> ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
COMPACTION (Li				(163)	
	NRADAN				
NABBB	(58)	<u> </u>		BB (19)	· · · · · · · · · · · · · · · · · · ·
UNDISTURBED	<u>BB:: (24)</u>	······································			
	<u>BB: (23)</u>	/		· · · · · · · · · · · · · · · · · · ·	
DISPLACED	BBX 26	33: (22)	. (2)		
	(2) / (2)				
EXCAVATED SKIL		<u></u>	····		
SMZ/ROCK					
		······································	a second s	<u> </u>	··
FUNCTIONAL, MAIN COMPAC	TION 15 ON TR	AILS AT EDGE OF		LISE IN GOOD BE CONSIDERED	SHAPE ; DEDKATED
IT SEEMS EVI	ERYTHING WAS SK	IDDED TO THE ED	JOES & THEN	DOWN ;	
OVERALL U	INIT LUNCS GOUL	S FOR COMPACTION	N BUT THE	BARN INTENSIT	V . 11-
	ON SOUTH SIDE				
SHAPE OF UNIT A	ND PATTERN OF TR	ANSECT			
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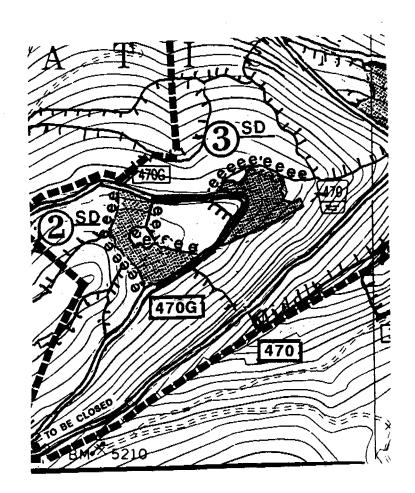
<u>COMPACTION (Light)</u> - Any other area not included in heavy COMPACTION or UNDISTURBED. <u>UNDISTURBED</u> - No signs of any machinery or skidding acitvity. <u>DISPLACED</u> - Any place soil has been mounded by machinery, also include in heavy or light compaction. <u>SMZ</u> - Include within transect if within harvest unit.

	Transect	t 1	Transec	xt 2	Transe		Transe		Transec			ALS
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	<u> </u>
D HEAVY i	4	2.1%	4	2.5 %	3	3.4%	4	2.8 %			15	2.6 10
s LIGHT t	163	85.3%	136	83.4 %	58	66.7 %	119	82.1%			476	81.2%
u UNDISTURB	24	12.6%	23	14.1%	26	29.9 %	22	15.2%			95	16.2%
b TOTALS	191		163		87		145				586	
DISPLACED	2	·)	2		<u>ਪ</u>	5	3	2				2
EROSION	D	Ø	0	0	0	0	0	0			0	0
PUDDLED	υ	6	0	• ;	D	5	0	Ο			0	0
SMZ	0	0	U	0	<u> </u>	0	0	0			O	0
ROCK	6	0	0	0	D	2	б	0			0	0
BURN PILES	0	0	0	0	0	0	0	0			0	0



09/29/1998			<u>.</u>	103-02 Stoken of	-099
Rexford - Summi	t Salvage		$= s_{-1,0} d^2 p v$		- A
Unit 3	٢	OOTENAI NATIONAL	FOREST	Stoken of	eration
10302099		DISTURBANCE MONIT			3 7 .
				processed ,	t stump
DATE	10/1/98	CUTTING METHOD	CLIPPE	2 THAND	······································
BSERVER	K, KINDER	SKIDDING METHOD			RTS/Hitroca
	D-1 Emery	If tractor:	dispersed	X dedic	cated /
SALE/S.A.	SUMMIT SALVAGE	HAZARD TREATMEN		·····	
Unit # <u>3</u>	Acres8	SILVICULTURAL TRE		SPECIES DES	16NATION
	NE AF WIT # 2	OPERATION PERIO		& winter	finish Dec 97
Slope EAS		Elevation: 53	550 A5450	21	
COMPACTION (Heavy) 🛛 🛪 🗙 (27)	·····			
	X R (20)		- ·· ·		
COMPACTION (Light) <u>BBBBBBBBBBBB</u> BBB	BRR DERESTRE			BBBB × 370 B × 315
UNDISTURBED	BBK (28)			3	· · · · · · · · · · · · · · · · · · ·
	R (i)				
DISPLACED	×.	······································			
EXCAVATED SH		· · · · · · · · · · · · · · · · · · ·			
SMZ/ROCK			·····		
				<u> </u>	······································
COMMENTS	BURNED THE WEEK	BEFORE ; BURN 1	IERY WITCHSI	E DOWN TO	BARE SAIL :
- <u>3"+ WNDY</u>		ISURALD UP : QU			
STRAIGHT DON					
15 FROM RU		AND PLACES TH		ET TURNED W	
	MANY LEAVE TREE			LPORT LOO	•
Surger Contraction of the second second second second second second second second second second second second s					
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SHAPE OF LINIT	AND PATTERN OF TRANS	SECT	<u></u>		
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TRANSE	c7	//			
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	leavy) - Any place where futu	ire vegetative growth wi	il be significant	vimnacted i.e. eki	d trails (both
	used depending on amount				
	ight) - Any other area not inc				imputicu aleas.
	No signs of any machinery c			and a second second second second second second second second second second second second second second second	
	y place soil has been mound		clude in heavy	or light compaction.	
	nin transect if within harvest u				7/97
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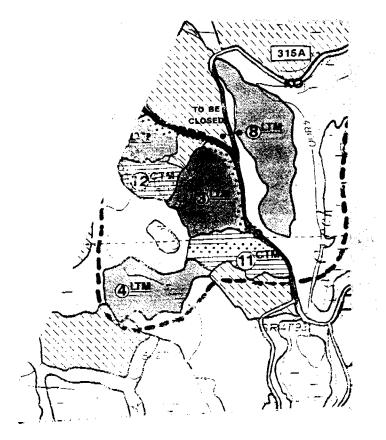
	Transec	Transect 1		Transect 2		Transect 3		Transect 4		5		ALS
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	<u> </u>
D HEAVY i	27	6.3%	2=	5.8%							47	6.1%
s LIGHT t	376	87.2%	315	91.3%							691	89 %
u UNDISTURB r	28	6.5%	10	2.9%							38	4.9 %
b TOTALS	431		345								776	
DISPLACED	11	3	9	3							20	3
EROSION	0	0	Ο	U							0	\mathcal{O}
PUDDLED	0	Э	D	0							0	0
SMZ	0	υ	0	0							0	0
ROCK	0	0	б	0							0	0
BURN PILES	\mathcal{O}^{*}	υ	0	0							0	0



07/29/1998 Fortine - Sunday Junction 346 EB 055 Unit 3 **KOOTENAI NATIONAL FOREST** 34603055 SOIL DISTURBANCE MONTORING FORM CUTTING METHOD DATE SKIDDING METHOD BSERVER dedicated If tractor: dispersed STRICT ernan BB - Cool HAZARD TREATMENT chanel SALE/S.A. tim SILVICULTURAL TRMT Unit # A¢r,∉s 3 seedtr OPERATION PERIOD . H.T. MP Slope Bedroi el Location -e-COMPACTION (Heavy) 5 ner 80 COMPACTION (Light) 80 230 UNDISTURBED M 260 Ξ DISPLACED • 1 • 4 EXCAVATED SKID TRAIL SMZ/ROCK COMMENTS 71 C 200d anno nees Good SHAPE OF UNIT AND PATTERN OF TRANSECT 3 OMPACTION (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 acitvity. 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.

	٨			TRANS	SECT SU	MMARY	FORM					
	low	<u>~</u>	Mag				1		T		тот	
	Transect		Transec	t 2	Transec Pts.	<u>t 3</u> %	Transec Pts.	<u>t 4</u> %	Transect Pts.	<u>5</u> %	Pts.	<u>ALS</u>
D HEAVY	Pts.	x %	Pts.	2		/0			1 (3.	<u> </u>	10	2
s LIGHT t	80	25	80	23							160	24
u UNDISTURB r	230	73	260	75							490	74
b TOTALS	3/5	100	345	100							660	100
DISPLACED	3	· /+	0	0							3	21
EROSION	4	1	0	0							4	<u> </u>
PUDDLED	0	0	0	0							0	0
SMZ	0	0	б	0			-			m	0	0
ROCK	0 - 2	0	D	0							0	D
BURN PILES	0	0	0	0							0	D



07/29/1998 346-7-37 Г 346-02-044 29 Fortine - West Sunday Unit 5 KOOTENAI NATIONAL FOREST 34602044/34607037 SOIL DISTURBANCE MONITORING FORM and t. 12. bunche **CUTTING METHOD** DATE SKIDDING METHOD BSERVER dedicated If tractor: dispersed STRICT m BB (cool HAZARD TREATMENT SALE/S.A. Sunday SILVICULTURAL TRMT Sendfree Unit # Acres Clun OPERATION PERIOD winter me H.T. Singeh Firmat Slope 55% Location turin sla COMPACTION (Heavy) 3 COMPACTION (Light) 106 92 UNDISTURBED NW 388 366 DISPLACED **EXCAVATED SKID TRAIL** SMZ/ROCK - covered more than 95% of area but much of du COMMENTS BB was cool 4 laner stell in tack men roances and com ing Ter 000 in SHAPE OF UNIT AND PATTERN OF TRANSECT oll failures

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

	low	er_		per	· · · · · · · · · · · · · · · · · · ·		····		·			
	Transect		Tránsec		Transect		Transec	<u>t 4</u> %	Transect	<u>5</u> %	TOT Pts.	<u>ALS</u> %
	Pts.	%	Pts. '	%	Pts.	%	Pts.	70	Pts.	70	F15.	/0
D HEAVY i	6	1	3	1					-		9	1
s LIGHT t	106	21	92	20		· · ·					198	21
u UNDISTURB r	388	78	366	79							754	78
b TOTALS	500	100	461	100					<u> </u>		961	100
DISPLACED	0	Ø	0	0					3	÷ .	0	D
EROSION	0	0	0	Ø							0	0
PUDDLED	0	Θ	Ø	0							0	0
SMZ	0	D	0_	Ø							0	0
ROCK	0	0	0	D							0	0
BURN PILES	0	0	0	0							0	0

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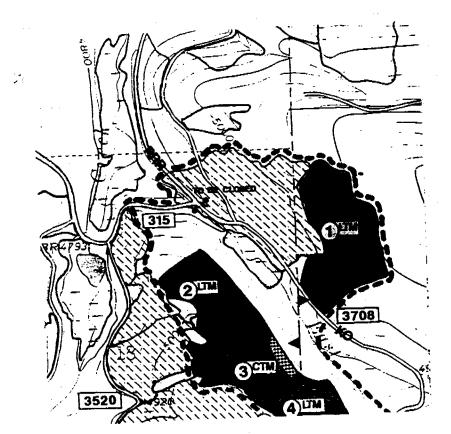
TRANSECT SUMMARY FORM

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_09/24/1998 346-04-044 Fortine - East Fork 346 - 4 - 44 Unit 1 34604044 KOOTENAI NATIONAL FOREST SOIL DISTURBANCE MONITORING FORM Fellesbuncher 24, 1998 **CUTTING METHOD** MATE SKIDDING METHOD BSERVER enn dedicated dispersed If tractor: m DISTRICT Fort spring '99 HAZARD TREATMENT 3 **B** SALE/S.A. East elderman tork +DF SILVICULTURAL TRMT 138 Acres Unit # /<u>Xele</u> OPERATION PERIOD SAF 1LIDO -SAF H.T. Slope 15-40 SU. Ele! Location Lower 1/3 2 COMPACTION (Heavy) 🖉 🕰 包耳口 XAL 6 20 $\cdot \cdot$ COMPACTION (Light) **:**185 XXX 240 5 UNDISTURBED DO DO DO L 6 58 136 á DISPLACED \boxtimes men: 10 12 ! X **EXCAVATED SKID TRAIL** uppe 3 -SMZ/ROCK live A uppe Ś noc COMMENTS A.A. o on Tra 0 Ly -73 bach and sare 0 Un C I stor to for Soul o u 01 an 0 Ľ4 ra. Yra SHAPE OF UNIT AND PATTERN OF TRANSECT 77. Fring . 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 acitvity.

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

	D.	Δ.		6								
F	<u>low-</u> Transect		Transect	t 2	Transec		Transe		Transect 5			
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
D HEAVY	22	11	28	10	24	6					76	9
s LIGHT t	120	61	185	68	240	60					545	62
u UNDISTURB	56	28	58	22	13 6	34					250	29
b TOTALS	198	100	271	100	402	100	i	 	<u> </u>		811	100
Excavated	4	2	0	0	7	2	-			 	11	
DISPLACED	15	8	4		10	2	<u> </u>			· · ·	29	3
EROSION	3	1	0	0	0	0					3	L.5
PUDDLED	0	0	D	D	0	0		ļ		<u> </u>	0	0
SMZ	0 0 0				0	0					0	0
ROCK	0	0	0	0	5	1				ļ	5	21
BURN PILES	0	0	0	6	D	6	<u> </u>	<u> </u>			0	0



	9:24.98 Kenny Kin	<u>ol</u> skii	TING METHOD DDING METHOD tractor:	dispersed	dedicated
SALE/S.A.	/	HAZ	ARD TREATMENT	·	
Unit #	Acres		VICULTURAL TRM1	ſ <u>`</u>	
Slope		Or 1			· · · · · · · · · · · · · · · · · · ·
	N (Heavy), 🔀 🖬 🕅	ha l			
		K (F) ([49		
COMPACTION	3 西京区 154 N (Light) + 123 友了 15	(29) বাস্বাস্বাস্বাস্বা		(13)	
	2 2 2 2 2 2	NXX XX	ANGAAN		· (9) (516)
UNDISTURBE	B B B B B B B B B B B B B B B B B B B	· /- \/		<u> </u>	(195)
		(42)			
DISPLACED				(21)	
	((3)		
EXCAVATED	SKID TRAIL	5/20 fs		<u></u>	
SMZ/ROCK					
COMMENTS	EROSTIN ::	alat	0 3		
COMMENTS	COLAR 10	3/2013	-@		· · · · · · · · · · · · · · · · ·
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·		F TRANSECT			
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SHAPE OF UN	IT AND PATTERN C				
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SHAPE OF UN	IT AND PATTERN C			272 390	
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SHAPE OF UN		7 290		272 390 272 272 118	
SHAPE OF UN		7 290		272 390 272 272 118	
SHAPE OF UN		7 290		272 390 272 118	
SHAPE OF UN		7 290		272 390 272 118	
SHAPE OF UN		7 290		272 390 272 118	
SHAPE OF UN		7 290		272 390 272 118	

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

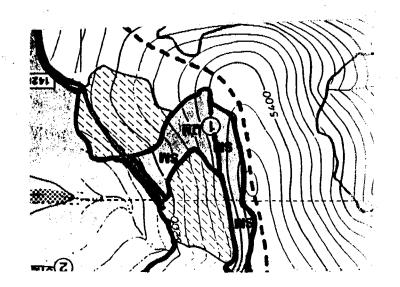
	Transect	1	Transect	2	Transec	t 3	Transe	ct 4	Transec	t 5_	TOT	ALS
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	<u>%</u>
D HEAVY i	28		39		29						96	
s LIGHT t	130		,91		195						516	
u UNDISTURB r	52		42		123						217	
b TOTALS											8000	
								• .·				
DISPLACED	14		10		7						31	
EROSION	3		0		0					-	3	
RUDDLED Skilt	6		0		7						12	
SMZ												
ROCK												
BURN PILES												· - ·

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829 965 829 965 329

09/28/1998 346-02-46-3-49 Fortine - Suntop Unit 1 KOOTENAI NATIONAL FOREST 34603049 SOIL DISTURBANCE MONITORING FORM hand + CUTTING METHOD **ATE** SKIDDING METHOD D-6 SERVER dedicated If tractor: ซโรTRICT dispersed Ŕ HAZARD TREATMENT SALE/S.A. SILVICULTURAL TRMT Unit # **OPERATION PERIOD** H.T. SH wind Slope orsher Location Northerl can1. COMPACTION (Heavy) MM: BXXB COMPACTION (Light) ANNAN 5 NAAAAAAAA UNDISTURBED NABBAA 1. Ta Ø NABBAR ANAAAAA 145 DISPLACED ; <u>le:</u> 30 51 **VVV** ĺπ **EXCAVATED SKID TRAIL** ; 0 110 12 SMZ/ROCK great that weterbars should have COMMENTS 2000 a location -50% upper steep pitel nerm SHAPE OF UNIT AND PATTERN OF TRANSECT \bigcirc 1428 Rd OMPACTION (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 acitvity. DISPLACED - Any place soil has been mounded by machinery, also include in heavy or light compaction. SM7 - Include within transect if within harvest unit. 7/97

			-	TRANS	SECT SU	JMMARY	FORM						
_	lowe	r	mit	fle_	why	er_		per 2	Transa	ct 5		ALS	-630
-	Transect		Transec		Transe	ct <u>3</u> %	Transe Pts.	ct 4 %	Transe Pts.	1 <u>5</u> 8	Pts.	<u> %</u>	
	Pts.	%	Pts.	%	Pts.	70		/0	1 13.				-1
D HEAVY	6	4	24	6	2	1	40	1/			72	6	_
s LIGHT t	116	88	255	71	113	43	303	85			787	71	
u UNDISTURB	10	8	82	23	145	56	13	4		·.	250	23	_
b TOTALS	132	100	361	100	260	100	356	100			1109	100	
							an an an an Na Airtín Na Airtín			- 2			_
DISPLACED	2	1	30	8	10	4	16	Ц	. ,	· · · · · · · · · · · · · · · · · · ·	58	5	
Cantel trail PUDDLED	0	0	10	3	0	0	0	0			10	1	_
PUDDLED	0	0	D	0	0	0	0	0		L	0	0	
SMZ	0	0	0	0	0	0	0	0			0	0	
ROCK	0	° O	0	0	0	0	0	0			0	0	_
BURN PILES	0	0	0	0	0	0	0	0			Ó	0	



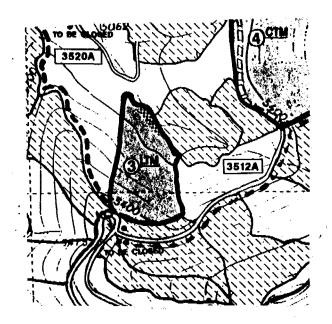
16 - Oak 09/28/1998 46-6-81 Sale Sal Fortine - Suntop Unit 3 KOOTENAI NATIONAL FOREST 34606081 SOIL DISTURBANCE MONITORING FORM tand of cle 28, 1998 **CUTTING METHOD** DATE SKIDDING METHOD SERVER indel 5 dedicated If tractor: dispersed STRICT HAZARD TREATMENT Broadcast 9.24.98 SALE/S.A. SILVICULTURAL TRMT レアノ 57 seca Unit # OPERATION PERIOD SAF Winter Н.Т. SA F/Mete nall area of 45% Slope ы Location COMPACTION (Heavy) : MM M 🛛 161 131 UNDISTURBED CON CON CON CON CON CON CONCERNMENT แห BRANDAAAAAABABAX; DISPLACED L EXCAVATED SKID TRAIL SMZ/ROCK COMMENTS Overa SHU through anod SHAPE OF UNIT AND PATTERN O TRANSECT 3 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. 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. SMZ - Include within transect if within harvest unit.

	uppe			lower							5 TOTALS		
:	Transec	t <u>1</u>	Transec		Transect	3	Transed Pts.	<u>ct 4</u> %	Transec Pts.	<u>t 5</u> %	Pts.	ALS %	
	Pts.	%	Pts.	%	Pts.	%	FIS.		F15.			/0	
D HEAVY	2	1	0	0							2	2,5	
s LIGHT t	161	51	131	46							292	52	
u UNDISTURB r	118	42	152	54							210	48	
TOTALS	281	100	283	100							564	100	
x		•		·				<u> </u>					
DISPLACED	6	2	4	1							10	ス	
EROSION	0	Ø	0	0							0	0	
PUDDLED	0	D	0	0							0	0	
SMZ	0	0	Ø	0				<u></u>			0	0	
ROCK	0	D	D	Ð					ļ		0	0	
BURN PILES	0	0	0	0							0	D	

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TRANSECT SUMMARY FORM



579-05-015 -: 06/12/1998 Libby - West Dry Sweep Salvage Unit 8A **KOOTENAI NATIONAL FOREST** 57905013 SOIL DISTURBANCE MONITORING FORM CUTTING METHOD DATE BSERVER SKIDDING METHOD dedicated 1 STRICT If tractor: dispersed SALE/S.A. West Dry Salvage 1c Bride HAZARD TREATMENT LPP SILVICULTURAL TRMT Rem 86 Unit # Acres \mathcal{DF} OPERATION PERIOD Η.Т. broch: - Ravell Slope Location West Dry Ford COMPACTION (Heavy) COMPACTION (Light) X MARANDAR / X ARA A A A A DISPLACED 🔀 EXCAVATED SKID TRAIL SMZ/ROCK COMMENTS Snow road serted tion -6 ots Sun SHAPE OF UNIT AND PATTERN OF TRANSECT MPACTION (Heavy) - Any place where future vegetative growth will be significantly impacted, i.e., skid trails (both Treavily 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. SMZ - Include within transect if within harvest unit. 7/97

	1			TRANS	SECT SU	MMARY	' Form					
	lowe	r	un						т <u>—</u>			<u> </u>
	Transec		Transec		Transec		Transec		Transec		TOT	
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	<u>%</u>
D HEAVY i	.7	3	8	4							15	4
s LIGHT t	llD	53	120	61							230	57
u UNDISTURB r	90	44	70	35							160	39
b TOTALS	207	100	193	100							405	100
				·								
DISPLACED	10	5	5	3							15	4
EROSION	0	υ	0	0							o	0
PUDDLED	0	Ο	D	0							0	0
SMZ	Ø	D	0	0							0	0
ROCK	0	0	0	0							0	0
BURN PILES	D	0	0	0							0	0

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06/12/1998		A second
Libby - West Dry Sweep Salvage		17 <u>a - 06 - 07 7 - 6</u>
Unit 9 57905017	KOOTENAI NATIONAL FOREST	57605017
57905017	SOIL DISTURBANCE MONITORING FORM	•
DATE Que 12, 1998	CUTTING METHOD	
SSERVER Kuemen	SKIDDING METHOD	RTS
STRICT Libby	If tractor: dispersed	gdedicated
Unit # 200, Acres	SILVICULTURAL TRMT Remon	e down -PP
H.T. VFRIDO -ES/C/un	OPERATION PERIOD	
Slope <u>15-30</u>		
Location west Duy Forh COMPACTION (Heavy) X L		
	ANDRIXIX	
INDIATURDER SAMAN	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	/
DISPLACED		
EXCAVATED SKID TRAIL		
SMZ/ROCK		
COMMENTS		
		· · · · · · · · · · · · · · · · · · ·
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SHAPE OF UNIT AND PATTERN C	OF TRANSECT	
	and the second sec	

<u>COMPACTION (Light)</u> - Any other area not included in heavy COMPACTION or UNDISTURBED. <u>UNDISTURBED</u> - 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	Transec	t 2	Transect	t_3	Transec	ct 4	Transec	t 5	TOT	
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
D HEAVY i	ت ر	6									15	6
s LIGHT t	110	41									110	41
u UNDISTURB r	140	53							ļ		140	53
b TOTALS	265	100				 					265	100
DISPLACED											3	
•	3	<u> </u>								↓		
EROSION	D	0									0	0
PUDDLED	0	Ø								r	0	0
SMZ	0	0									0	0
ROCK	D .	0									0	0
BURN PILES	0	D									0	0

10 06/12/1998 Libby - West Dry Sweep Salvage -05-020 **KOOTENAI NATIONAL FOREST** Unit 9A SOIL DISTURBANCE MONITORING FORM 57905020 according. CUTTING METHOD DATE SKIDDING METHOD BSERVER If tractor: dedicated STRICT dispersed SALE/S.A. West BULHAZARD TREATMENT SPF 9 H SILVICULTURAL TRMT Remove Unit # Acrés **OPERATION PERIOD** H.T. \mathcal{DF} 1000 Slope 5-1-30 Bodroch: Kovalle 9 rod Location West Dry For power. COMPACTION (Heavy) COMPACTION (Light) UNDISTURBED 🗖 🖾 DISPLACED :: **EXCAVATED SKID TRAIL** SMZ/ROCK COMMENTS SHAPE OF UNIT AND PATTERN OF TRANSECT

<u>OMPACTION (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. <u>UNDISTURBED</u> - 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.

	top	>	- 1	TRANS		JMMARY	FORM						١
	11		m	·	10NE							6	\sim
	Transec		Transec		Transec		Transe		Transec			ALS	
<u> </u>	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	للتفلق توجيفا ويترا
D HEAVY i	7	4	8	3	5	2					20	3	
s LIGHT t	110	59	160	60	170	69					440	63	
u UNDISTURB	7D	37	100	31	70	29					240	34	
b TOTALS	181	100	268	100	245	100					700	100	,
										i			
DISPLACED	4	2	3	1	4	2					11	2	
EROSION	0	0	0	Ø	Ò	0					0	0	
PUDDLED	0	0	0	0	0	0					0	0	
.SMZ	0	D	0	0	0	0_					0	0	{
ROCK	0	Ø	0	0	0	0					0	0	Ŷ
BURN PILES	0	D	0	0	0	0					0	0	
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514-04-0-06/03/1998 Libby - Sheldon Interface 517-05-016-42 Unit 4 KOOTENAI NATIONAL FOREST 51404055/51705016 SOIL DISTURBANCE MONITORING FORM 2 1948 valo CUTTING METHOD DATE BSERVER SKIDDING METHOD :07 ennén If tractor: dispersed in cu dedicated ISTRICT Lib sheldor ŚALE/S.A. HAZARD TREATMENT Lot SILVICULTURAL TREATMENT remove pine Unit # Acres 6: The OPERATION PERIOD wanter 9 H.T. der !! Slope 230 -Unit4 ontrite 1/ 55% Hospiecter tee . COMPACTION (Heavy) Unit 5/ alana Ű 9120 COMPACTION (Light) 04 Ini 23 Unit 5 Congeasterk face UNDISTURBED UNIT 4 Ø 73 Unit 5 (along rasterly 10 DISPLACED Un Unit 5 (alon EXCAVATED SKID TRAIL/ 10/01 08 613 SMZABOCK Past Tt Z (\mathcal{G}) COMMENTS delim bounda 10 A.14 hemisder DF/Caser L:60 01 dela SHAPE OF UNIT AND PATTERN OF TRANSECT along transact @ 190 points were observed to be from past 1169.234 m activities, transect @ 208, and transect @ 215. Obviously not all were considered retring to 71

<u>OMPACTION (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. <u>COMPACTION (Light)</u> - Any other area not included in heavy COMPACTION or UNDISTURBED. <u>UNDISTURBED</u> - No signs of any machinery or skidding acitvity.

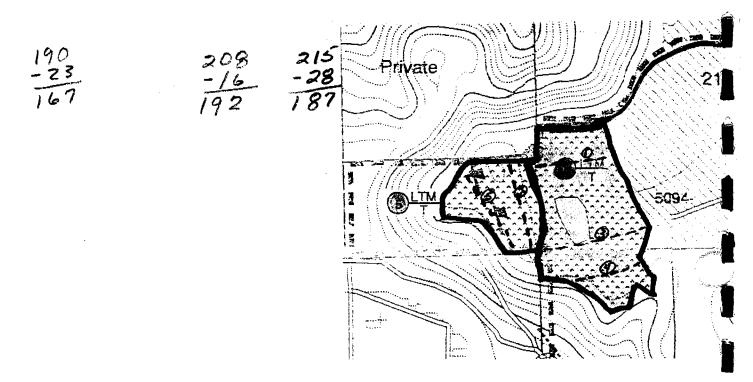
<u>DISPLACED</u> - Any place soil has been mounded by machinery, also include in heavy or light compaction. <u>SMZ</u> - Include within transect if within harvest unit.

	-+4	(D	(STRAN	SECT SI		FORM					
IL A	w I	Transec		Transed		Transe		Transe	ct 4	Transec	5	ТОТ	ALS
ι <u>ς</u>	••••••••••••••••••••••••••••••••••••••	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
D	HEAVY	23	7	16	5	28	7					67	6
s t	LIGHT	271	80	301	86	307	81					879	82
u r	UNDISTURB	46	13	33	9	45	12					124	12
b	TOTALS	340	100	350	100	380	100					1070	100
	DISPLACED	5	3	3	2	2	1_					10	2
	EROSION	0	0	0	0	0	0					0	0
	PUDDLED	0	D	0	0	6	0					0	0
	SMZ	0	0	0	0	0	0					0	0
	ROCK	0	0	0	0	0	0					0	0
	BURN PILES	0	0	0	0	0	0					0	0

23 16 28

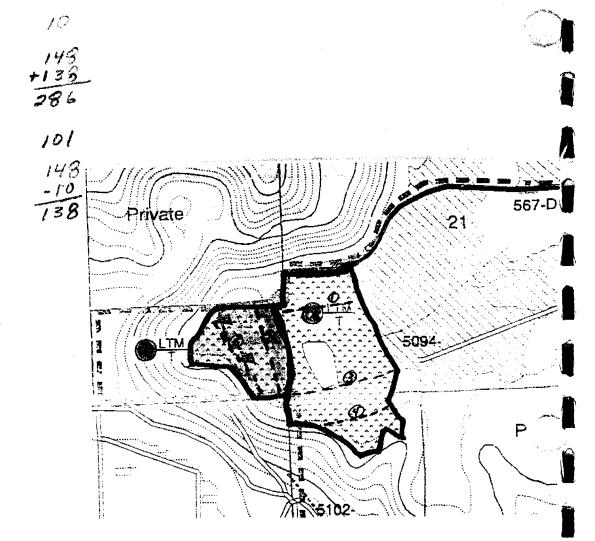
104	109	120
+167	+192	+187
271	301	307

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06/03/1998 514-04-0-18 -Libby - Sheldon Interface 517-05-020-Unit 5 **KOOTENAI NATIONAL FOREST** 51404048/51705020 SOIL DISTURBANCE MONITORING FORM 1998 DATE CUTTING METHOD clippe SKIDDING METHOD **BSERVER** Cal + STRICT If tractor: dedicated dispersed SALE/S.A. Ce HAZARD TREATMENT SILVICULTURAL TREATMENT Unit # Acres OPERATION PERIOD writer H.T. DF ibo D Carw Slope <u> 3010</u> COMPACTION (Heavy) 9148 COMPACTION (Light) 123 Ì Ð 3 UNDISTURBED 173 101 Ø \mathcal{T} DISPLACED 18 2 **EXCAVATED SKID TRAIL** SMZ/ROCK Past Activity 20 3148 COMMENTS Easterl 35-50% slope, 12 Trails unero me 000 rum noma m deexe und wo were ---ween th . SHAPE OF UNIT AND PATTERN OF TRANSECT 854,250 m. 15 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 acitvity. DISPLACED - Any place soil has been mounded by machinery, also include in heavy or light compaction.

Unit 5	(Ź	(-TRAN	SECT SUI	MMAR	Y FORM					
	Transec		Transec		Transect		Transec		Transec		ТОТ	
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	<u>%</u>
D HEAVY i	15	5	10	3							25	3
s LIGHT t	123	39	286	72							409	58
u UNDISTURB r	173	56	101	25							274	39
b TOTALS	311	100	391	100							708	100
		-										
DISPLACED	18	6	2	1							20	4
EROSION	0	D	0	О		-					0	0
PUDDLED	0	D	0	ð							0	0
SMZ	0	0	O	0							0	0
ROCK	Ð.	0	0	0							0	0
BURN PILES	0	0	Ø	\mathcal{O}							0	0



06/12/1998 Libby - Dry 3 Roadside 57905027 Unit 2 KOOTENAI NATIONAL FOREST 57905027 SOIL DISTURBANCE DATA FORM clina DATE CUTTING METHOD OBSERVER SKIDDING METHOD DISTRICT HAZARD ABATEMENT SILVICULTURAL Samutation salvage RDSI SALE Unit No. 12A OPERATION PERIOD_Summe 14 COMPACTION(Heavy) **Z**, COMPACTION (Light) UNDISTURBED A KAKAKAKA 140 DISPLACED EXCAVATED SKID TRAIL SMZ/ROCK COMMENTS PP Dead + Join L ight, 53 undicturbed 10 detrimen -4 Shape of Unit and Pattern of Transect

Pts Pct. Hang 14 5 Light 109 42 Undist. 140 53 Total 263 100

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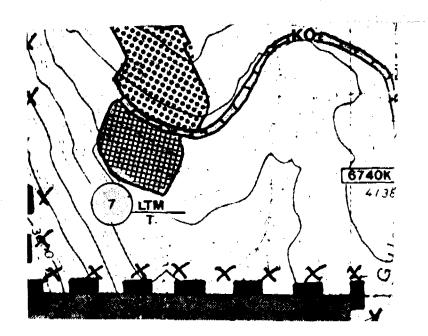
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06/30/1998 539-04-0-1 Libby - Detgen Cowell Unit 7 **KOOTENAI NATIONAL FOREST** 53904029 SOIL DISTURBANCE MONITORING FORM DATE 30 1998 CUTTING METHOD per mostly SERVER SKIDDING METHOD henner STRICT If tractor: dedicatéd spersed 66 SALE/S.A. Detain DenvyHAZARD TREATMENT SILVICULTURAL TRMT LTM Sheltewood Unit # Acres H.T. DF/Caru **OPERATION PERIOD** - GP Summer 1998 Libo Slope COMPACTION (Heavy) 23 COMPACTION (Light) upper 14 over i90 UNDISTURBED DISPLACED X XX 100 130 lower_ XXXX M м EXCAVATED SKID TRAIL SMZ/ROCK COMMENTS U true ana. she Rosa. l-e 12 nt logas 50 Settere tri la and pen 101 curren Kan to mord 10 SHAPE OF UNIT AND PATTERN OF TRANSECT Kd. 67401 MPACTION (Heavy) - Any place where future vegetative growth will be significantly impacted, i.e., skid trails (both esavily 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.

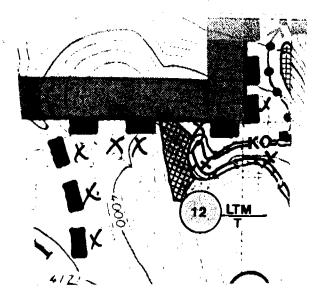
<u>DISPLACED</u> - Any place soil has been mounded by machinery, also include in heavy or light compaction. <u>SMZ</u> - Include within transect if within harvest unit.

			1		SECT SU	MMARY	FORM					
	upp	er_		er_	·							
	Transfic	1	Transec		Transect		Transect		Transect		TOT	
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
D HEAVY i	11	5	23	8							34	7
s LIGHT t	141	61	190	63							33/	6 Z
u UNDISTURB r	79	34	87	29							166	31
b TOTALS	231	100	300	100							531	100
							<u></u>					
DISPLACED	100	43	130	43							230	43
EROSION	0	0	0	0							0	0
PUDDLED	Ø	0	0	0							0	0
SMZ	Ø	0	0	0							0	6
ROCK	0	0	0	0							0	0
BURN PILES	\bigcirc	0	0	D							0	0



06/30/1998 40-05-031 Libby - Detgen Cowell Unit 12 KOOTENAI NATIONAL FOREST 54003034 SOIL DISTURBANCE MONITORING FORM CUTTING METHOD DATE SKIDDING METHOD BSERVER NA STRICT If tractor: dispersed dedicated SALE/S.A. 220 HAZARD TREATMENT ain SILVICULTURAL TRMT Unit # Acres ComOPERATION PERIOD H.T. 101 Summ \overline{D} 1998 Slope NE Location ma s COMPACTION (Heavy) 3 COMPACTION (Light) 130 UNDISTURBED 115 150 DISPLACED 20 **[X]** 8 EXCAVATED SKID TRAU SMZ/ROCK COMMENTS enver ra SHAPE OF UNIT AND PATTERN OF TRANSECT 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. DISPLACED - Any place soil has been mounded by machinery, also include in heavy or light compaction. SMZ - Include within transect if within harvest unit.

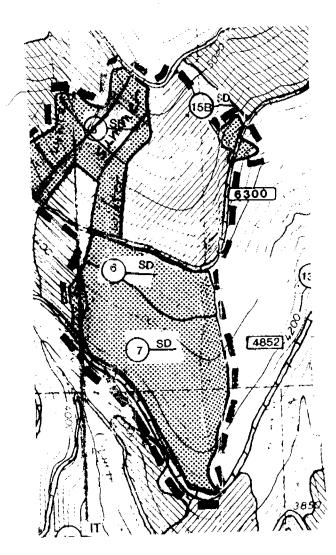
	1				SECT SU	IMMARY	FORM					
Г	19an		$\frac{\mathcal{N}}{\mathcal{T}}$	1.2.67		+ 0	Tranca	ot 4	Transact	5		
-	Transect	1 %	Transec Pts.	<u>≹⁄2</u> %	Transed Pts.	ct <u>3</u> %	Transe Pts.	<u>ct 4</u> %	Transect Pts.	<u> </u>	Pts.	ALS (
D HEAVY	Pts.	70		70	<u>гю,</u>	/0	<u> </u>	/0	F 13.	/0	1.0.	
i	7	3	5								12	2
s LIGHT t	100	45	130	46							230	45
u UNDISTURB r	115	52	150	<u>53</u>							265	53
b TOTALS	222	100	285	100							507	100
								• .	:			
DISPLACED	20	9	8	·3 -						<u> </u>	28	6
EROSION	0	0	0	0							0	0
PUDDLED	0	0	ð	0							0	0
SMZ	0	0	0	0						··· ··· ···	0	Ø
ROCK	0 -	0	0	Ø							0	0
BURN PILES	0	0	0	0							S	٥



1-9 - Cê lin * Cê - Ce 6 09/22/1998 Libby - Bristow Creek Salvage Unit 5 KOOTENAI NATIONAL FOREST 55403021 SOIL DISTURBANCE MONITORING FORM DATE 22 199 CUTTING METHOD **OBSERVER** SKIDDING METHOD 4m 6-STRICT If tractor: dispersed dedicated 1-Bride SALE/S.A. HAZARD TREATMENT SILVICULTURAL TREATMENT Unit # Acres 46 OPERATION PERIOD H.T. to 5 sun 4600-5000' Êl Slope le, **COMPACTION (Heavy)** nter) ten to. \mathcal{O} COMPACTION (Light) 155 3 a 140 UNDISTURBED 4 50 3 30 D 60 80 DISPLACED uppe EXCAVATED SKID TRAIL SMZ/ROCK COMMENTS RO rala NOF SHAPE OF UNIT AND PATTERN OF TRANSECT ý. MPACTION (Heavy) - Any place where future vegetative growth will be significantly impacted, i.e., skid trails (both meavily 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. SMZ - Include within transect if within harvest unit.

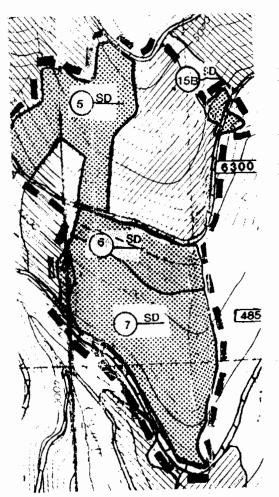
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Ôe	loby	, a	O:lo	Seg :	De	Josep	Set Oracitation data	L .	Octo	ber	}	
	low	urre Er	L March-	TRANS	SECT SI	UMMARY	FORM			ta e B		48. <u>3</u> 5
	Transec	<u>t 1</u>	Transec	ot 2	Transe	¢ (3	Transe	ect 4	Transe	bas=5 .		ALS
D HEAVY	Pts.	% 5/	Pts.	% 8/4	Pts.	% 7/4	Pts.	%	<u>Pts.</u> 29	% 7	Pts.	3
s LIGHT t	84/12	10	116/55		40/140	53/61			240	58	415	67
u UNDISTURB	55/50	38/29	60/60	31/27	30/80	40/35	•		145	35	190	30
b TOTALS	147/12	100	192/ 225	5/00	15/228	8 100			414	100	625	100
DISPLACED												
	/1	/ 4	/ 8	14	3	//			0	Ð	18	3
EROSION	0	0	0	0	0	0			0	0	0	0
PUDDLED	0	0	0	0	0	0			0	0	0	0
SMZ	0	0	0	0	0	0			0	0	0	0
ROCK	0	0	0	0	0	Ø			0	0	0	0
BURN PILES	0	D	0	0	0	0			0	0	σ	0



09/22/1998 554-05 Libby - Bristow Creek Salvage Unit 6 **KOOTENAI NATIONAL FOREST** 55403031 SOIL DISTURBANCE MONITORING FORM DATE CUTTING METHOD BSERVER SKIDDING METHOD dedicated 4..... If tractor: dispersed STRICT Mc Bride HAZARD TREATMENT SALE/S.A. rista WL + DF souther SILVICULTURAL TRMT SDUnit # Acres SAF OPERATION PERIOD H.T. Libo Sum 1998 Ele: 4500-4600' 352 Slope 30% 7 Location(pCr. COMPACTION (Heavy) COMPACTION (Light) mille 386 UNDISTURBED mildle 185 DISPLACED mille **EXCAVATED SKID TRAIL** SMZ/ROCK COMMENTS S A se Unit 7 but 60 RM inglo SAF de LP SAI from N Wcorner Munto to 90 na Л en ots 01 Surface organico lenty 4 50**s** $C \mathcal{W} \mathcal{D}$ 50 WD = coarse woody debis 5 Sur are organico SHAPE OF UNIT AND PATTERN OF TRANSECT 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. DISPLACED - Any place soil has been mounded by machinery, also include in heavy or light compaction. SMZ - Include within transect if within harvest unit.

	Transec	t 1	Transec	t 2	Transect	3	Transec	t 4	Transect		TOT	ALS
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
D HEAVY i	12	2									12	2
s LIGHT t	386	66									386	66
u UNDISTURB	185	32									185	32
b TOTALS	583	100									583	100
DISPLACED	6	1									5	1
EROSION	0	0									0	0
PUDDLED	Ø	0									0	0
SMZ	0	0									0	0
ROCK	Ô	D						-			0	0
BURN PILES	0	0									0	0



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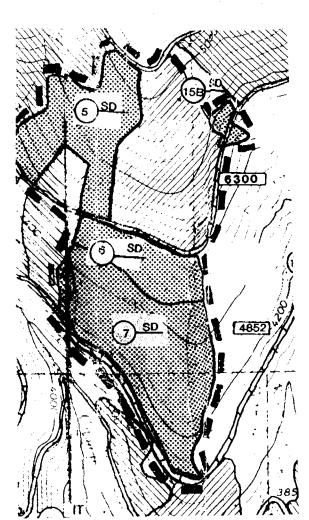
09/22/1998 554-03-042 91 Libby - Bristow Creek Salvage Unit 7 KÖÖTENAI NATIONAL FOREST 55403042 SOIL DISTURBANCE MONITORING FORM **CUTTING METHOD** DATE SKIDDING METHOD BSERVER If tractor: dedicated dispersed STRICT Beide 1-HAZARD TREATMENT SALE/S.A. Briston 407 SILVICULTURAL TRMT SI inch Unit # Acres Same 4) OF BATION PERIOD H.T. GF 99**.8** 500 broch. Ele: 4100-4500 Slope t0-359 KAUNDO Location Ca mpl 320 COMPACTION (Heavy) 10 **COMPACTION** (Light) 50 640 UNDISTURBED シノレ 209 DISPLACED Prove 10 EXCAVATED SKID ARAIL SHZ/ROCK 4 4 COMMENTS Fin Pino 0 also alento , below fin Consta ~ V-r +WH. the more SHAPE OF UNIT AND PATTERN OF TRANSECT Rd 4852 MPACTION (Heavy) - Any place where future vegetative growth will be significantly impacted, i.e., skid trails (both reavily 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. SMZ - Include within transect if within harvest unit. 7/97

_	lowe	2	Transec	ren					<u> </u>			
	Transect	t 1			Transect		Transed		Transect		TOT	
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	<u>%</u>
D HEAVY i	16	2	26	3							42	3
	507	69_	640	73			<u> </u>		-		1147	71
u UNDISTURB r	216	29	209	24			<u> </u>		<u> </u>		425	26
b TOTALS	739	100	875	100			<u> </u>				1614	100
												:
DISPLACED	10	1	8	1				·	<u> </u>	·	18	1
EROSION	0	0	0	0							0	0
PUDDLED	0	0	0	0							0	0
SMZ	6	0	0	D							0	0
ROCK	4	.5	4	.5							8	.5
BURN PILES	δ	0	D	0							0	0

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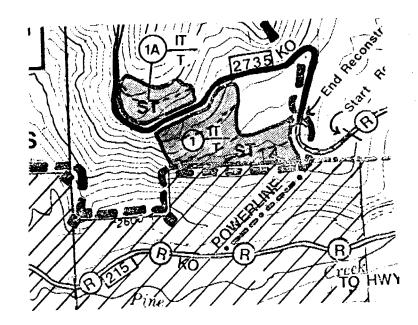
10/23/1998 728-09-005 Cabinet - Gray Woodchuck Unit 1 72809005 1963 ية الرئيسية ا KOOTENAI NATIONAL FOREST SOIL DISTURBANCE MONITORING FORM CUTTING METHOD TE SERVER SKIDDING METHOD If tractor: dispersed dedicated DISTRICT HAZARD TREATMENT SALE/S.A. Gra contr SILVICULTURAL TRMT Seed tree Unit # Acres OPERATION PERIOD 1999 Summer H.T. Phine DE Aspect: E ENE Slope Ele: 2900-3100 Location lower slope COMPACTION (Heavy) 10 \mathcal{A} 3 ~ 2 68 LANN COMPACTION (Light) NNANANANANANANANANANA QUIDDS: 92 ⊠• BBBBB 3 50 DISPLACED 2 21 EXCAVATED SKID TRAIL ദി. 3 4 10 SMZ/ROCK COMMENTS Interbero a mou uni near trai SHAPE OF UNIT AND PATTERN OF TRANSECT $(\mathbf{z})_{\cdot}$ CMPACTION (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 acitvity. DISPLACED - Any place soil has been mounded by machinery, also include in heavy or light compaction. SM7 - Include within transect if within harvest unit. 7/97

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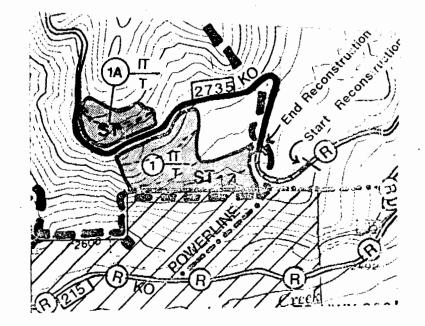
			of the second se				do	100		1.		(
	Transec	t 1	Transed	t 2	Transe		Transe					
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
D HEAVY i	2	41	3	<u>k</u>	R	2	10	2	5	2	ZZ	3
s LIGHT t	168	41	92	45	43	45	41	10	32	16	376	53
u UNDISTURB	187	46	72	35	50	53					309	44
b TOTALS	357		167		95	100	51		37		707	100
	408		204									
DISPLACED	2	.5	3	1.5	4	4	O	· •	0	O j	9	1
EROSION	0	0	Ø	0	0	6	0	0	0	0	0	0
PUDDLED	0	0	0	0	0	0	0	0	0	0	0	0
SMZ	0	0	0	0	0	0	0	0	0	0	0	0
ROCK	0	0	0	6	0	0	0	0	0	0	0	0
BURN PILES		0	0	0	0	0	0	0	0	0	0	ð
	<u> </u>											



10/23/1998 728-01-002 Cabinet - Gray Woodchuck Unit 1A **KOOTENAI NATIONAL FOREST** 72807002 1962 - í., SOIL DISTURBANCE MONITORING FORM CUTTING METHOD ATE SERVER SKIDDING METHOD dedicated If tractor: ersed 1-STRICT HAZARD TREATMENT SALE/S.A. ordihich SILVICULTURAL TRMT A Unit # Acres **OPERATION PERIOD** H.T. Phma DF Aspect: E-ENE Slope えの Ele: 3100-3200 Location la Slip COMPACTION (Heavy) 6 pld 1 86 COMPACTION (Light) X X X X X X X X X 42 184 UNDISTURBED X X Ø DISPLACED < 1_ EXCAVATED SKID TRAIL SMZ/ROCK COMMENTS SHAPE OF UNIT AND PATTERN OF TRANSECT OMPACTION (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 acitvity. DISPLACED - Any place soil has been mounded by machinery, also include in heavy or light compaction. SM7 - Include within transect if within harvest unit. 7/97

	Par	a t	()	TRANS	SECT SU	JMMARY	FORM		•			<i>(</i>
	Transec	ent	Transec	t 2	Transe	ot 3	Transe	ct 4	Transec	t 5	TOT	ALS
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
D HEAVY i	4	1	6	2							10	3
s LIGHT t	86	26	42	13						<u>.</u>	138	42
u UNDISTURB r	184	<u>5</u> 5	0	0							184	55
b TOTALS	274	100	48	<u>í</u>							<u>332</u>	100
	32	2										
DISPLACED	5	3	D	0							5	1.5
EROSION	U	0	D	б							0	0
PUDDLED	ð	0	0	D							0	0
SMZ	D	Ð	0	D							0	0
ROCK	0	D	D	0							0	0
BURN PILES	D	0	0	0							0	D

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TRANSECT SUMMARY FOR

10/23/1998 Rexford - Lower Scalp Fire Salvage		\$01-0-1-00z
Unit 5 10704088	KOOTENAI NATIONAL FOREST	
DISTRICT Radford UNIT RAFACT SALE/S.A. Lower Scalp FISAL Unit # 5 Acres / 15 H.T. Slope 35-45% Aspect Location Lower Baulder COMPACTION (Heavy)	CUTTING METHOD SKIDDING METHOD If tractor: HAZARD TREATMENT SILVICULTURAL TRMT OPERATION PERIOD LT: 301 HOW Scalp Mut.	dedicated, t (spring 98) - 96/97
COMPACTION (Light)		
	· · · · · · · · · · · · · · · · · · ·	
DISPLACED		
	4 4 5 	
COMMENTS Looks Very Se	miles to aret & of Lower	Scolp. Operation.
Same period. Lots of malit would be f. Rd. 7236 is can	and excertillation of the thous	Lindnet 8. Culvert
Unit 8 was man as Unit 5, Previou	itarel July 22, 1997. It	I trails have same
with the shillside, with the shillside, see any any any	Sellage operation or general decides to the o	ed trails. Cannot
SHAPE OF UNIT AND PATTERN OF	TRANSECT	
		\$ -
	:	
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<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. <u>COMPACTION (Light)</u> - Any other area not included in heavy COMPACTION or UNDISTURBED. <u>UNDISTURBED</u> - 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.

SM7 - Include within transect if within harvest unit.

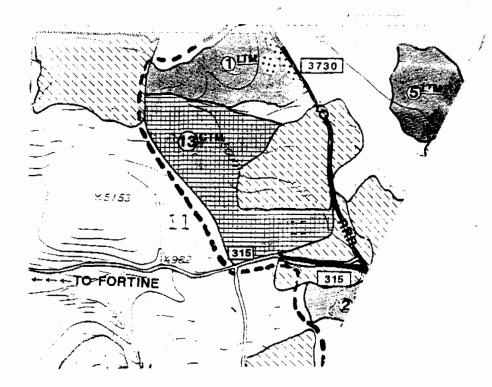
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	1	Transect	1	Transect	2	Transect	3	Transect	t 4	Transect			ALS
	1	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
D H i	IEAVY												
s Ll t	IGHT												
r	INDISTURB												
b TC	DTALS												
D	DISPLACED												
E	ROSION												
P	UDDLED												
S	MZ												
R	ROCK	·											
В	URN PILES												



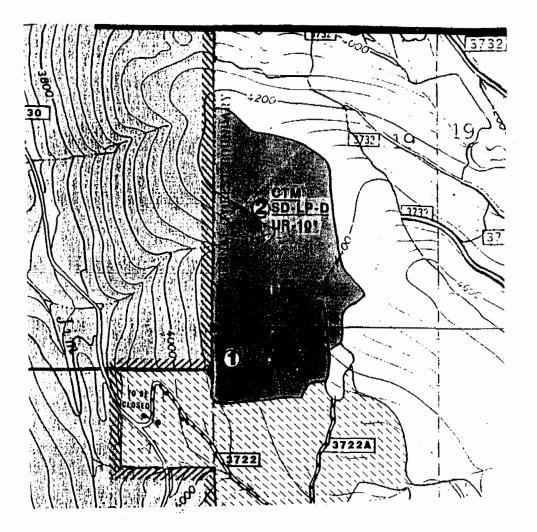
09/24/1998 138 Fortine - Trebro South 12.0000 Unit 1 & 2 98 **KOOTENAI NATIONAL FOREST** 34703055/34704013 SOIL DISTURBANCE MONITORING FORM 1- 1 Han Education CUTTING METHOD ATE SKIDDING METHOD SERVER dedicated . سريا STRICT If tractor: dispersed SALE/S.A. HAZARD TREATMENT SILVICULTURAL TRMT -ixk Unit # Acres OPERATION PERIOD H.T. u Slope Location COMPACTION (Heavy) **COMPACTION** (Light) UNDISTURBED DISPLACED **EXCAVATED SKID TRAIL** SMZ/ROCK COMMENTS A no Cha ~7 SHAPE OF UNIT AND PATTERN OF TRANSECT

<u>DMPACTION (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. <u>COMPACTION (Light)</u> - Any other area not included in heavy COMPACTION or UNDISTURBED. <u>UNDISTURBED</u> - 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. SMZ - Include within transect if within harvest unit.

7/97

	Transect	1	Transect	2	Transect	3	Transect		Transec	t 5	TOT	ALS
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
s LIGHT						_						
b TOTALS												
DISPLACED												
EROSION						·						
PUDDLED												
SMZ												
ROCK	11											
BURN PILES												



155051 06/02/1998 Three Rivers - China Basin Salvage KOOTENAI NATIONAL FOREST Unit 23 SOIL DISTURBANCE DATA FORM 45505177 DATE 6 9 12 CUTTING METHOD SKIDDING METHOD_ shuline OBSERVER7 DISTRICT h HAZARD ABATEMENT SILVICULTURAL S SALE Unit No. HT-571 El-4600, 45-5 Shipe-51 OPERATION PERIOD COMPACTION(Heavy) **\$** COMPACTION (Light) UNDISTURBED DISPLACED EXCAVATED SKID TRAIL SMZ/ROCK COMMENTS Pant ng n A CWD very good Shape of Unit and Pattern of Transect

04018 - 15A 57904009-64 **KOOTENAI NATIONAL FOR** Libby - Dry Pocks Salvage SOIL DISTURBANCE DATA FORM -Unit 8 57904009/57904018 DATE 6.25.98 CUTTING METHOD_(uemen / Crawford skild DING METHOD TA OBSERVER / DISTRICT bby HAZARD ABATEMENT achs Salvage SILVICULTURAL Santation Salvage SALE [slope 25 OPERATION PERIOD Jul/Aug HT 282/323 El 4000-4200 A3-5W COMPACTION(Heavy) Wath-COMPACTION (Light) UNDISTURBED DISPLACED EXCAVATED SKID TRAIL SMZ/ROCK COMMENTS

Shape of Unit and Pattern of Transect

 $x \mapsto x^{2}$

57907022-	ZI 37907027-3 KOOTENAI NATIONAL FOREST SOIL DISTURBANCE DATA FORM	06/25/1998 Libby - Dry Pocks Salvage Unit 12 579007022/57907027
DATE <u>6/25/98</u>	CUTTING METHOD	
OBSERVER uennen Cher	ford SKIDDING METHOD	
DISTRICT Libby	HAZARD ABATEMENT	
SALE Dry Pocho Sal Unit No. 1.2	wage SILVICULTURAL Samtation 3.	als/su seed/resource
HT. 292/591 Cle-4300 COMPACTION(Heavy) Slope	And SKIDDING METHOD HAZARD ABATEMENT hage silvicultural <u>samtation</u> S Az-sw OPERATION PERIOD_Jul/Aug 15-25	102
		Y
COMPACTION (Light)	- Walk	Through
DISPLACED		
EXCAVATED SKID TRAIL		
SMZ/ROCK		
COMMENTS		
· · · · · · · · · · · · · · · · · · ·	- · · · · · · · · · · · · · · · · · · ·	

Shape of Unit and Pattern of Transect

and the second second

56403044 -33A 56403047 -5H **KOOTENAI NATIONAL FOREST** 06/25/1998 SOIL DISTURBANCE DATA FORM Libby - Done Creek Salvage Unit 38 56403044/56403047 DATE_6/ CUTTING METHOD_ uennen/Crawy SKIDDING METHOD forwar OBSERVER DISTRICT_L HAZARD ABATEMENT Solverge SILVICULTURAL Son. Selv / CC w/reserve sale DOPERATION PERIOD (COMPACTION(Heavy) ____ COMPACTION (Light) UNDISTURBED DISPLACED EXCAVATED SKID TRAIL SMZ/ROCK . COMMENTS _

Shape of Unit and Pattern of Transect

06/17/1997 ローレスールス Rexford (D-1) - Bunker Hill FIre Salvage Unit 10 11202102 NATIONAL FOREST STURBANCE DATA FORM 97 CC Fire Salvare DATE $\overline{\omega}$ rek CUTTING METHOD BSERVER vennen Sullivan SKIDDING METHOD SUMME Tracti Billows, Wardger DISTRICT HAZARD TREATMENT youdal HUI Fire Salvane THENT BOSICS SALE BUNKET SILVICULTURAL $\overline{\mathbf{G}}$ Unit No. 10 Acres OPERATION PERIOD 5 FF Habitat Type 20-40% 15 COMPACTION (Heavy) Trans.1 521 19 NA Trans.2 Trans.3 33 COMPACTION(Light) Trans.1 医致夏周期 :: 2) goots have crosian outor 55 151 Trans.2 Trans.3 148 UNDISTURBED Trans.1 150 Trans.2 rock 239 <u>Trans.3</u> 315MZ, 201, 5MZ 220 ØØ 180 DISPLACED EXCAVATED SKID TRAIL \mathbf{X} SMZ OMMENTS -40 water 14 Links ster end 100 terbaroin thail on sile Ŵġ SHAPE OF UNIT AND PATTERN OF TRANSECT 100 Stream

<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.

<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.

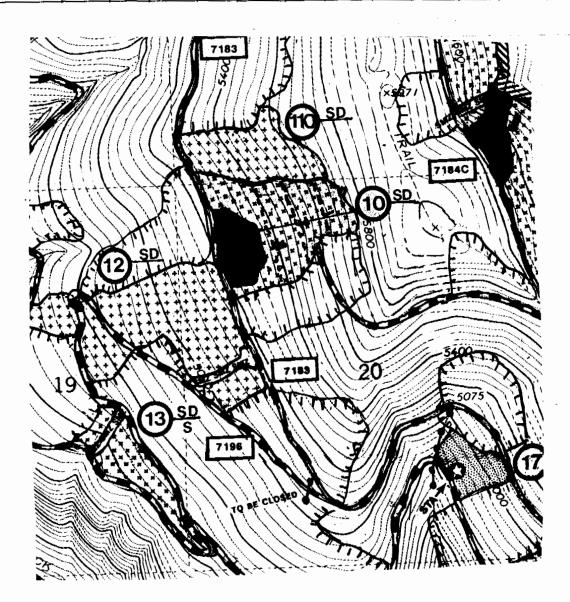
SMZ - include within transect if within harvest unit.

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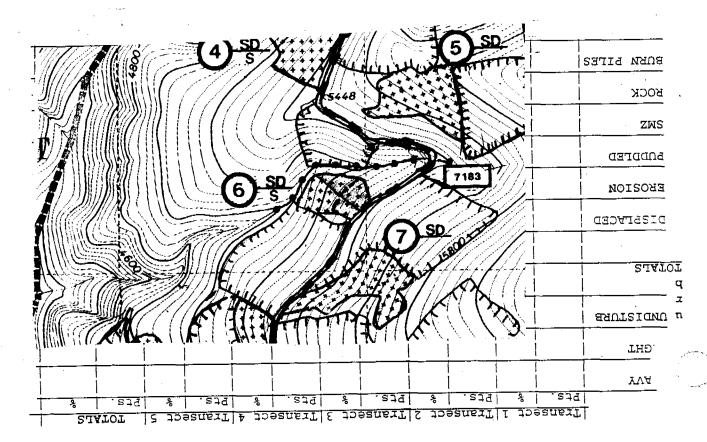
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· · · ·	Transe	ect_1	Transe	ect 2	Transe	ect 3	Transe	ect <u>4</u>	Trans	ect 5	TOT	ALS
	Pts.	옹	Pts.	8	Pts.		Pts.	8	Pts.	8	Pts.	8
D HEAVY i	15	1	19	5	33	3	 			 	67	6.5
s LIGHT t	55	25	151	37	148	27		 			354	34,5
u UNDISTURB	150	68	239	58	222	55				 	609	59
b	<u> </u>	1/20	403	1760	11/ 01			ļ		<u> </u>	1030	10-0
TOTALS	220	100	905	1/0-0	401	100		<u> </u>		1	10.50	
	1	1	ļ		1		1	ļ	 _	1		
DISPLACED	10	5	19	5	20	5					49	5
EROSION	.3	1	5	1	7_		1				15	1
PUDDLED	0		0		0						0	0
SMZ					23			1			23	2
ROCK			4								4	0
BURN PILES		1			1	1						



	11903075	
Rexford (D-1) - Bunker Hill Fire Salvage	KOOTÉNAI NATIONAL FOREST	
Unit 6 S 11203075	SOIL DISTURBANCE DATA FORM	
···	il A	
ATE 8. 5.91	CUTTING METHOD ford	
OBSERVER KUENNEN	SKIDDING METHOD Cable	
DISTRICT Repford	HAZARD TREATMENT none	
SALE Bunker/Hill Fine Salus Unit No. 10	woodgen SILVICULTURAL TREATMENT	
Unit No	Acres	100
H.T. SAF/Clun/Mete	e -> Mete classe == 145	171
()2~03	-075 -075	. 1
COMPACTION(Heavy):		9
COMPACTION(Light) 🕅 🖾 🖾		40
UNDISTURBED DO DO DO DO DO		
DISPLACED		3
EXCAVATED SKID TRAIL		
SMZ		······································
Comments Cable carridon 100° Condor where slight	Lapart. Several minimal water	and placed in one
		······
SHAPE OF UNIT AND PATTERN OF	TRANSECT pranaeitz	
SHAPE OF UNIT AND PATTERN OF	TRANSECT manaents	
SHAPE OF UNIT AND PATTERN OF	TRANSECT manaents	
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SHAPE OF UNIT AND PATTERN OF	TRANSECT manaeitz	
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SHAPE OF UNIT AND PATTERN OF	TRANSECT manaertz	
SHAPE OF UNIT AND PATTERN OF	TRANSECT manaents	
COMPACTION(Heavy) - any place	e where future vegetative growth will	be significantly
<u>COMPACTION(Heavy)</u> - any place impacted, i.e., skid trails (where future vegetative growth will both heavily and lightly used depended	ng on amount of
<u>COMPACTION(Heavy)</u> - any place impacted, i.e., skid trails (compaction related to soil mo	where future vegetative growth will both heavily and lightly used dependence bisture), landings, and other impacted	ng on amount of Lareas.
<u>COMPACTION(Heavy)</u> - any place impacted, i.e., skid trails (compaction related to soil mo <u>COMPACTION(Light)</u> - any other UNDISTURBED - no signs of any	where future vegetative growth will both heavily and lightly used dependence isture), landings, and other impacted area not included in heavy COMPACTION machinery or skidding activity.	ng on amount of 1 areas. N or UNDISTURBED.
<u>COMPACTION(Heavy)</u> - any place impacted, i.e., skid trails (compaction related to soil mo <u>COMPACTION(Light)</u> - any other UNDISTURBED - no signs of any	where future vegetative growth will both heavily and lightly used dependence isture), landings, and other impacted area not included in heavy COMPACTION	ng on amount of 1 areas. N or UNDISTURBED.

	Transe	ect 1	Trans	ect_2	Transe	ect 3	Trans	ect 4	Trans	<u>ect 5</u>	TOTA	LS
_	Pts.	8	Pts.	8	Pts.	8	Pts.	8	Pts.	ş	Pts.	÷.
HEAVY	У	2				 L	 		 	 	4	2
LIGHT	40	16				 		 	 	 	40	16
UNDISTURB	200	82	1		·			! ↓		 	200	82
DTALS	244	100				 	 	 	 	 	244	100
	 	 	 			 		 		<u> </u>		
DISPLACED	3	1	1		1						3	
EROSION						1	l					Ø
PUDDLED			1 		1	1		1		1.	 	0
SMZ												
ROCK	 		 	 .								
BURN PILES			1	1					1	1		



TRANSECT SUMMARY FORM

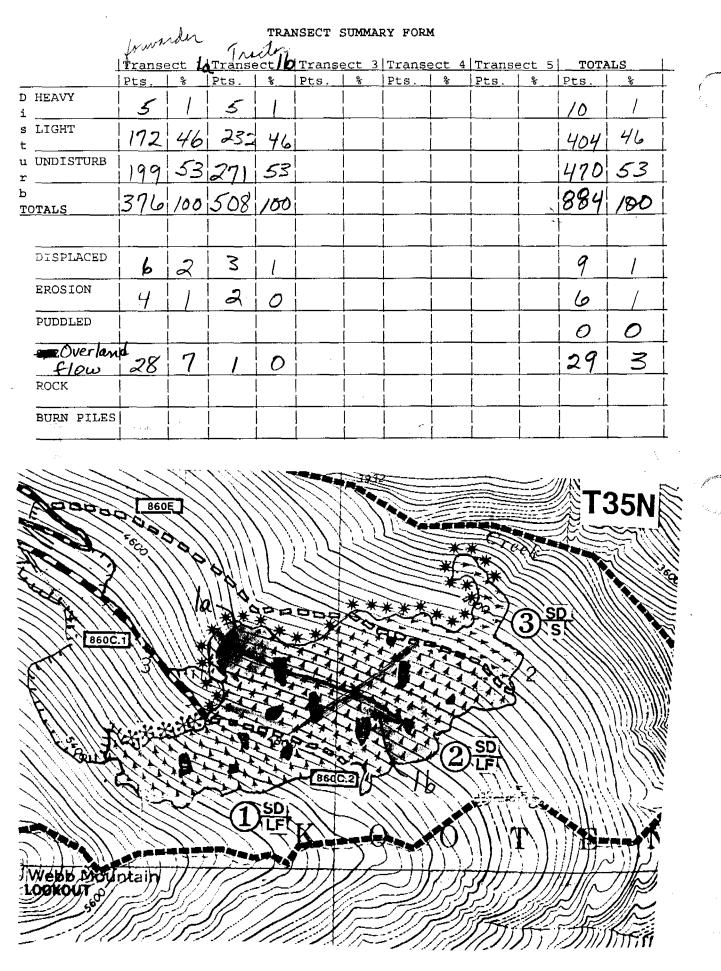
07/22/1997 Rexford (D-1) - Webb FIre Salvage CONTENAL NATIONAL FOREST Unit 2 3.141.15 SOIL DISTURBANCE DATA FORM 10907167 CUTTING METHOD // DATE owarde. SKIDDING METHOD OBSERVER HAZARD TREATMENT DISTRICI SILVICULTURAL TREATMENT terwood SALE Unit No. 109-07-167 OPERATION PERIOD Acres One tran mid-section of unit-started west to east end of COMPACTION (Heavy) 172 232 199 NUNARDONNARDONARDONARDON I 1991 40 DISPLACED EXCAVATED SKID TRAIL SMZ COMMENTS N N N overland Ir handlized flaur SAN ansim TNA SHAPE OF UNIT AND PATTERN OF TRANSECT

See back

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

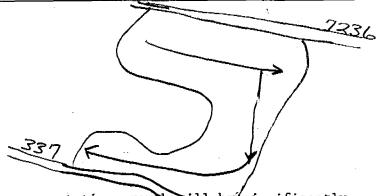
DISPLACED - any place soil has been mounded by machinery, also include in heavy or light compaction.

SMZ - include within transect if within harvest unit.



07/22/1997 107040200 Rexford (D-1) - Lower Scalp TIONAL FOREST, Fire Salvage DISTURBANCE DATA FORM Unit 8 10704088 JTTING METHOD DATE endel SKIDDING METHOD OBSERVER/ ulel HAZARD TREATMENT μ DISTRICT Treo marked ILVICULTURAL TREATMENT SALE Unit No. 9 Heres 107-04-088 PERATION PERIOD $\mathcal{M}_{\mathcal{L}}$ Prenous Coru Lower 12 41 AAAA COMPACTION (Heavy 40 N N N N 43 ANNA: 46 ARRAZ. COMPACTION(Light) 76 X X X X X X X X 30 NNN 77.5 AND ADDAX 54 132 N N N N N I 12,5 UNDISTURBED RE 104 S A MARANAN : 2 XX 3.1 DISPLACED XXI F SU MAXANI. 50 EXCAVATED SKID TRAIL SMZ COMMENTS OVERIAND / CHANNEL FLOWS - 5 Under 2 absent oner

SHAPE OF UNIT AND PATTERN OF TRANSECT



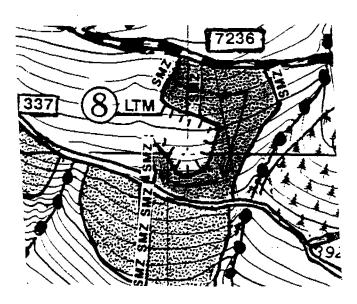
<u>COMPACTION(Heavy)</u> - any place where future vegetative growth <u>still be</u> significantly impacted, i.e., skid trails (both heavily and lightly used depending on amount of compaction related to soil moisture), landings, and other impacted areas. <u>COMPACTION(Light)</u> - any other area not included 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.

Curren	TRANSECT	SUMMAF	FOLM	2 1	jous)
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	Trance	AF 1	Trance	act 2	Transe	act 3	T <u>ran</u> se	ect 🍎	Transe	ect 🏹	Tran		
+	Pts.	<u>در ا</u> ج	Pts.	8 8	Pts.	8	Pts.		Pts.	ેર	Pts.	96	_ ~
HEAVY	0	\mathcal{D}	0	0	0	0	41	19	40	ZZ	54	20	/0
LIGHT	76	35	77	43	132	50	133	60	110	(e1	167	695	52
UNDISTURB	144	65	104	51	132	50	46	21	30	17	43	499	38
OTALS	220	100	181	100	264	100	220	100	181	100	264	100	L
	\sim				\mathbb{P}^{-}			 	ř-~			1	
DISPLACED	<u></u>	 	65	 			40	18	36	20	43	17	9
EROSION		 	1		1		5	2	4	2	7	3	
PUDDLED		 	 	 				1					l L
SMZ	 	 . 	 	 				1					l
ROCK	 		1	<u>↓</u> 	<u> </u>								i L
BURN PILES			. <u> </u>	+ 	+	1				 			Ī



08/07/1997 - Rexford (D-1) - North Fork West Fire Salvage NATIONAL FOREST Unit 28A SOIL DISTURBANCE DATA FORM 11204220 en den an Aras the star to all the second second CUTTING METHOD C ATE Cat dispersed OBSERVER SKIDDING METHOD K DISTRICT HAZARD TREATMENT non SILVICULTURAL TREATMENT SILVICULTURAL SALE // 10000 Unit No. 28a 143 Ac 91,261 OPERATION PERIOD Wenter H.T. - WRC/Clun 5-30% Slope wet spot 112-04-220 20 COMPACTION (Heavy) UNDISTURBED XXXXXXXX ANNANAANA ちちつ 5 DISPLACED EXCAVATED SKID TRAIL SMZ COMMENTS / -1:410 70 mo. Cklun. ingesto ie gotter arean to ka lo - 5ta versel sive ·97, 2. Jean rage

SHAPE OF UNIT AND PATTERN OF TRANSECT

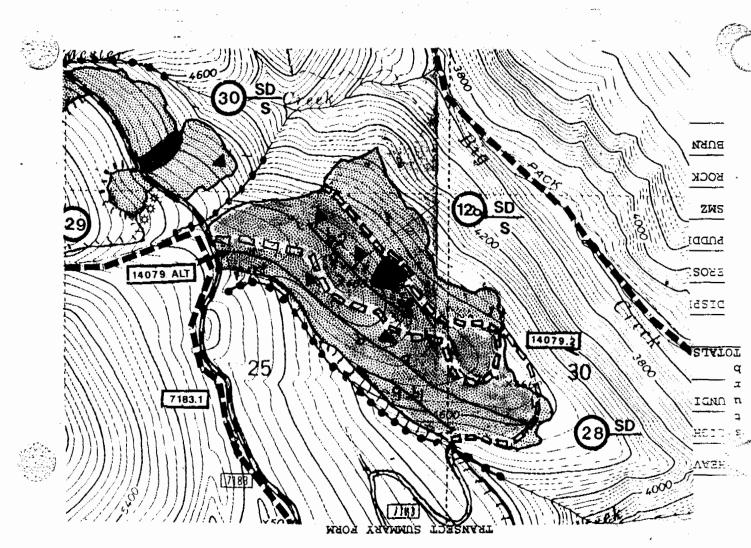
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SMZ - include within transect if within harvest unit.

5/93

-	Transe	ect 1	Trans	ect 2	Trans	<u>ect 3</u>	Trans	ect 4	Trans	ect 5	TOT	ALS	
	Pts.	*	Pts.	8	Pts.	8	Pts.	*	Pts.	8	Pts.	*	L
HEAVY	20	2											
LIGHT	285	24	[1		 			1			l · · ·
UNDISTURB	885	74							- -				ļ L
OTALS	1190	100				 	· · ·	·		 	 		Ĺ
			1								· -		Ĺ
DISPLACED	5	.5					[1			
EROSION		D	1						1				
PUDDLED		0										1	
SMZ				1	. 								
ROCK]	L		
BURN PILES			1			1	1	1	1	1	1		Ī

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08/05/1997 Rexford (D-1) - North Fork West Fire Salvage KOOTENAI NATIONAL FOREST SOIL DISTURBANCE DATA FORM NATE 8,5,97 CUTTING METHOD / oworker **ÖBSERVER** SKIDDING METHOD DISTRICT HAZARD TREATMENT SALENorth ForhWest Fire Salarge SILVICULTURAL TREATMENT SDUnit No. 236 OPERATION PERIOD Summer 97 H.T. WRC/Chin Summer operation - tractor 5 - 40% north were + ton northwest 5E 00 17 13 **N** COMPACTION (Heavy) 💋 190 MANANAR ARAGARARA COMPACTION(Light) 100 130 BOOMMAADDAADAADAADAADAA 210 7 DISPLACED / EXCAVATED SKID TRAIL SMZ COMMENTS Temp rd. I deligated shift wil was access for the steeper part on southernedge. I to recontour at wet spot. SHAPE OF UNIT AND PATTERN OF TRANSECT

See 28a

<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. <u>COMPACTION(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.

		com	n.	con	ner	1-		l.m	1	100	andt F	TOT	IT.C.	l
	1	Transe	ect 1 %	Transe Pts.	<u>ect 2</u>	<u> Trans</u> Pts.	<u>ect 1</u> %	Transe Pts.	<u>2CT 4</u>	Pts.	<u>secu :</u> %	Pts.		
HEAVY	 	<u>Pts.</u>	5	17	4	<u>PCS.</u>						30		\mathbf{I}
LIGHT		100	41	190	46	 						290	44	1
UNDIST	URB	130	54	210	50	 	 		 	<u> </u>	<u> </u>	340	51.5	
TALS	- 	243	100	417	100	 	 		 	 	 	660	100	1 1 1
DISPLA	CED	7	3						<u> </u>	<u> </u>		7		1
EROSIC	N			0	0	<u> </u>			 			_ `````` 	0	
PUDDLE	ED	<u>↓_</u> ↓ 1	↓ ┃ · Ⅰ	<u> </u> 	 	 	- 	 	<u></u>				0	÷
SMZ		<u> </u> 	 											
ROCK	<u> </u>		1								· · · ·		<u> </u>	 -
BURN	PILES	-		1			1		 		 		 	1
		- ·	- ,											
												1		
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			-		· · · · ·							2000 <u>- 1</u> 99 1997 <u>- 1</u> 99 1997 <u>- 1</u> 99 1997 <u>- 1</u> 99 1997 <u>- 1997 - 199</u>		
			-										SELL	A NAUE
			-										IFES	BURN P.
			-										SETI	
			-										C	YOCK SWZ BODDFEI
													с 201	SMZ SMZ PUDDLEI EROSION
													с 201	YOCK SWZ BODDFEI
													с 201	YOCK SWZ EKOSION DISPLAC DISPLAC
														t b TOTALS FROSION FROSION EROSION SMZ ZMZ ZMZ
														L TOTALS SMZ SMZ ZMZ ZMZ ZMZ ZMZ
										İ			20 20 20 20 20 20 20 20 20 20 20 20 20 2	SOCK EROSION EROSION DISPLAC DISPLAC DISPLAC

TRANSECT SUP FORM

08/15/1997 3450405 KOOTENAI NATIONAL FOREST 一下的人口,她的生活的声音的,她都是是是我的 Fortine - Mid Advent Unit 1 SOIL DISTURBANCE DATA FORM 34504054 cutting Method <u>Hand ¹4/</u> chippened ³/4 skilding Method <u>Hazard Treatment BB - spring 97</u> RATE Aug. 15, 1997 uennen OBSERVER DISTRICT Fortine SILVICULTURAL TREATMENT LTM - WL+ DF Seed trees SALE Mid Advent 345-04-054 <u>Acres</u> 33 Unit No. 96 OPERATION PERIOD winter H.T. - SAF/Libo Slope: 5-30% COMPACTION (Heavy) 15 60 COMPACTION(Light) X X X X 40 MAMA 210 DISPLACED EXCAVATED SKID TRAIL ottered Throw COMMENTS ton small nue stillintet. s ven 500 uni n Veri throwback. ω 14620 - 4**8**8 SHAPE OF UNIT AND PATTERN OF TRANSECT ٩ (ð Transecto 3710 vegetative growth will be significantly COMPACTION (Heavy) is (both heavily and lightly used depending on amount of impacted, i.e., s.... 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. 5/93 SMZ - include within transect if within harvest unit.

	Transec		Transec		Transe	the second second second second second second second second second second second second second second second s	Transe		Transe		TO	TALS
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
D HEAVY i	15	3	5	2							20	3
s LIGHT t	60	14	40	16						4	100	14
	360	83	210	82				-			570	83
b TOTALS	435	100	255	100		 					690	100
DISPLACED				· · · ·						 		0
EROSION												0
PUDDLED						<u> </u>						0
SMZ				1			 		·		<u> </u>	
ROCK	17	4	18	9							35	5
BURN PILES		/		·						<u></u>		

08/15/1997 502004 Fortine - Mid Advent KOOTENAI NATIONAL FOREST Unit 3 SOIL DISTURBANCE DATA FORM 34502054 4 . 19. 1749 Mar CUTTING METHOD <u>Clippered</u> DATE 8.15.1997 uennen ≫ປBSERVER SKIDDING METHOD Cool Spring 97 DISTRICT For fine 345-02-054 HAZARD TREATMENT SILVICULTURAL TREATMENT LTM - WL + DF seed Thees Advent SALE Mid Unit No. Acres: 35 ning '96 OPERATION PERIOD H.T. SAFILibo -> SAF/Xete COMPACTION (Heavy) j _ 5 180 790 ARDARI MARANNA A BABB A B 405 DISPLACED EXCAVATED SKID TRAIL 8/33 tax on gentle slove COMMENTS Son No an alla des shore in ωD oual SHAPE OF UNIT AND PATTERN OF TRANSECT trensect Rd 37105 3710D ve growth will be significantly COMPACTION(Heavy) - any place while 35 :ly used depending on amount of impacted, i.e., skid trails (bot' l other impacted areas. compaction related to soil moist heavy COMPACTION or UNDISTURBED. COMPACTION(Light) - any other ar UNDISTURBED - no signs of any ma activity. inery, also include in heavy or DISPLACED - any place soil has b light compaction. 5/93 SMZ - include within transect if within harvest unit.

	Transect		Transec	. 2	Transe		Transe	and the later late	Transec			ALS	<u> </u>
	Pts.	¢.	Pts.	<u></u>	Pts.	%	Pts.	%	Pts.	%	Pts.	0//	
D HEAVY i	7		5								12	1	Ĭ
s LIGHT t	180	28	190	32	·						370	30	
u UNDISTURB r	464	71	405	67	ļ				1 		869	69	
b TOTALS	651	100	600	100					·	, 	1251	100	
DISPLACED			1	2						1		0	
EROSION							1			;	. 	\overline{o}	
PUCOLED				····		·•• <u></u>	† <u>-</u>			, ,	·	D	
	†		†		!	<u> </u>	- <u> </u>		<u> </u>	· - <u></u> .			i
ROCK	8	/	33	6	· · · · · · · · · · · · · · · · · · ·		<u>+</u> .				41	3	
BURN PILES						···		<u> </u>					
				<u></u>	<u> </u>		<u> </u>		<u> </u>	1	<u> </u>		l

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08/13/1997 Three Rivers (D-4) - Saloon Salvage Unit 1 40303106	KÓOTENAI	UBJUG NATIONAL FOREST URBANCE DATA FORM		# -
PATE - 13-97-		CUTTING METHOD	Hand Fell	
OBSERVER L. Kurmer	Moeller	SKIDDING METHOD	Rubber time (RTS)
DISTRICT D-4	/	HAZARD TREATMENT	None	
SALE Saloon Sale Unit No. 1 WH/Clun	iage Kibler 19 Acres	SILVICULTURAL TRE OPERATION PERIOD $S/ope_{-} - 5 - \overline{3}$	nou/Dec	ion Salvage 1996
403-03-00 ' COMPACTION(Heavy) A	: - E	xisting tral	· -	9
COMPROTION (neavy) A				
COMPACTION(Light) X X			·····	59 kor
DISPLACED X:: EXCAVATED SKID TRAIL SMZ Z X X X COMMENTS The heaven and I save Trail logo He duff I	compaction tipe old out was skie the though the	was found only cat trail. The ellente the win e majority of ars are institle	on go beck unit looks tar harvest m the skid 7 ctive, but the	trails good anotained rails metrity
Remared WC end of unit. SHAPE OF UNIT AND PATTER		Fand. Mein trai	I on bench at	-lower_
ranset=0 = 0 Ra	2392	lik 5. Nenderin	MZ transect Skidtrail	

<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. <u>COMPACTION(Light)</u> - 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

_	Pts.				Trans		Pts.			<u>ect a</u> %	Pts.	
HEAVY	9	3			 	<u> </u>		<u> ~ ~ </u> 	1	<u> </u> 	9	3
LIGHT	59	19	+		<u> </u> 	1	[59	19
UNDISTURB	254	78	 	<u> </u> 						 	254	78
DTALS	326		1		 						326	100
DISPLACED	14	4									14	4
EROSION	 											0
PUDDLED	! !				1]		 		0
SMZ	40	12							1		40	12
ROCK	14	Ч									1-1	4
BURN PILES			i	1	1 .	1	1	1	1	1		
						1	1					
												T
												T34N
											Deze	34N R
												34
												34N R3

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08/13/1997 24UZII Three Rivers - Zimm Hill FIre Salvage KOOTENAI NATIONAL FOREST Unit 40 42402177 SOIL DISTURBANCE DATA FORM ATE 8 -13 CUTTING METHOD Cleaned OBSERVER SKIDDING METHOD RTS + High Trac Morres DISTRICT None HAZARD TREATMENT -TM (seed tree) SALE ZIMM SILVICULTURAL TREATMENT 40 Unit No. Hommel OPERATION PERIODWINTER 96-97 Acres Tshe/Clun Slope -- 20 - 30%, uniform 24 02 117 14/20 COMPACTION (Heavy) XL1 COMPACTION(Light) D X X X X X X SO SAAR UNDISTURBED MANAMA A A A N ARG DISPLACED **M**C M 15 EXCAVATED SKID TRAIL SMZ COMMENTS AF Formed (lean ALEG of overland Jow - Some Erosim BC CUT MO Anbolec clean Sxposed and More than Gx nected around annet 5 now was nŏ could be up hen 120 10GAR The did not Freeze ground Main - mars SL Soils - Deep glacial till w/ good ash cap. Easter y aspect. low-inter ĩ۸ ceberal places he SHAPE OF UNIT AND PATTERN OF TRANSECT Travent 6 0.1 40 10 6045 O- Area where clipper was stock, overland flow and crossion occuring 5) Over land flow Down Shil tra t 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. 5/93 SMZ - include within transect if within harvest unit.

· .	Pts.	ect I %	Upp Transe	<u>در ک</u>	Pts.	<u>ecc</u> :	JILANS	<u>ect_4</u> %	Pts.	<u>ect :</u> %	Pts.	- 2
Ð HEAVY	14	4	20	1							34	1
s light	13	<u>}</u> ,	1	29	<u> </u> 					 		26
t u UNDISTURB	230				1	<u> </u>		 		<u> </u> 	· · · ·	68
r	317	1			1		1				592	1
TOTALS		100		100	 							,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
DISPLACED	17	5	19	7	 			 	<u> </u> 	1	36	6
EROSION	<u>/</u>				 							Ø
PUDDLED		 	1					 				0
SMZ	- 	 			1			<u>↓</u> 	- <u> </u>			
ROCK						 .		<u> </u> 				
BURN PILES							<u> </u>		<u> </u>			·····
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4							4015					• • • •
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08/13/1997 42201147 KOOTENAI NATIONAL FOREST Three Rivers - Mud Little SOIL DISTURBANCE DATA FORM Unit 7 42201147 8.13.9 unod DATE CUTTING METHOD Dispersed Skidding, on Moder SKIDDING METHOD **3SERVER** inere DISTRICT 7 HAZARD TREATMENT MARC w/ patrices SILVICULTURAL TREATMENT SALE Shira OPERATION PERIOD 8 Acres Slope 5-422-01-147 16/18 COMPACTION(Heavy) 💋 🛴 \boxtimes NONANNA ANANNA ANAN COMPACTION(Light) 10/175 11 UNDISTURBED 16 Rec K ALI DISPLACED EXCAVATED SKID TRAIL SMZ COMMENTS (1) Puddling In iter and ourrland + IOW corner of Draw Repression $-N\omega$ unit dround tando land 5 6 PAATAP skiddur por^{1} contin meggures _ (rer except for rock ril in SE portion. Snil Landform Ven ranges SHAPE OF UNIT AND PATTERN OF TRANSECT 120 so were on <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. DISPLACED - any place soil has been mounded by machinery, also include in heavy or light compaction. 5/93 SM2 - include within transect if within harvest unit.

	Pts.	<u>800 1</u> 8	Transe Pts.	ect 2 %	<u>Trans</u> Pts.	ect <u>3</u>	Trans Pts.	<u>ect 4</u> %	Pts.	ect <u>5</u> %	TOTA	LS *
IEAVY	16	9	18	6					1.0.3.	<u>+ °</u>		8
IGHT	1						<u> </u>				34	
NDISTURB	1		175				<u> </u>	1	· · ·	ļ	285	66
	50	28	65	25		 	[ļ			115	26
ALS	176	100	258	100		 	 		 	 	434	100
ISPLACED	8	5	3	1		 				 	,,	3
ROSION					· · · ·	! 	1					
UDDLED						<u> </u>	<u> </u>	ļ				0
MZ						 	 		1	 		0
OCK	16	9	0	Ð		· 	 			 	16	4
URN PILES						 	-					
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09/26/1997 45404129 Three Rivers - Pulpit FIre Salvage Unit 6 KOOTENAI NATIONAL FOREST 45404129 SOIL DISTURBANCE MONITORING FORM DATE CUTTING METHOD BSERVER SKIDDING METHOD STRICT dedicated If tractor: dispersed aliou HAZARD TREATMENT ŚALE/S.A. SILVICULTURAL TREATMENT Unit # Acres 5 SAF/XerOPERATION PERIOD Н.Т. SAt 9 Vaalwi South 4-5AF/Mefe Slope 50 70 454-04 -129. COMPACTION (Heavy) COMPACTION (Light) 256 UNDISTURBED 640 DISPLACED 20 EXCAVATED SKID TRAIL SMZ/ROCK COMMENTS Shitting considers not nearly as pronounced as in Unit 14. Von has so need 40 Pe Alda re hat doug SHAPE OF UNIT AND PATTERN OF TRANSECT recontonced temp. rl. F12 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. DISPLACED - Any place soil has been mounded by machinery, also include in heavy or light compaction. SMZ - Include within transect if within harvest unit. 1197

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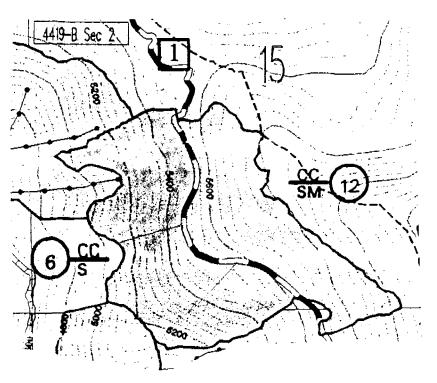
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											ALS
Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
3	.3									3	.3
256	28									256	
640	72									640	72
899	100									899	100
20	N						_			20	2
	· · · · · ·										0
											0
			<u> </u>							<u> </u>	۰
						++					-
	Pts. 3 256 640	Pts. % 3.3 256 28 640 72 899 100	Pts. % Pts. 3 .3 .3 256 28 .3 640 72 .3 899 100 .3	Pts. % Pts. % 3 .3<	Pts. % Pts. % Pts. 3 .	Pts. % Pts. % 3 .3	Pts. % Pts. % Pts. % Pts. 3 .3 .3	Pts. % Pts. % Pts. % 3 .3	Pts. % Pts. % Pts. % Pts. 3 .3	Pts. % Pts. % Pts. % Pts. % 3 .3	Pts. % %



09/26/1997 45404128 Three Rivers - Pulpit Flre Salvage Unit 12 KOOTENAI NATIONAL FOREST 45404128 SOIL DISTURBANCE MONITORING FORM DATE CUTTING METHOD **OBSERVER** SKIDDING METHOD tractor ISTRICT If tractor: dispersed dedicated -Wage HAZARD TREATMENT SALE/S.A. SILVICULTURAL TREATMENT Unit # Acres OPERATION PERIOD wenter 96 H.T. SAF Nov. ete w 10-Slope 454-04-128 COMPACTION (Heavy) 10 COMPACTION (Light) 245 UNDISTURBED 552 DISPLACED 35 EXCAVATED SKID TRAIL SMZ/ROCK COMMENTS ulue Ce. PØ. o on Al some should be sulled back ove SHAPE OF UNIT AND PATTERN OF TRANSECT trawagest-Unit12 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.

<u>COMPACTION (Light)</u> - Any other area not included in heavy COMPACTION or UNDISTURBED. <u>UNDISTURBED</u> - 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	Transec	t 2	Transect	3	Transec	t 4	Transec		тот	
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
D HEAVY i	8	3									8	3
s LIGHT t	66	25									66	25
u UNDISTURB r		72									194	72
b TOTALS	268	100			<u> </u>						268	100
DISPLACED	10	4									10	4
Excavated tra	15	2								-	5	2
PUDDLED												0
SMZ												
ROCK												
BURN PILES												

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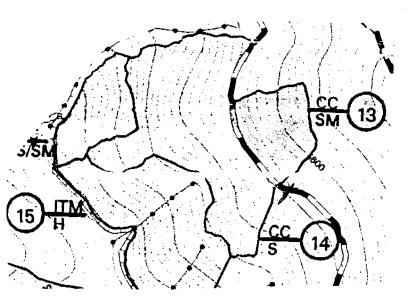
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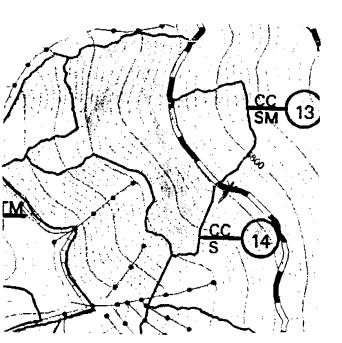
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09/26/1997 45404231 Three Rivers - Pulpit Flre Salvage Unit 14 KOOTENAI NATIONAL FOREST 45404231 SOIL DISTURBANCE MONITORING FORM 6.1997 DATE **CUTTING METHOD** BSERVER SKIDDING METHOD A dispersed STRICT dedicated If tractor: ŠALE/S.A. HAZARD TREATMENT IN2 SILVICULTURAL TREATMENT CC Unit # Acres H.T. SAF/KC ->SAF/Mete OPERATION PERIOD te /Vaa 197 50-70 Slope 454-04-231 COMPACTION (Heavy) /O COMPACTION (Light) 45 UNDISTURBED 539 DISPLACED 50 **EXCAVATED SKID TRAIL** SMZ/ROCK COMMENTS GA rth 180 A.C. eno erm SHAPE OF UNIT AND PATTERN OF TRANSECT tausect 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. DISPLACED - Any place soil has been mounded by machinery, also include in heavy or light compaction. SMZ - Include within transect if within harvest unit. 7197

	Transec		Transect		Transec		Transec		Transec			ALS
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
D HEAVY i	10	Z									10	2
s LIGHT t	45	7									45	7
u UNDISTURB r	539	91									539	91
b TOTALS	594	100									594	100
					_					<u></u>	ļ	
DISPLACED	50	8									50	E
EROSION												0
PUDDLED												0
SMZ											1	
ROCK												
BURN PILES												



Transect was run at slope break were most of displacement has accurred. Percent is not represtative of total u than 1/2 of 8 %. les .

07/15/1997 05061 Libby - Brush Salvage TENAI NATIONAL FOREST Unit 3 SOIL DISTURBANCE DATA FORM 58105067 CUTTING METHOD Han 7 • 15 • 97 DATE Tractor uennen SKIDDING METHOD OBSERVER DISTRICT HAZARD TREATMENT mone Bruch Salvage Furnier It No. <u>3</u> 26 Acres SAF/Vaca-SAF/Vag/ SILVICULTURAL TREATMENT Salvage SALE Unit No. Summer 9/0 OPERATION PERIOD = 581-05-067 26 COMPACTION (Heavy) 🛛 🖾 🛴 ØL 17 COMPACTION(Light) 239 213 145 .140 DISPLACED ٣ EXCAVATED SKID TRAIL Erode a 5 7 SMZ 🗹 | .13 M 10 COMMENTS 6 water barred. Pull debris into trail. 4 march down. rocci ma OF INTT AND PATTERN OF TRANSECT 4451 there future vegetative growth will be significantly

Compaction related to soil moisture), landings, and other impacted areas. <u>COMPACTION(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

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

SMZ - include within transect if within harvest unit.

Lower luti unit unit L Sout Uper laste Transect 1 Transect Pts 융 Pts Pts D HEAVY ÷ TOT Pts ÷ |Pts i 6 5 Pts 2 2 5 s LIGHT 5 3 3 26 4 6 23 t 23 29 50 u UNDISTURB 50 65 164 65 80 42 72 55 69 45 45 30 30 ь 210 54 TOTALS 12 00 801 100 100 100 98 100 390 100 DISPLACED 20 18 9 20 20 25 EROSION 25 19 72 PUDDLED 0 SMZ О ROCK BURN PILES

08/19/1997 55103038 Libby - Peace Alexander Salvage Unit 16 KOOTENAI NATIONAL FOREST 55103038 SOIL DISTURBANCE DATA FORM DATE \$.19.97 CUTTING METHOD skidding Method High trach cat OBSERVER Tuennen DISTRICT bibby HAZARD TREATMENT Mone SILVICULTURAL TREATMENT SD -remaining dead LPP SALEPeace A/exander Salvage Farmer Unit No.___ OPERATION PERIOD Summer 97 Acres Habitat Type 5 AF/Mefe -Slope 20-35 601-03-038 551-03-03 3 COMPACTION (Heavy) Trans Trans.2 Trans.3 COMPACTION(Light) Trans 1000000 65 Trans.2 ZXXXXX 60 Trans.3 UNDISTURBED Trans.1 XXXXX. Trans.2 XXXXX 52 50 <u>Trans.3</u> DISPLACED ZL 15 ØL. 15 EXCAVATED SKID TRAIL SMZ COMMENTS Several scattered WH + WRM ashover till residual. Lots of angular roch in matrick. Soil: 8-10' more topardo drainine. Lats of alder SHAPE OF UNIT AND PATTERN OF TRANSECT Rd 4872B 486 SD COMPACTION (Heav getative growth will be significantly impacted, i.e., lightly used depending on amount of compaction relas, and other impacted areas. - any other area not included in heavy COMPACTION or UNDISTURBED. COMPACTION (Light) 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

	traus	<u>sect 1</u>	Trans	ect 2	I man -							
D HEAVY	Pts.	8	Pts.	18	Pts.	<u>ect 3</u> %	Trans	ect 4	Trans	ect 5	L_TOT	ALS
i	3	3	D	0			<u> = LB.</u> 	<u> </u> - <u>-</u>	Pts.	<u> %</u>	Pts.	1 8
s LIGHT t	165	54	60	1	<u> </u> 	<u> </u>	<u> </u>	ļ		 	3	2
U UNDISTURB	52	╪╼╼╧╂		54	<u>_</u>	Ĺ		1 			125	54
b		43	30	46					ļ		10Z	44
TOTALS	120	100	110	100								79
				Ì				·		<u>k</u>	230	100
DISPLACED	15	13	15	14	<u> </u>	<u> </u>		—_ <u></u>	<u></u>			· · · · · · · · · · · · · · · · · · ·
EROSION		<u>/ - </u> 	<u>/</u> /	17		ļ		<u></u>			30	13
PUDDLED				<u> </u> -	<u></u>	Ĺ		+ {	[I		0
SMZ		<u> </u>			[
ROCK								—— <u> </u>	— <u> </u>	<u>-</u>		0
		ļ		<u> </u>						<u>Ļ</u>		
BURN PILES	<u> </u>									!	İ	1
	<u>-</u>								l			—— <u> </u>

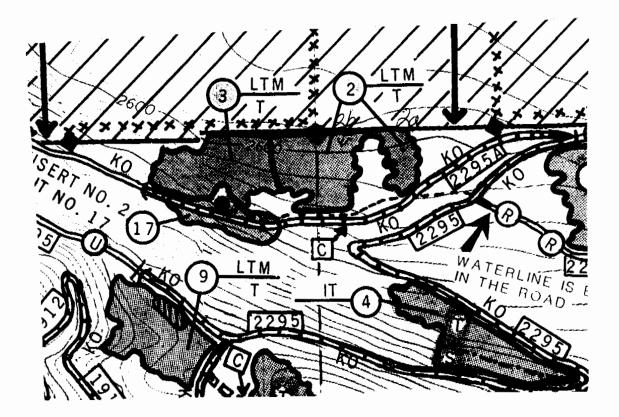
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08/19/1997 5510SOL9 Libby - Peace Alexander Salvage Unit 17 KOOTENAI NATIONAL FOREST 55103068 SOIL DISTURBANCE DATA FORM DATE 8.19.97 hand CUTTING METHOD Kuennen OBSERVER SKIDDING METHOD DISTRICT Libb HAZARD TREATMENT SILVICULTURAL TREATMENT <u>5D-remove</u> dead LPP SALEPeace Alexander Selvage Firmer Unit No. Summer OPERATION PERIOD Acres Slope: 10-30% Habitat Type 601-03-068 -068 2 COMPACTION (Heavy) Trans.] Trans.2 Trans.3 COMPACTION (Light) Trans.1 XXXXX/ 63 Trans.2 1.3 Trans.3 UNDISTURBED Trans. 1 XXXXXXX Trans.2 Trans.3 DISPLACED 20 EXCAVATED SKID TRAIL SMZ COMMENTS tion becomes what to do w! trail. Shall stbe y include some of Unit 1600. m SL wals worth the the Trail water bars are Some in bal low is the out f diver not carried nous bar was ver till fresideral. Mostly engular rock Soil: in matrix. SHAPE OF UNIT AND PATTERN OF TRANSECT trance 12 shi road <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. DISPLACED - any place soil has been mounded by machinery, also include in heavy or light compaction. 5/93 SMZ - include within transect if within harvest unit.

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	Transe	ect l	Transe	ect 2	Trans	<u>ect 3</u>	Trans	ect 4	Trans	<u>ect 5</u>	TOTA	LS
	Pts.	ક	Pts.	96	Pts.	ક	Pts.	÷	Pts.	8	Pts.	0 1
HEAVY	0		2	3	 ·		1				2	/
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UNDISTURB	50	27	50	67							100	71
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SMZ	1	 						1		1	1	
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BURN PILES					<u> </u>	1	-	1			-	



07/15/1997 11501035 Cabinet - Beaver Peak Resell Unit 2B KOOTENAI NATIONAL FOREST 71501035 SOIL DISTURBANCE DATA FORM 7. 29.97 Here and ATE CUTTING METHOD dispersed **ÓBSERVER** SKIDDING METHOD DISTRICT - Hilt HAZARD TREATMENT SILVICULTURAL TREATMENT See Thee h Kesel SALE Unit No 16 Acres Slope 5-20 95-97 COMPACTION(Heavy) / / 4 1. 6 COMPACTION(Light) XXXXXXXXXX 80 NANDABABABA 120 110 MANAAAAA 80 DISPLACED EXCAVATED SKID TRAIL SMZ COMMENTS DURC seellengs, esp. larch. Some ogano Kegen: Pico, Perne, Pipo, Laoc, Unit generally less than 20 % se Abar, TShe, Pimo less 20% slove mostly <10. Jacnerilles SHAPE OF UNIT AND PATTERN OF TRANSECT 2295A Leave Island Unit 3 --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

07/29/1997 71501035 Cabinet - Beaver Peak Resell KOOTENAI NATIONAL FOREST Unit 2B SOIL DISTURBANCE DATA FORM 71501035 7. 29.97 CUTTING METHOD ATE ractor dispersed SKIDDING METHOD OBSERVER - Helt DISTRICT HAZARD TREATMENT h Resel SILVICULTURAL TREATMENT Seed thee SALE Unit No. 16 Acres Slope 5-20 95-97 4 COMPACTION(Heavy) / / L. ے 80 COMPACTION(Light) 120 BAARAAAAAAAAA 110 BBBBBBBB 80 DISPLACED EXCAVATED SKID TRAIL SMZ n. old seedly man esp. larch. OMMENTS DAG sama SAME the Pimo egen: Pico. bo, Jaoc, H har.T. Inc.1 than march 23 less 20% <10. acoult SHAPE OF UNIT AND PATTERN OF TRANSECT =2295A Leave Island モニルマ 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.

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		<u>SIATOT</u>		202010	-, <u> </u>	- 1	$\frac{1}{77}$	 <u></u>			<u></u>	ansect		

TRANSECT SUMMARY FORM

07/29/1997 71501034 and the second second second second second second second second second second second second second second second **Cabinet - Beaver Peak Resell** Unit 3 KOOTENAI NATIONAL FOREST 71501034 SOIL IMPACT DATA FORM • 民际+ War see a Hand DATE 7.29.97 Tractor - dedicated OBSERVER UCNNEN abinet \$15-01-034 DISTRICT SALE Beaver Ph 7 Acres Pole winter 96-97 H.T. - WH/Clun slope - 51-453 COMPACTION HEAVY 9 20 Ø Ø 210 230 UNDISTURBED DADA DADA DADA DADA DADA DADA DA 267 200 DISPLACED/Publed 5 3 EXCAVATED SKID TRAIL 10 N TOOP REBARRED BARRADERA COMMENTS () assed two Su llow w/i 150' o excounted Trail Helour stream flow in Alw com Replace 35-45% slope, Mostly residual Soil estern portion of unit also scattered springs + str

SHAPE OF UNIT AND PATTERN OF WALK THROUGH.

	Transe	ect 1	Transe	<u>eqt 2</u>	Trans	<u>ect 3</u>	Trans	ect 4	Trans	ect 5	TOT2	LS
	Pts.	જ	Pts.	8	Pts.	8	Pts.	8	Pts.	8	Pts.	es.
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LIGHT	210	1	230	51	1						440	47
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TALS	486				<u> </u>						936	100
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BURN PILES					<u>↓</u>			-1	 	1		

08/05/1997 20422 Rexford - North Fork West Fire Salvage IONAL FOREST Unit 26 SOIL DISTURBANCE DATA FORM 11204221 DATE 8-5-97 CUTTING METHOD clipper OBSERVER Juennen/Sullivan SKIDDING METHOD RTS DISTRICT Kepford HAZARD ABATEMENT Jeckpot burn '98 SILVICULTURAL SW Seed reserve SALENFWestFire Salvage SILVICULTURAL an '97 OPERATION PERIOD Dec 196/ \$ H.T.531 Ele-4800 ASNW COMPACTION(Heavy) Walk-Through COMPACTION (Light) UNDISTURBED DISPLACED EXCAVATED SKID TRAIL SMZ/ROCK COMMENTS Wenter operation - looks very good Shape of Unit and Pattern of Transect

3/88

08/05/1997 11203074 Rexford - Bunker Hill FIre Salvage Unit 8 KOOTENAI NATIONAL FOREST 11203074 SOIL DISTURBANCE DATA FORM DATE <u>8-5-97</u> OBSERVER<u>Kuennen/Sullivanskild</u> DING METHOD <u>hand/ clippen</u> OBSERVER<u>Kuennen/Sullivanskild</u> MAZARD ABATEMENT <u>Jachpet burn '98</u> DISTRICT <u>Rejford</u> HAZARD ABATEMENT <u>Jachpet burn '98</u> SALE <u>Buenker Hill Fre</u> Satusil vicultural <u>SW seed/reserve</u> Unit No. <u>B</u> 43A OPERATION PERIOD <u>Dec '96/ Jan '97</u> HT-620, Ele-5100, As-W COMPACTION(Heavy) Walk - Hnough COMPACTION (Light) UNDISTURBED DISPLACED EXCAVATED SKID TRAIL SMZ/ROCK COMMENTS Winter operation Shape of Unit and Pattern of Transect 3/88

02/12/1997 Three Rivers - Zimm Hill FIre Salvage Unit 43 TIONAL FOREST 42402192 SOIL DISTURBANCE DATA FORM 'hand CUTTING METHOD Clipper $_{\rm ATE}$ 2 OBSERVER<u>Kuennen / Moellen</u> DISTRICT Juree Rever SKIDDING METHOD <u><u><u>R</u></u> / <u></u></u> Ca urn grapplepiles '98 HAZARD ABATEMENT_ Fire Salvage cut SALE Zimm Hil SILVICULTURAL ≤ 7 seed Unit No. OPERATION PERIOD Jan 97 H.T.-571 Ele: 3700 Aspert: E COMPACTION(Heavy) Walk-through COMPACTION (Light) UNDISTURBED DISPLACED - - 24 EXCAVATED SKID TRAIL SMZ/ROCK COMMENTS Winter Open sto H Snow - roals. Very men - Inou Sail impacts. One 200h MZ Shape of Unit and Pattern of Transect

3/88

United States Department of Agriculture Forest Service Kootenai NF

Reply To: 2430 2550 Date: June 4, 1997

Subject: West Yaak Proposal

To: District Ranger, D4 Attn: Leslie Ferguson

Walk through thad Some past activ Louis kuennen made on-site visits to

Leslie Ferguson, Hilaire Bojonell, and touis 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 references concerns related to the impact skiderails. The put information cogether 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 guidelines.

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

7. Y

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

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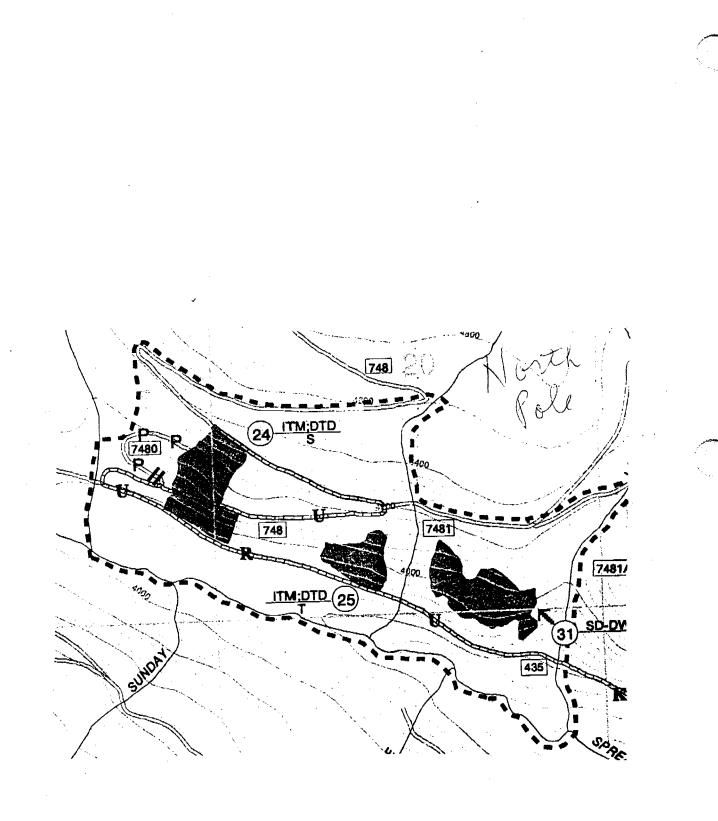
06/12/1997 Three Rivers - West Yaak (Blistered Beetle) **KOOTENAI NATIONAL FOREST** Unit 5, 8, 10, 11 SOIL DISTURBANCE DATA FORM 40902125 40902132 40901164 40901163 CUTTING METHOD_ clipper DATE_6//2//997 ennen/Bojonell/ErgusskiDDING METHOD OBSERVER DISTRICT Three Rivers HAZARD ABATEMENT (um gupple siles 2002 cut (montality crete) SALE Blistered Beetle SILVICULTURAL 5/ Unit No. <u>5, 8</u>, 10, 11 OPERATION PERIOD Summer 2000 Walk throughs COMPACTION(Heavy) COMPACTION (Light) UNDISTURBED DISPLACED EXCAVATED SKID TRAIL SMZ/ROCK COMMENTS Past excavated shid trails pre -30% 1mm 5 ut 5-H.T.-570 El-4000 As-E slone -15 - Cable unit + drop Botrychilum area 8-H.T. - 571, El- 4000, As - E, slope - 10-25%; mortality cut Use winting trails 10-H.T. - 590, El- 4200, As - E, slope - 15-30%; mortality cut, grapple pilet winter los - 4300, As- 5E, slope - 10-25%; mortality cut, gropple piles 11 - H.T.-571 . EL west of natural opening Drop wet area fal at < 5%. tatimile Shape of Unit and Pattern of Transect - 40902125, 40902131 : 20A ; 28A - 40902132 -40901164,40901165:23A : 11A - 40901163



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24: 40705129-19A, 40705101-6A 05/30/1997 Three Rivers - West Yaak (North Pole Salvage Unit 24 KOOTENAI NATIONAL FOREST 40705101/40705129 SOIL DISTURBANCE DATA FORM DATE 5/30 CUTTING METHOD uennen/Bojanell/ErgussenDDING METHOD K OBSERVER DISTRICT Three Kines HAZARD ABATEMENT Burn landing 2002 SALE North Pole SILVICULTURAL montality cut Unit No. 24 OPERATION PERIOD Summer 2000 T.- 570, E/e- 3900, As- 5 Walk-through COMPACTION(Heavy) COMPACTION (Light) UNDISTURBED DISPLACED EXCAVATED SKID TRAIL SMZ/ROCK COMMENTS Pros 1 th Mortality cut. Shape of Unit and Pattern of Transect

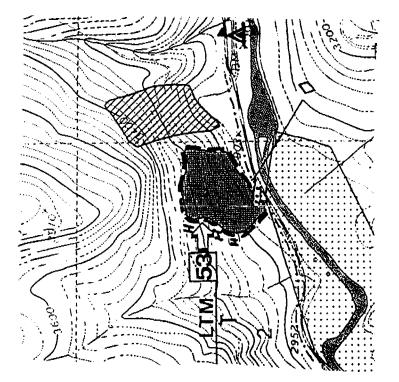


hree Rivers - W	Vest Yaak (Flaming Whitetail S	SAS) 41005107 -	20A	
nit 53	· · · · · · · · · · · · · · · · · · ·	KOOTENAI NATIONAL FO	REST	
1005107	S	OIL DISTURBANCE MONITOR	ING FORM	
DATE	5/30/1997	CUTTING METHOD	clipper	
OBSERVER	Huannen Bojonell,	FingSKIDDING METHOD	Tractor	
DISTRICT	Three Rivers!	tractor:	dispersed dedicated	
SALE/S.A.	Flaming White to	15 HAZARD TREATMENT	understryburn 2000	
Unit # <u>5</u> :			·	
H.T.	250	OPERATION PERIOD	Summer 1999	
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Location	lower slope	Elevation 3200	• • • • • • • • • • • • • • • • • • •	
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	S (Include soil, geology, or	ganic debris-large & small, eros	ion, road drainage, other pertinent info)	
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	wated trails	access from		a.,
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<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. <u>COMPACTION (Light)</u> - Any other area not included in heavy COMPACTION or UNDISTURBED. <u>UNDISTURBED</u> - 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.

SM7/ROCK/BURN PILE - Include within transect if within harvest unit

	Transect	. 1	Transec	t 2	Transec	t 3	Transec	ct 4	Transec			TAL
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	
D HEAVY												
s LIGHT									•			
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TOTALS										- <u></u> .		
DISPLACED												
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PUDDLED						<u> </u>						
SMZ												
ROCK					-							
BURN PILES						<u></u>						



05/30/1997 53A-41004133-Three Rivers - West Yaak Unit 19 & 53A **KOOTENAI NATIONAL FOREST** 40901182/40402115 SOIL DISTURBANCE DATA FORM DATE 5/ 30/1997 CUTTING METHOD____ OBSERVEI Knennen/Bojonell/Firguson DISTRICT Three Rivers HAZARD ABATEMENT_____ HAZARD ABATEMENT_____ SALE West Yach proposal Unit No. 194 53A SILVICULTURAL OPERATION PERIOD COMPACTION(Heavy) Walk - throughs COMPACTION (Light) UNDISTURBED DISPLACED EXCAVATED SKID TRAIL SMZ/ROCK COMMENTS Past excavated trails present - very scattered 19-20A, H.T.-570; Ele-4100; As-E 53A- 22A, H.T.- 570, Ele- 3900, As- 5,5W Shape of Unit and Pattern of Transect entered into SOILMON as one line of data - couldn't find Unit 19 in Sale History - TSHRS-to get associated Stand # -See comments. 3/14/03 nk

3.88

01/28/1997 13=45303170-39 Three Rivers - Studebaker FIre Salvage Unit 13 45303170 KOOTENAI NATIONAL FOREST SOIL DISTURBANCE MONITORING FORM **CUTTING METHOD** ÅTE SKIDDING METHOD SERVER dedicated DISTRICT If tractor: dispersed 998 HAZARD TREATMENT SALE/S.A. TTA M e ha 10 0 a SILVICULTURAL TRMT Unit # 5ee Acres OPERATION PERIOD H.T. rnte 199A 71 2: 5200 Slope Location Ń COMPACTION (Heavy) Walk - The **COMPACTION** (Light) UNDISTURBED DISPLACED EXCAVATED SKID TRAIL SMZ/ROCK COMMENTS to condo SHAPE OF UNIT AND PATTERN OF TRANSECT

<u>MPACTION (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. <u>COMPACTION (Light)</u> - 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		Transect 3		Transect 4		Transect 5		TOTALS	
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
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TOTALS												
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EROSION												
PUDDLED												
SMZ			-									
ROCK			-									
BURN PILES					<u>+</u> +-							

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10/21/1997 Three Rivers - Studebaker Fire Salvage KOOTENAI NATIONAL FOREST Unit 18, 9C, 10, 18 SOIL DISTURBANCE DATA FORM 45303159 45303178 45303145 45303134 DATE 10-21-97 CUTTING METHOD SKIDDING METHOD Skylin OBSERVER_ uennen HAZARD ABATEMENT Jackpat + Landings DISTRICT Three Kives SALESTudebahen King Salvapsilvicultural CC w/reserves 90,10,13,18 Unit No. 🔏 OPERATION PERIOD Summe COMPACTION(Heavy) Hrough COMPACTION (Light) UNDISTURBED DISPLACED EXCAVATED SKID TRAIL SMZ/ROCK COMMENTS all were contra $\overline{S} \rightarrow \omega$ 4000-5200' 9<u>C</u> 5000-5400 W 4000 - 4800 5-58 10 8 5200-5600 58 5000 - 5600 ミータ Shape of Unit and Pattern of Transect/Walk-through 8 - 45303159, 79A, HT-670, As-W, Ele-4400, slope -55% 9C-45303178, 9A, HT-220, As-W, Ele-5000, Slope-51% 10-45303145,40A, HT-570, As-5, Ele-4900, Slope-55% 13-45303170, 39A, HT-624, As-5, Cle-5200, Slope-40% see prevous * 18-45303134, 6A, HT-624, As-SE, Ele-5300, slope-47%

45404237 45404238 45404233 06/16/1997 Three Rivers - Pulpit Flre Salvage 7 2 15404237 Unit 7, 7A, 8 **KOOTENAI NATIONAL FOREST** = 45464233 = 454 64 2 38 SOIL DISTURBANCE MONITORING FORM CUTTING METHOD ٩Ē SKIDDING METHOD ERVER RAN dedicated dispersed If tractor: STRICT HAZARD TREATMENT SALE/S.A. SILVICULTURAL TRMT Unit # 7 cres **OPERATION PERIOD** 200 H.T. Aspect Νu Slope Elevation | 4100 Location COMPACTION (Heavy) COMPACTION (Light) UNDISTURBED DISPLACED EXCAVATED SKID TRAIL SMZ/ROCK COMMENTS (Include soil, geology, organic debris, other pertinent info) Pro hervest wiew Inits ノチ 100 SHAPE OF UNIT AND PATTERN OF TRANSECT

<u>IPACTION (Heavy)</u> - Any place where future vegetative growth will be significantly impacted, i.e., skid trails (both vily 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. <u>UNDISTURBED</u> - 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 SUMMARY FORM

					Transat	3	Transe	ct 4	Transec	t 5	TOT	ALS
	Transect		Transec		Transect		Pts.	%	Pts.	%	Pts.	%
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2=51201013 - 48A 1=51201009 - 74A HT-250, Ele 2400 Flat KOOTENAI NATIONAL FOREST HT-250, Ele-2950, Flat SOIL DISTURBANCE DATA FORM 51405026 - 977 DATE 4/28/97 CUTTING METHOD Clipper OBSERVERKuennen/Cramford DISTRICT_Libby____ RTS SKIDDING METHOD HAZARD ABATEMENT burn landings '99 04/28/1997 SILVICULTURAL Sanitation Salvage SALEBoblail Flats Unit No. 172 **Three Rivers** - Bobtail Flats OPERATION PERIOD <u>Summer '97</u> Fire Salvage Unit 1& 2 Wach-Through 51201009 COMPACTION(Heavy) 51201013/ 51405026 COMPACTION (Light) UNDISTURBED DISPLACED EXCAVATED SKID TRAIL SMZ/ROCK , COMMENTS Soils still too wet to operate on. Won't be long driping quickly. Shape of Unit and Pattern of Transect

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

DATE 5/27/97 OBSERVEIKuennen/Farmer DISTRICT_Libby____ SALE Barron Salvage Unit No.

56303013 9A KOOTENAI NATIONAL FOREST SOIL DISTURBANCE DATA FORM

CUTTING METHOD Cleaner SKIDDING METHOD_RT

HAZARD ABATEMENT <u>papple pile burn</u> '00 SILVICULTURAL <u>SW seek Jaeserve</u> OPERATION PERIOD <u>Jul / Aug '98</u>

COMPACTION(Heavy)

COMPACTION (Light)

UNDISTURBED

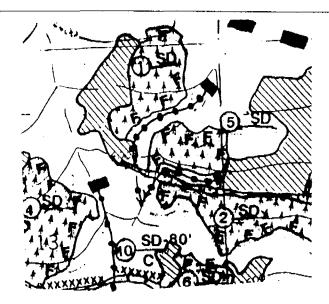
DISPLACED

EXCAVATED SKID TRAIL

SMZ/ROCK

COMMENTS

Shape of Unit and Pattern of Transect



07/10/1996 **Rexford - South Parsnip Pest Control** KODTENAI NATIONAL FOREST Unit 10 SOTI, DISTURBANCE DATA FORM 13001100 7.10.96 DATE CUTTING METHOD enne SKIDDING METHOD OBSERVER n HAZARD TREATMENT DISTRICT SILVICULTURAL TREATMENT Whe seed the SD SALE < Unit No. OPERATION PERIOD winter 95-96 130-01-100 45 D COMPACTION (Heat 30 ന A) М N N N NNNN M NNNNNNNNN MMX 90 NNRINNN 400 ଭ UNDISTURBED AND DE NORDADD 160 li LO X'X $\nabla B M M$ 235 DISPLACED EXCAVATED SKID TRAIL × X 30 COMMENTS 1 D SO mad ran 00 2 A and ven too 21.1 rania Donly on St Tracks hom 1.1 in ÷ . zi part ower-anorohumately across SHAPE OF KNIT AND PATTERN OF TRANSECT Poor control of operations. Smalldraw on northend: Shidded in t uselled; tried to cordinory/cover meas. to cordinoy/cover meas. part. Culvertinlet at mainlanding-smached. suppled: treed elverto too for apart. 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>COMPACTION(Light)</u> - 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.

2 Middle 3 Upper Tota Lower ējo <u>•/0</u> io Le Points Point< 01 Points Points istur banc 30 19 45 18 1 45 teavy 70 400 5**5** 135 59 56 ah 27 23 45 235 34 60 680 240 165 100 110 100 8 30 20 8 45 7 5 3 4 25 10 4 ଜି 2220 Sh Σ. 51 1 Q Q Ь <u>51</u> B 55 Q1 Lε Ξ 25h 881 0.01 001 5691 001 05 291 82 059 ्ट्रद 22 56 25 292 25 15 096 9 591 8 15 01 8 misi 7.0 strig TTAVA strid strie STRIO 0 Q Va proveradon Man 7 S Law oto 19

07/16/1996
Rexford - Inch Mountain Pest Control
Unit 1
12304104

2.

12304 104 KOOTENAL NATIONAL FOREST SOIL DISTURBANCE DATA FORM

DATE 7.16.96	CUTTING METHOD Clipper/Processon
OBSERVER Knennen	SKIDDING METHOD Tractor
DISTRICT Repford	HAZARD TREATMENT
SALE Inch Mat. 623-04-10	"I SILVICULTURAL TREATMENT SD Wh see the
Unit No. 38A	OPERATION PERIOD winter? latespring/sprin
SAF also on Mape	Unit not burned.
COMPACTION(Heavy)	
COMPACTION (Light)	
A A KINA A A KINA A A A A A A A A A A A A A A A A A A	
UNDISTURBED A A A A A A A A A A A A A A A A A A A	
DISPLACED	
EXCAVATED SKID TRAIL	
SMZ (
Two operational periodo??	Soil Very sochy. Soil Very wet.
Some enough occurring in	fireline!
finger.	the now y man in a source of
Ash 4-10", miged in place	20!

SHAPE OF UNIT AND PATTERN OF TRANSECT

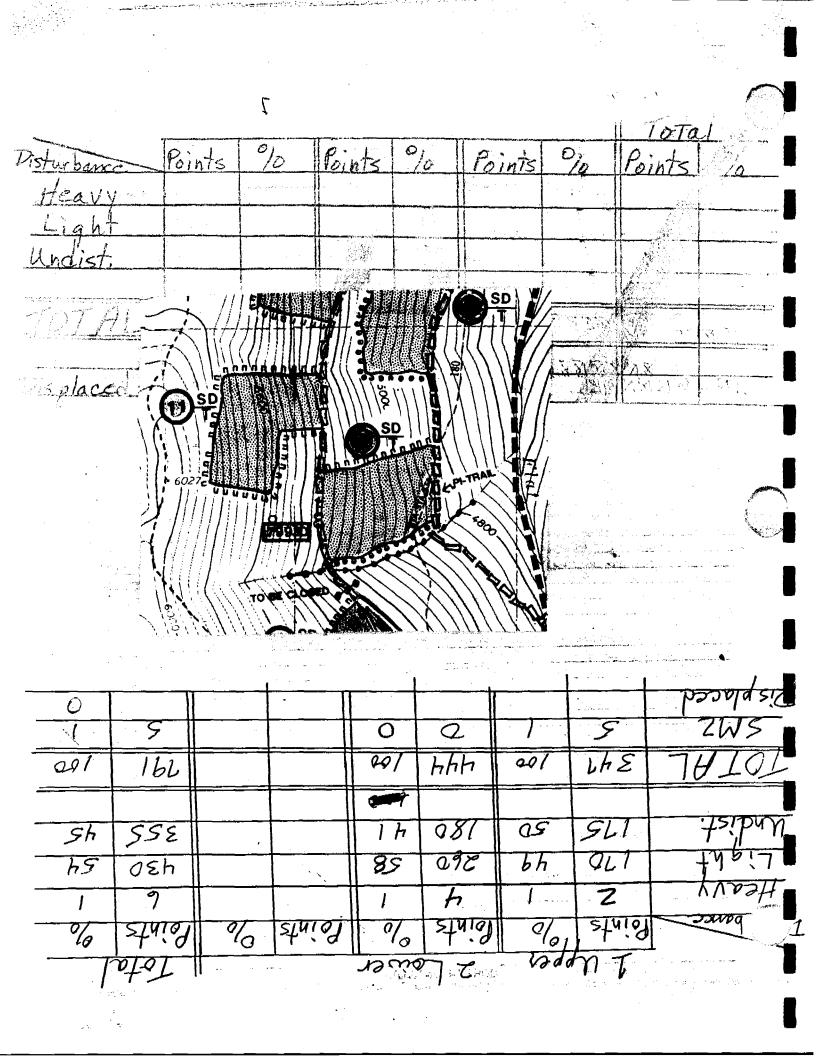
	79	<u>93D</u>
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<u>,</u> -	Lyper	
	_ Lower	
		7993A

<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.

<u>COMPACTION(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.



07/16/1996 14058 **Rexford - Inch Mountain Pest Control** KOOTENAI NATIONAL FOREST Unit 11 SOIL DISTURBANCE DATA FORM 5 S S 12304058 1.16.96 CUTTING METHOD DATE OBSERVER SKIDDING METHOD nnen 96 HAZARD TREATMENT DISTRICT -04-058 Few L seed trees SILVICULTURAL TREATMENT 5 SALE Unit No st 1995 OPERATION PERIOD Planted ES, WL, AF/Alsion Mafe COMPACTION (Heavy) 8 3 1 O COMPACTION(Light) 62 140 XXXXX 40 UNDISTURBED A COMMANNA CAMA CAMANA COMMANNA CAMANA CAMANA CAMANA CAMANA CAMANA CAMANA CAMANA CAMANA CAMANA CAMANA CAMANA CAMANA CAMANA CAMANA CAMANA CAMANA CAMANA CAMANA 180 332 ANN A A A A A A 90 DISPLACED/ alone Jewe EXCAVATED SKID TRAIL minareas & 3 Crosion / COMMENTS / over 65%) ooks vem cersos middler Mille Lower- acrossmille 1/3 2 par SHAPE OF UNIT AND PATTERN OF TRANSECT lave islan 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>COMPACTION(Light)</u> - any other area not included in heavy COMPACTION or UNDISTURBED. UNDISTURBED - no signs of any machinery or skidding activity.

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Points	10	Points	0/0	Points	0/0	Points	010
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62	25	160	32	40	31	262	30
180	72	332	67	90	69	602	69
250	100	495	100	130	100	875	100
60	0	10	м. 	6	D	10	1
3	1	0	0	0	0	3	0
)	1	L			<u> </u>	
	250 3	8 3 62 25 180 72 250 100 3 1	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

ورد با الشیون مید رواند ا

KOOTENAI NATIONAL FOREST 09/12/1996 SOIL DISTURBANCE DATA FORM **Rexford - Upper Face Pest Control** 0403109 Unit 1 10403109 9.12.96 CUTTING METHOD Ren DATE SKIDDING METHOD SERVER HAZARD TREATMENT DISTRICT SILVICULTURAL TREATMENT Soles - CTM SALE U Unit 996 OPERATION PERIOD HUGUS 104-03-109 17 COMPACTION (Heavy) w 13 136 230 COMPACTION(Light TAN MAN NAMAKKARAB ANAKA 165 30 UNDISTURBED. 63 40 10 DISPLACED 58 MAR 40 3 Koch 7 COMMENTS DA Som n to pr SHAPE OF UNIT AND PATTERN OF ZRANSECT 1. upper 2. mille 3. lower R17224 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>COMPACTION(Light)</u> - any other area not included in heavy COMPACTION or UNDISTURBED. <u>UNDISTURBED</u> - 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.

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	Upp	er	Mio	lelle	Low	er	Tota	
Disturbance	Points	0/0	Points	0/0	Points	0/0	Points	0
Heavy	17	10	10	3	13	6	40	6
Light	136	74	230	76	165	76	531	75
Undist.	30	16	63	21	40	18	13 3	19
						,		
TOTAL	183	100	303	100	218	100	704	100
Rock	5	3	7	a	1		13	Z
Displaced.	10	5	58	19	40	18	108	15
1	I	1		I	1			

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KOOTENAI NATIONAL FOREST 09/12/1996 SOIL DISTURBANCE DATA FORM **Rexford - Upper Face Pest Control** 10405112 Unit 10 10403112 CUTTING METHOD (like DATE 9.12.96 (south), Joger (north) uennen-Sullivan SKIDDING METHOD BSERVER HAZARD TREATMENT DISTRICT SILVICULTURAL TREATMENT SALE U OPERATION PERIOD SUA 104-03-112 10/20 COMPACTION (Heavy) 19/2 XXX COMPACTION (Light) INNA 231 UNDISTURBED $\nabla A D M$ 25/6 G D R 33180 KKXX DISPLACED 38/4z EXCAVATED SKID TRAI 50/50 SMZ 50/20 COMMENTS North slash. eins a little his SHAPE OF UNIT AND PATTERN OF TRANSECT 800l dor KTS 2 1.200 (4) 7224 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>COMPACTION(Light)</u> - any other area not included in heavy COMPACTION or UNDISTURBED. <u>UNDISTURBED</u> - no signs of any machinery or skidding activity.

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

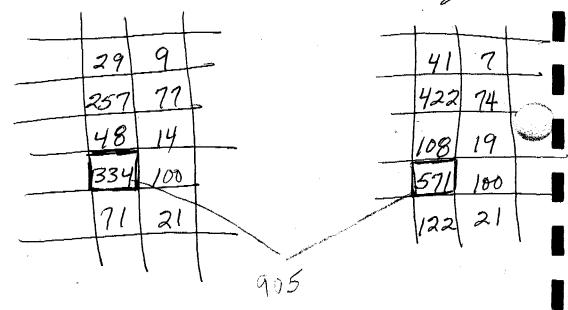
<u>SMZ</u> - include within transect if within harvest unit.

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L .	U. portation	RT	<u>[5]</u>	16.1	1 Upper	Doi	206-	
Disturbance	Points	%	Points	0/0	Points	0/0	Points	0
Heavy	10:	7:	19	10	20	8	21	7
Light	110	71	147-	22	203	77	219	_1/_
Undist.	23	16	25	· / 3	40	15	68	22
				<u></u>				
TOTAL	143	100	191	100	263	100	308	100
lewestrips_	50		50		50		20	
Displaced.	33	23	38	20	80.	30	42	14
Light Undist. <u>TOTAL</u> lewestrips	<u>110</u> 23 143	100	147 25 191 50	-77 -13 -100	203 40 263 50	100	219 68 308 20	100

RTS





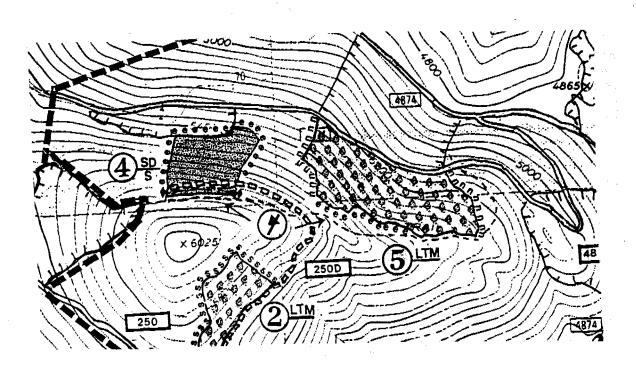
07/10/1996 0 (X/6 **Rexford - Ural Creek** KOOTENAL NATIONAL FOREST Unit 5 SOIL DISTURBANCE DATA FORM 12802164 CUTTING METHOD Clipper / Hand 1.10.96 DATE uennen OBSERVER SKIDDING METHOD ford DISTRICT 0 HAZARD TREATMENT 128-02-164 SILVICULTURAL TREATMENT See the Shelter SALE / Unit No. - cumme OPERATION PERIOD winter Mete w/ SAF Xetein 475 in the second COMPACTION (Heavy) 200 COMPACTION(Light) 395 NNNNN 287 MAX 360 DISPLACED Crosion \boxtimes EXCAVATED SKID T Pulle COMMENTS Especing on some of the Trails, Trails w/ slash placed doing hell waterblero! tel wi SHAPE OF UNIT AND PATTERN OF TRANSECT Lower 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.

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

SMZ - include within transect if within harvest unit.

1 hower Tota 2 Uppe 0/0 ō Points Points Points Points Disturbance Heavy i-igh: ndist \mathcal{O} Erosion Displaced Publied 5 D



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41901226 07/17/1996 **Three Rivers - French Mudpickens** KOOTENAI NATIONAL FOREST Unit 8 SOIL DISTURBANCE DATA FORM 41901226/41902124 1.11 46 DATE CUTTING METHOD 🍒 SKIDDING METHOD / uennen OBSERVER HAZARD TREATMENT Smalle scenator piles ivers DISTRICT THYPE Mudpickens tree (WL) WWP, DF SALE TRONCH SILVICULTURAL TREATMENT Seed Unit No. -39A OPERATION PERIOD Summe WRC/Clun-WH/Clun Ets SEaspect COMPACTION(Heavy)// #19-0E-6 1...... 315 COMPACTION(Light) NNL 320 285 230 DISPLACED [] 8 RI 13 Burn siles - AlL 15 COMMENTS 8-141 along northern boundary - erasion occurring refine too anted wIWL +WWP M73". lat. das ~ 251 MITIS al SHAPE OF INIT 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.

	1 L	ower	21	lpper)		Tota]
					42	%	Points	10
Fre vy_	6	_ 1	4	l		•	10	
Light	315	52	320	58	I		635	55
Undist.	285	41	230	41			515	44
	606	100	554	100			1160	100
📕 _ Sakka _ s_ Sak			I					
Burn Piles	15	2.5	15	2.7			30	3
Displaced		1	13	2			21	2
Erosion	4	.6	3	.5	l) 	7	.6
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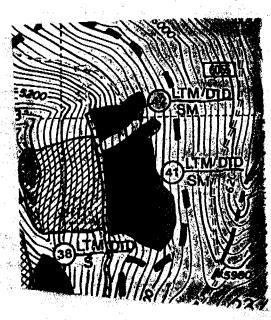




09/23/1996 KOOTENAI NATIONAL FOREST Three Rivers - Fowler Flre Salvage SOIL DISTURBANCE DATA FORM Unit 42 42701175 9.23.96 ipped CUTTING METHOD DATE Moller Bajo SKIDDING METHOD BSERVER HAZARD TREATMENT DISTRICT SILVICULTURAL TREATMENT <u>CC w/ reserves</u> SALE/ Unit No. OPERATION PERIOD Jan-Fat: 1996 27A etc/ 427-01-175 11 COMPACTION (Heavy) 14 区::: 91 60 X X X X X X X 199 201 35 DISPLACED IN N 1 51 X X X X X X EXCAVATED SKID TRAIL 11 14 SMZ COMMENTS] 15% rock on surface. W-70% rock in soil, skid trail WAS waterbarred but due to the rock content, problably didn't need put waterbars in Rock is angular. Probably Ravalli Fm. 3) Debris no found on skill trails top Was not necessari 1) Excavated trail unit al DNA 40-5070500C 35-45% slope, lower partion of unit unit is Upper part of tell that a dipper was there except for 's have to und This was winter logged so impact to soils was minimal SHAPE OF UNIT AND PATTERN OF TRANSECT Unit 41 lies adjacent to Unit 42. Even though Trancest were not done in Unit 41. it is anticipated that the results would be very similar to Uniter renation period was the same pe shape & steepness the same trees 6059 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.

North South Tota sel insect -10 0/0 o_{le} Points Points Points Points ur banc teavy <u>91</u> -ìah Undisi <u>576</u> ч Trail 11 -ACC



Contract No. 53481 PILIVATE KOOTENAI NATIONAL FOREST 07/01/1996 SOIL DISTURBANCE DATA FORM Libby - Thompson View Salvage (00000000) -596-02-503 Unit 1 59602503 7,7,25 CUTTING METHOD DATE SKIDDING METHOD ERVER uennem n 01 DISTRICT HAZARD TREATMENT View Sal SILVICULTURAL TREATMENT SALE 995 OPERATION PERIOD Summer SAF/Vase WNW some clinton anders ton 7/Z0 COMPACTION(Heavy) 165 COMPACTION(Light) 210 123 <u>11</u>2. DISPLACED X X / X X X X <u>zo</u>[50 EXCAVATED SKID TRAIL SMZ COMMENTS 6-10 50-70 pm relow ash Nor tan doppo. 100 no waterbars. aan are there, mostly inelle inco ile the surs echina unant 770 Pork upper poulle l to urper unit boun SHAHE OF UNIT AND PATTERN OF TRANSECT en er 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.

WDISTURBED - no signs of any machinery or skidding activity.

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

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

Upper Lower Tota 0/0 0/0 0/0 Points Points Points Points 0% istur banc Ζ 20 7 27 6 4 eavy 165 210 61 56 59 <u>375</u> Light 235 123 *) | Z 33 37 42 Undic 295 342 637 100 100 100 50 15 20 Displaced 70



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07/01/1996 KOOTENAI NATIONAL FOREST PRIVATE Libby - Thompson View Salvage SOIL DISTURBANCE DATA FORM Unit 4 & 7 596-02-51(8) W (0000002) . 1.96 CUTTING METHOD DATE SKIDDING METHOD uchnen BSERVER HAZARD TREATMENT DISTRICT SD SILVICULTURAL TREATMENT SALE 1995 OPERATION PERIOD Summer and Efchance SAF/Clun on 20 COMPACTION(Heavy) 18 220 LAUN 224 145 min 150 30/30 DISPLACED EXCAVATED SKID TRATL SMZ COMMENTS adallanits. 50 come eave island SHAPE OF UNIT AND PATTERN OF TRANSECT

<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. <u>COMPACTION(Light)</u> - 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.

pper Lower ō,0 0/0 Points Points De Points 0(banc 5 8 20 5 Eavy 38 220 5 224 51 5 38 38 145 50 38 2 95 385 <u>92</u> 100 00 00 S. A. C. 1 2075 X 1 < <X 8 Disp 30 30 7 21 X

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paivare 07/01/1996 KOOTENAI NATIONAL FOREST Libby - Thompson View Salvage SOIL DISTURBANCE DATA FORM Unit 6 596-12-520 (0000004) 59602520 96 CUTTING METHOD DATE nennen SKIDDING METHOD ERVER HAZARD TREATMENT DISTRICT sen Jahrense SILVICULTURAL TREATMENT SALE Unit No OPERATION PERIOD SW SAF/Xete & epchange 33 Lower COMPACTION(Heavy) 🛛 🖾 🕰 17 M I Mildle 93 middle XXXXX 50 20 NANNANAN HOLE 3 DISPLACED BAN KOK EXCAVATED SKID TRAIL C SMZ COMMENTS h content high 150 -Letwee Wal ension lon lĿ he ممس v t ist above west leave island SHAFE 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.

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

SMZ - include within transect if within harvest unit.

		Lou	,er	Mic	Idle	Upp.	er	1 Tota	
	Pisturbance.	Points	0/0	Points	°/0	Points	0/0	Points	010
	HEAVY	33	10	17	5	3	Z	53	6
	Light	193	57	190	53	85	51	468	54
	Undist.	112	33	-150	42	80	48	342	40
	TOTAL	338	100	357	100	168.	100	863	100
-				•					
	Displaced	45	13	43	12	5.	3	93	11

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07/01/1996 PRIVATE KOOTENAI NATIONAL FOREST Libby - Thompson View Salvage SOIL DISTURBANCE DATA FORM Unit 5 59602519 96-02-519 1.96 CUTTING METHOD DATE Kuennen SKIDDING METHOD ERVER _ bby HAZARD TREATMENT DISTRICT 11ew Salvey SILVICULTURAL TREATMENT SALE 2 1995 OPERATION PERIOD Kan ete 7 area Sω 30/15 COMPACTION(Heavy) 🛛 🕅 Z86 270 ower 190 15Z man DISPLACED BEREINS 33/35 EXCAVATED SKID TRAIL SMZ COMMENTS A haria eann mon 6770 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. ;PLACED - any place soil has been mounded by machinery, also include in heavy or Aght compaction. 5/93 SM2 - include within transect if within harvest unit.

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Upper Lower Tota <u>]</u> 0/0 0/0 Points Points Points 0/0 Points istur banc Heavy Light Undist. Displaced <u>33</u>

10/17/1996 KOOTENAI NATIONAL FOREST Cabinet - Beetle Bug Salvage SOIL DISTURBANCE DATA FORM Unit 1 72809003 2804 ſ CUTTING METHOD DATE SKIDDING METHOD SERVER HAZARD TREATMENT DISTRICT SILVICULTURAL TREATMENT SALE Unit OPERATION PERIOD Wins 728-09-00 COMPACTION(Heavy) (140) 198 170 110 MM DISPLACED EXCAVATED SKID TRAIL SMZ COMMENTS See enil 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

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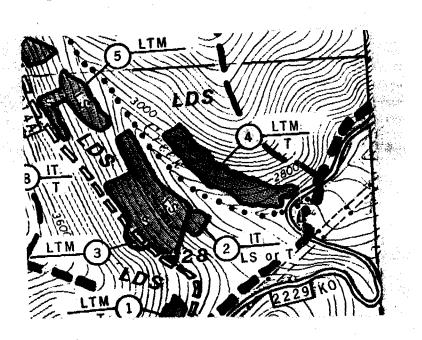
KOOTENAI NATIONAL FOREST 10/17/1996 SOIL DISTURBANCE DATA FORM Cabinet - Stevens Blacktail 1. 80 M. 220604 Unit 4 72206041 10% CUTTING METHOD DATE (Soohs SKIDDING METHOD BSERVE HAZARD TREATMENT DISTRICT SILVICULTURAL TREATMENT SALE NO Unit 1996 OPERATION PERIOD 13 A 122-06-04 COMPACTION (Heavy) N M M M M /4) 202 DISPLACED THE DE DE DE DE DE C 54 EXCAVATED SKID TRAIL SMZ COMMENTS 1 -74 ナハ 1, but 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.

Total <u>%</u> 0/0 0/0 Points Points Points Points 01 Disturbanc 41 5 41 eavy 502 61 67 502 ìah 28 207 23 lis 207 ha Ą 950 100 150 100 <u>A</u>. 7 54 1.54 27 N. e ja Liite Displacer ۲ ان Sec. in i. Na a



KOOTENAI NATIONAL FOREST 10/07/1996 90,201.5 SOIL DISTURBANCE DATA FORM Cabinet - Stevens Blacktail Mar Some d Unit 16 71902015 CUTTING METHOD DATE SKIDDING METHOD BSERVER DISTRICT HAZARD TREATMENT SILVICULTURAL TREATMENT SALE 57 evens-1 Unit No. OPERATION PERIOD Dept Below nd, Copore abovend **以** COMPACTION(Heavy) 38 175 MANAL 206 NNAXANAA 165 80 M <u>NNNN</u>NNNN MANNAN 80 230 60 NNNNN XXXXXXXXX U DISPLACED 10 MX X 10 10 EXCAVATED SKID TRAIL Roch :: COMMENTS Trispersed skidding ane shi The other wesburching logo, was shilding. Still main tril 26 chill 120 LT 552 H.T. -GF/Copc: Libo. Xete Pany, Cooc Hmal, Spirea, VAMI * Bame, Lade, Pico, Pimo, Saveral Tshe, ITsme, Abgr below SHAPE OF UNIT AND PATTERN OF TRANSECT above rd: Hand felled, grapple childed, whole-tree yarded, might - con slape 10-30 low rd. - hand belled, rappled, tops left. lope - flat w/ sepression rain trail - heavy compactio above 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

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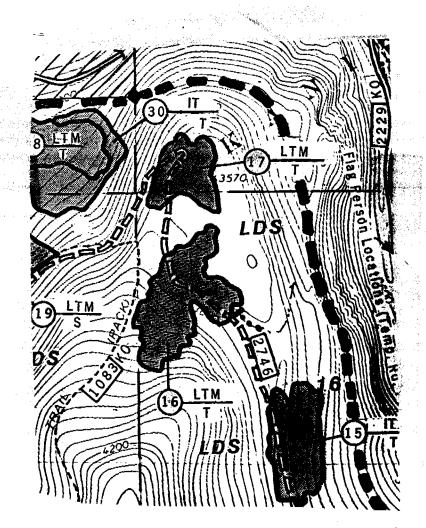
10/07/1996 KOOTENAI NATIONAL FOREST 1902016 SOIL DISTURBANCE DATA FORM Cabinet - Stevens Blacktail Unit 17 71902016 sector as as 1996 CUTTING METHOD DATE () w/ grapple SKIDDING METHOD K BSERVER Dck. HAZARD TREATMENT BB DISTRICT SILVICULTURAL TREATMENT Seed Pros SALE JOVENS Unit No OPERATION PERIOD Sept 1996 DOC 25 COMPACTION (Heavy) 180 75 UNDISTURBED MAXXXXX DISPLACED EXCAVATED SKID TRAIL SMZ COMMENTS Dispen SHAPE OF UNIT AND PATTERN OF TRANSECT Unit 17 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.

Total 0/0 Points % Points Points 0/0 Points 0 Distur banc 9 25 Eavy 180 64 a 15 27 280 100 \mathcal{O} Dis place X YZZ a.z ŝ



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1= 10102001 -65 10102012-42 KOOTENAI NATIONAL FOREST 4=10303025-15 3=10503026-27 SOIL DISTURBANCE DATA FORM = 10503024 - 20 01/17/1996 CUTTING METHOD DATE ſS OBSERVER S SKIDDING METHOD K Rexford HAZARD TREATMENTS/05hmg/44 DISTRICT SILVICULTURAL TREATMENT SALEVA Unit No. 95-96 OPERATION PERIOD (A) A ... Dodge Creek Fuels, Unit 1, 3 & 4 HT. 3/2 10102001, 10503026, 10503025 Eler 2600 COMPACTION(Heavy) COMPACTION(Light) UNDISTURBED DISPLACED EXCAVATED SKID TRAIL SMZ COMMENTS Wenter operation - Nearly flat. Lookeverngood SHAPE OF UNIT AND PATTERN OF TRANSECT

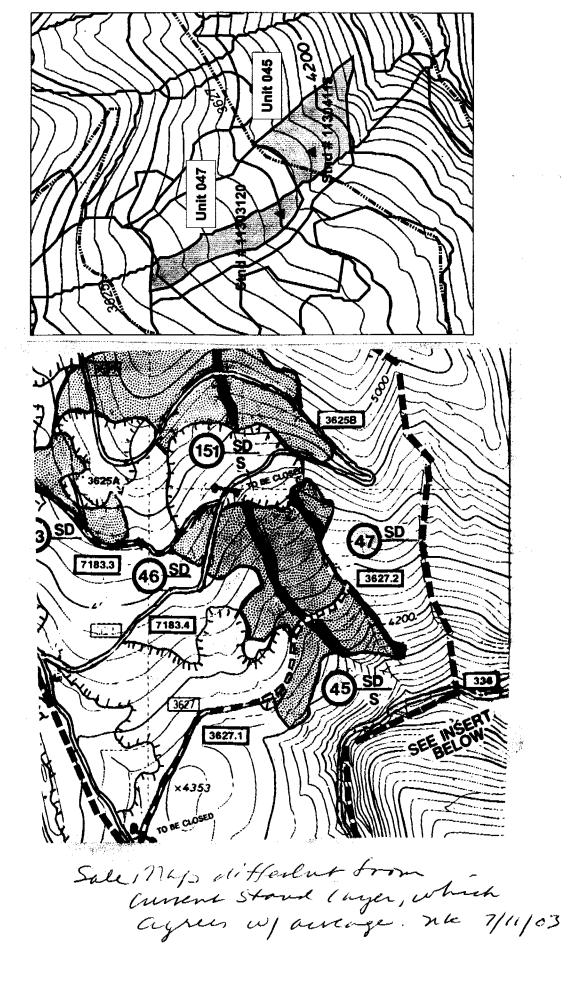
<u>COMPACTION(Heavy)</u> - any place where future vegetative growth will be significantly impacted, i.e., skid trails (both heavily and lightly used depending on amount of compaction related to soil moisture), landings, and other impacted areas. <u>COMPACTION(Light)</u> - any other area not included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

03/29/1996 1304/15 KOOT Rexford - North Fork West Fire Salvage I NATIONAL FOREST Unit 45 SOIL DISTURBANCE DATA FORM 11304115 DATE<u>3/29/96</u> CUTTING METHOD clippes / hand ennen Sullivan SKIDDING METHOD OBSERVER M DISTRICT HAZARD ABATEMENT Test Fire Schoope SILVICULTURAL 57 SALEN OPERATION PERIOD lan - Feb '96 Slope 25-30 Unit No. HT-533 El-4200 As-SE COMPACTION(Heavy) COMPACTION (Light) UNDISTURBED DISPLACED EXCAVATED SKID TRAIL SMZ/ROCK , COMMENTS Snow roads retions occur in on the landit en D. NA

Shape of Unit and Pattern of Transect



03/05/1996 1303120 Rexford - North Fork West FIre Salvage I NATIONAL FOREST Unit 47 SOIL DISTURBANCE DATA FORM 11303120 DATE 3 CUTTING METHOD____ ner /Enery SKIDDING METHOD_k OBSERVER *99 DISTRICT HAZARD ABATEMENT Fire Saloge SILVICULTURAL 57 SALEN cu OPERATION PERIOD Jen-Feb '91 HT-621, El-4500, As-52 COMPACTION(Heavy) COMPACTION (Light) UNDISTURBED DISPLACED EXCAVATED SKID TRAIL SMZ/ROCK COMMENTS () veration look very good: Lots of snow - snow Processing at Shape of Unit and Pattern of Transect

KOOTENAL NATIONAL FOREST 10/10/1996 SOIL DISTURBANCE DATA FORM Fortine - Twin Meadows FIre Salvage 35406069 Unit 1, 2, 3, 4 35407007 DATE Oct-10, 1996 CUTTING METHOD RREN 35406071/ 35407002 SKIDDING METHOD QBSERVER M 35407011 HAZARD TREATMENT **TSTRICT** ne selvage SILVICULTURAL TREATMENT 4 Spdes. SALE Unit No. 94 OPERATION PERIOD 1. 354-06-069 40A -09-009 12A COMPACTION (Heavy ርር 14 4 COMPACTION(Light) ረር reserves Seed cu JU. UNDISTURBED DISPLACED EXCAVATED SKID TRAIL ·· ~.___ SMZ COMMENTS & was wrong STun the occure al organic sent. aread very TRANSECT SHAPE OF UNIT AND PATTERN OF ogging in Units 1, 2+3 was excellent. agingialnit 4 was good. I would estimate leas than 5% heavy com COMPACTION(Heavy) - any place where future vegetative growth will be significantly

<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. <u>COMPACTION(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

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Weight Sale

ING ROAD, HAULING RESTRICTED, C5.12#

ROAD OPEN, B6.22

: CLOSED, C5.51#

FIED RECONSTRUCTION, B5.2, A9

AL TREATMENT AREA, C6.4#

AM MANAGEMENT ZONE, C6.50#

AMCOURSE PROTECTION, C6.51

E TREE MARKING, C2.35# (OPT C)

NATION FOR CUTTING.C2.352# (OPT 1) and PECIES DESIGNATION, C2.38#

DEAD STANDING, C2.38#

NAL SOURCE, C5.221#, A11

ING UNIT

AREA BOUNDARY

OTHER THAN FOREST SERVICE

10/10/96 walk through

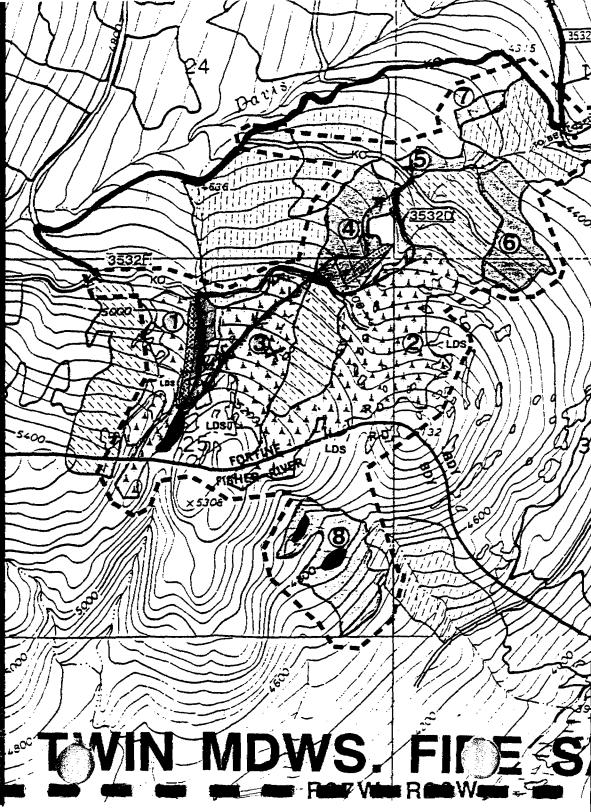
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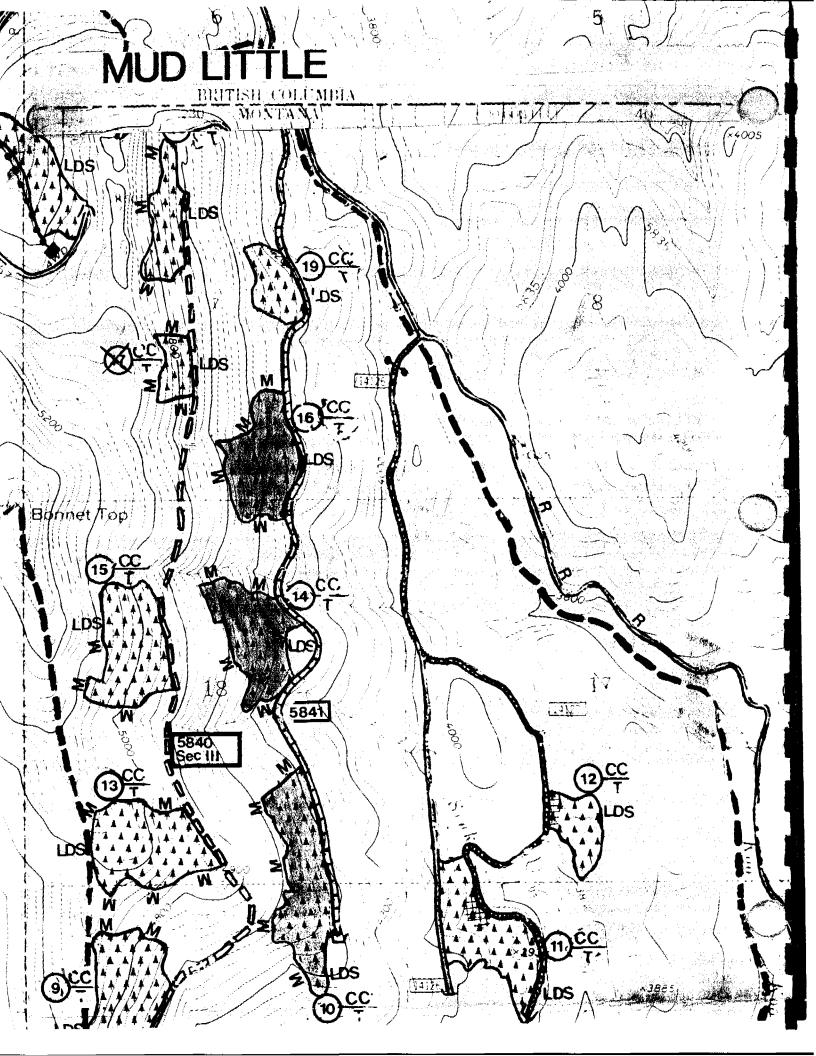
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10 42701178 - 39A 42764118 -140A 01/23/1996 **KOOTENAI NATIONAL FOREST** Three Rivers SOIL DISTURBANCE DATA FORM - Fowler DATE_ Fire Salvage CUTTING METHOD clipper / hand Unit 10 & 17 OBSERVERKuennen/Mellen DISTRICT Three Rivers 42701178 SKIDDING METHOD_ 42704118 HAZARD ABATEMENT SALE Fowler Fire Salvage Unit No. 10 + 17 SILVICULTURAL Regeneration Cut CC w/res T-732/740 El-5060-5200, As-SW-NWOPERATION PERIOD Jan'96 COMPACTION(Heavy) slope 25-35 Wal COMPACTION (Light) UNDISTURBED DISPLACED **EXCAVATED SKID TRAIL** SMZ/ROCK COMMENTS One in the Sum very Shape of Unit and Pattern of Transect



07/18/1996 1994 Grapplepilet, 1995 burn CC w/ Reserves Hand Sawn 16 4° KOOTENAI NATIONAL FOREST Three Rivers - Mud Little SOIL IMPACT DATA FORM Unit 14 42202162 Babahan Bild 42202165 DATE 7.18.96 OBSERVER Kulmen RTS also 10+164 DISTRICT Three Kivers SALE Mud Little UNIT # 14 422-02-162 25A Planted to WL, DF, WWP wH/Clun COMPACTION HEAVY COMPACTION LIGHT UNDISTURBED DISPLACED EXCAVATED SKID TRAIL SMZ ransecto were made. Looks like de. COMMENTS / at of the trails n e SHAPE OF UNIT AND PATTERN OF WALK THROUGH. Have some problem w/ unit layout on units 10, 14, 16.



09/17/1996 45303179 Three Rivers - Studebaker Fire Salvage KOOTENAI NATIONAL FOREST Unit 16 SOIL DISTURBANCE DATA FORM 45303179 рате<u>9-17-96</u> hand CUTTING METHOD SKIDDING METHOD ______ OBSERVER Kuennen DISTRICT Three Rivers HAZARD ABATEMENT SALEStudebahar F.S. SILVICULTURAL ST seed cut Unit No. OPERATION PERIOD Jan. '96 COMPACTION(Heavy) Walk through COMPACTION (Light) UNDISTURBED DISPLACED EXCAVATED SKID TRAIL SMZ/ROCK COMMENTS Small old debris failure in trainage. No impact to soil. Shape of Unit and Pattern of Transect/wath through

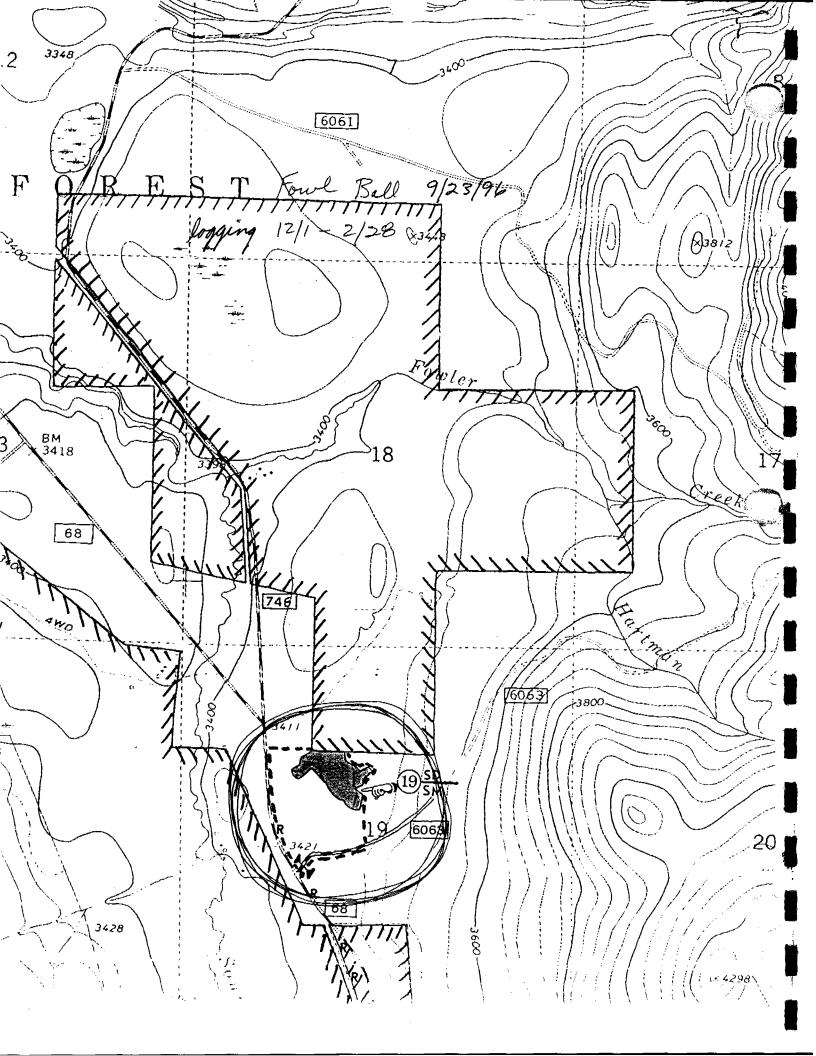
09/17/1996 3145 Three Rivers - Studebaker Fire Salvage Unit 17 ENAI NATIONAL FOREST 45303143 SOIL DISTURBANCE DATA FORM hand DATE 9-17-96 CUTTING METHOD Calm OBSERVERKyenne SKIDDING METHOD DISTRICT Three Rivers HAZARD ABATEMENT_ SALE Studebaher Fire Jabrage SILVICULTURAL Sw seed Unit No slope 35 OPERATION PERIOD Hug HT-624 FR-5500 COMPACTION(Heavy) Walk through COMPACTION (Light) UNDISTURBED DISPLACED EXCAVATED SKID TRAIL SMZ/ROCK COMMENTS SMA NOD non 01 loope wilman. Shape of Unit and Pattern of Transect Wulk - through

09/23/1996 KOOTENAI NATIONAL FOREST Three Rivers - Fowl Ball SOIL DISTURBANCE D'A FORM Unit 19 42702104 CUTTING METHOD 9.23.96 4. An DATE Bayonel Skidding Method Molley BSERVER HAZARD TREATMENT Excavator Pile DISTRICT SILVICULTURAL TREATMENT Spice Des. LPP Ball RE-AD SALE Unit OPERATION PERIOD Jan-1 SH through! 427-02-104 COMPACTION (Heavy) COMPACTION(Light) UNDISTURBED DISPLACED EXCAVATED SKID TRAIL SMZ COMMENTS / Ven anen une and a oil Sur AL unit. at the A SHAPE OF UNIT AND PATTERN OF TRANSECT

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



51404048 - 41 - 36 20 1/29/1996 **KOOTENAI NATIONAL FOREST** Libby - Sheldon Interface SOIL DISTURBANCE DATA FORM Unit 5 51404048/51704020 CUTTING METHOD DATE 1/29 nen 1 Corda SKIDDING METHOD KT OBSERVER_/ men DISTRICT Libby HAZARD ABATEMENT SALE<u>Sheldon</u> SILVICULTURAL Improvements OPERATION PERIOD Dec 95-lan '91. COMPACTION(Heavy) Through COMPACTION (Light) UNDISTURBED DISPLACED EXCAVATED SKID TRAIL SMZ/ROCK COMMENTS This Ara custed ul Low soil impus that Kosterni intern ver 12 Shape of Unit and Pattern of Transect/walk through

02/23/1996 E2301088 -11HLibby - Prospect Parmenter Unit 32 KOOTENAI NATIONAL FOREST 52301088 SOIL DISTURBANCE DATA FORM CUTTING METHOD <u>Caple</u> DATE Crimford OBSERVER 1ennen/ HAZARD ABATEMENT understing barn 197 DISTRICT) SILVICULTURAL Sw seed/reserve armenter SALE Unit No. 32 OPERATION PERIOD__ HT-312 El-3500, As-5 Shope 50 COMPACTION(Heavy) COMPACTION (Light) UNDISTURBED DISPLACED - 5. EXCAVATED SKID TRAIL SMZ/ROCK COMMENTS Shape of Unit and Pattern of Transect

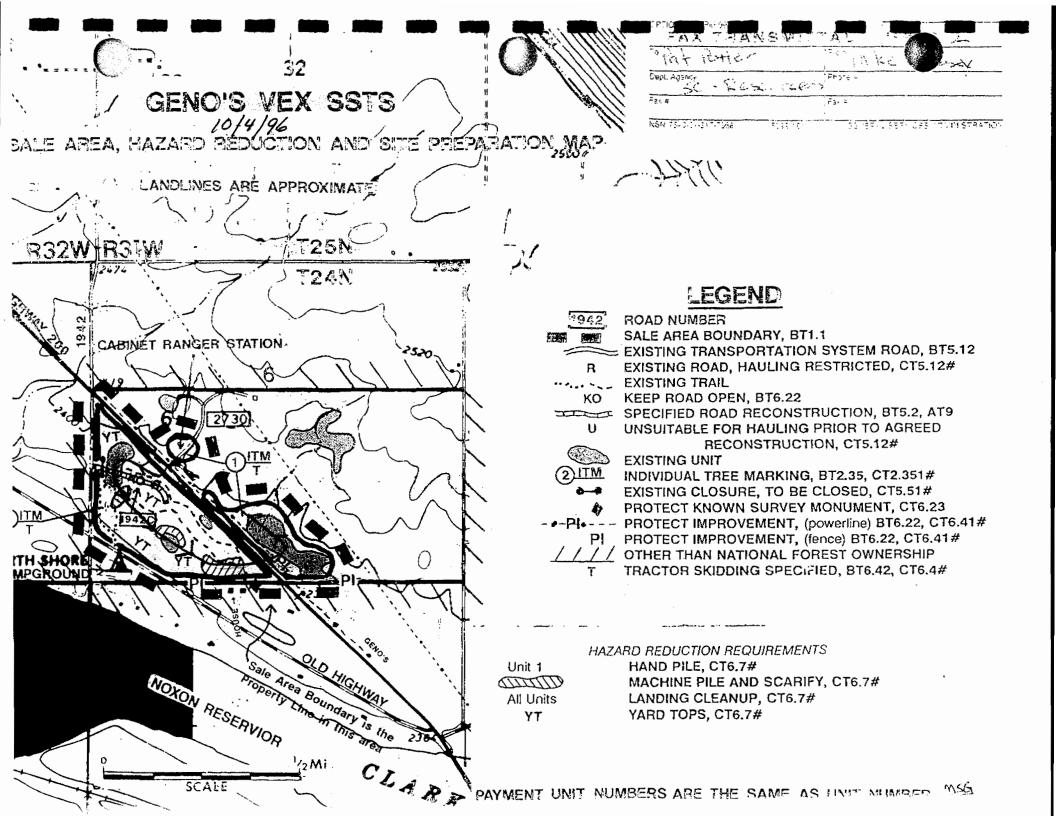
10/04/1996 SOIL DISTURBANCE DATA FORM Cabinet - Genos Vex SSTS 74103054 Unit 1 & 2 DATE Oct. 4, 1996 74101054/74105054 Hand CUTTING METHOD SKIDDING METHOD Horse SERVER 🔨 HAZARD TREATMENT DISTRICT (SILVICULTURAL TREATMENT 17M √ SSTS SALE (90 53AU Unit No. OPERATION PERIOD Summer 1996 23 Acre 14 Throas 741-05-054 COMPACTION (Heavy) COMPACTION(Light) UNDISTURBED DISPLACED EXCAVATED SKID TRAIL SMZ COMMENTS This wa Salan ren 0 m 0.0 ~a_ re accuni trails. SHAPE OF UNIT AND PATTERN OF TRANSECT

<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. <u>COMPACTION(Light)</u> - 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.

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SMZ - include within transect if within harvest unit.



10/04/1996 SOIL DISTURBANCE DATA FORM Cabinet - Pilik Horse Salvage 40601005 Unit 1 70601005 CUTTING METHOD DATE OCA (Howard) SKIDDING METHOD age BSERVER HAZARD TREATMENT ISTRICT SILVICULTURAL TREATMENT SALE Unit OPERATION PERIOD Summer 1996 Through !! 706-01-005 COMPACTION (Hear COMPACTION(Light) UNDISTURBED DISPLACED EXCAVATED SKID TRAIL SMZ COMMENTS was treits. shill trail an. minima SHAPE OF UNIT AND PATTERN OF TRANSECT

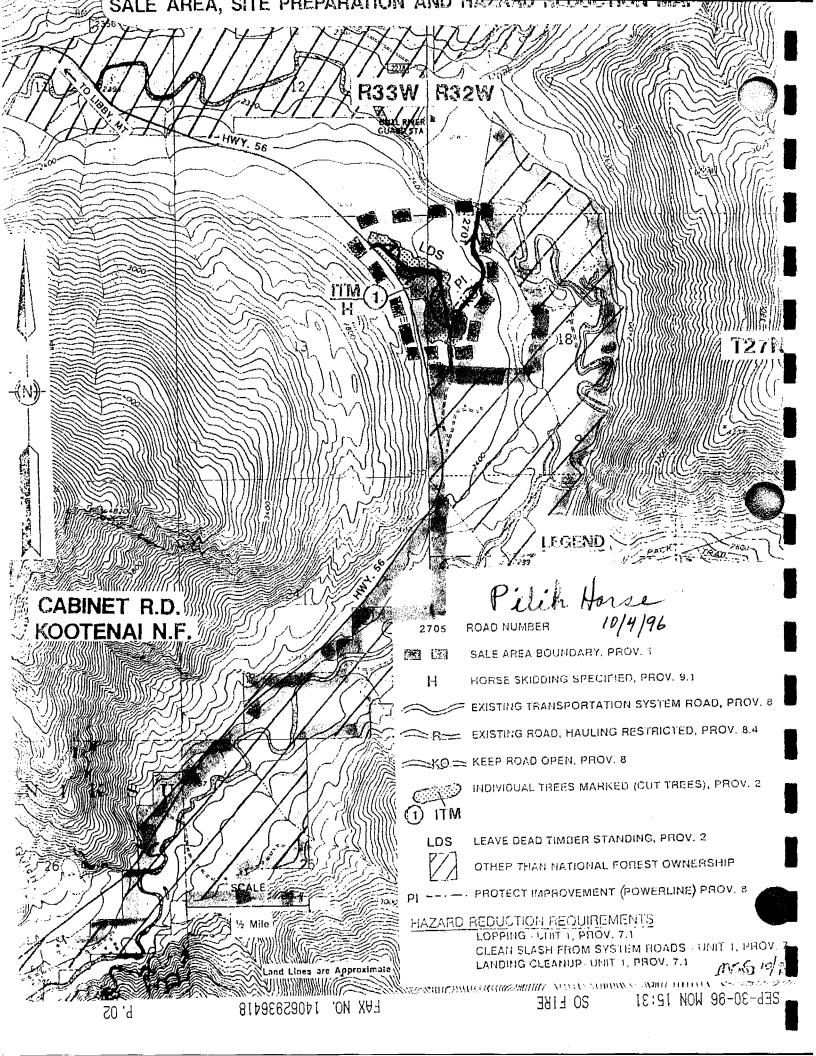
<u>COMPACTION(Heavy)</u> - any place where future vegetative growth will be significantly impacted, i.e., skid trails (both heavily and lightly used depending on amount of compaction related to soil moisture), landings, and other impacted areas. <u>COMPACTION(Light)</u> - any other area not included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

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06/28/1995 KOOTENAI NATIONAL FOREST Libby - Swede McMillan SOIL DISTURBANCE DATA FORM Unit 29 52904046 DATE 6 .28 .95 CUTTING METHOD SKIDDING METHOD RVER nnin DISTRICT HAZARD TREATMENT SALESwed SILVICULTURAL TREATMENT Unit No OPERATION PERIOD April w/ Times Williams (529-04-046 Acres -COMPACTION(Heavy) /// אידי אידו אידו איד אידעאלא אידעאל אידעאל אידעאל אידעאל אידעאל איד אידעאל איד אידעאלא ____55/475 DISPLACED // EXCAVATED SKID TRAIL SMZ COMMENTS slone :av. 3400'e to 50 /ds Sur SHAPE OF UNIT AND PATTERN OF TRANSECT - bottom of Unit arge cut slope COMPACTION(Heavy) - any place where fut, W impacted, i.e., skid trails (both heavi compaction related to soil moisture), 1 COMPACTION(Light) - any other area not UNDISTURBED - no signs of any machinery SPLACED - any place soil has been mounded by machinery, also include in heavy or gight compaction. SMZ - include within transect if within harvest unit. 5/93

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Disturbance.	Points	0/0	Points	0/0	Points	0/0	Points	9/0
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Light	15	21	125	21			140	21
Undist.	55	75	415	79			530	. 79
TOTAL	73	100	600	100			673	100
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Displaced.		<u> </u>	1	<u> </u>	<u> </u>			0
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06/28/1995 Libby - Swede McMillan Unit 31A 52904090

KOOTENAI NATIONAL FOREST SOIL DISTURBANCE DATA FORM

DATE 6:28 195	CUTTING METHOD Land
BSERVER Kuennen	SKIDDING METHOD Tractor
·	HAZARD TREATMENT whole Treeyard Compress
DISTRICT Lebby	1 total
SALE Swede-McMillan	SILVICULTURAL TREATMENTM
29-04-090 323	OPERATION PERIOD <u>Fil-</u> piled lenkin Acres <u>17</u>
COMPACTION(Heavy)7++++++++++++++++++++++++++++++++++++	
COMPACTION (Light) HH THE THE THE	HI THI THITHING THE THE THE THE THE 50/20
and will will an and it will will we have a stranger	דו איז איז איז איז איז איז איז איז איז איז
EXCAVATED SKID TRAIL	
SMZ	
COMMENTS Souther to Souther NESE Secto 729N	estaspect. Uniton point of pilge; 30.50 elo.
No surface ash layer	5% surface rock
SHAPE OF UNIT AND PATTERN OF TRAN	ISECT
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	310
	ere future vegetative growth will be significantly a heavily 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.

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

SMZ - include within transect if within harvest unit.

garte est							11 Tota]
-isturbance	Points	0/0	Points	0/0	Points	0/0	Points	010
Heavy	19	5	0	0			19	4
Light	50	14	20	20			70	_15
Undist.	301	81	80	80			381	81
ale m		112 12 124						
TOTAL	370	100	100				470	150
Displaced.								. 0
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09/11/1995 KOOTENAI NATIONAL FOREST Libby - Swede McMillan SOIL DISTURBANCE DATA FORM Unit 34 53101009 CUTTING METHOD clipping 9.11.90 DATE SKIDDING METHOD subber tise. ernen SERVER HAZARD TREATMENT Filed & scalped DISTRICT l Millar SILVICULTURAL TREATMENT SALESUR Unit No. OPERATION PERIOD Sept. 1993 Hcres 323 531-01-009 15/18 COMPACTION (Heavy) 80/284 XXXI. UNDISTURBED A ARAB BARBARA ARABARA 270 EXCAVATED SKID TRAIL SMZ COMMENTS 4bo; ensuel Ima SHAPE OF UNIT AND PATTERN OF TRANSE COMPACTION(Heavy) - any place where 4769E impacted, i.e., skid trails (both h Π compaction related to soil moisture COMPACTION(Light) - any other area not included in neavy 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

						1	11 Tota	
Disturbance	Points	0/0	Points	°/0	Points	0/0	Points	0].
Heavy	15	. 7	18	3			28	4
Light	80	53	284	50			364	50
Undist.	60	40	270	41			330	46
TOTAL	150	100	572	100			72z	100
Displaced	<u>_</u>	 	ll	 				0
- · · ·		i		I				

06/28/1995 Libby - Swede McMillan KOOTENAI NATIONAL FOREST Unit 46 SOIL DISTURBANCE DATA FORM 52904057 ś CUTTING METHOD Hand DATE 6128.95 varder SKIDDING METHOD uennen ERVER reanston HAZARD TREATMENT DISTRICT SALE Juele SILVICULTURAL TREATMENT Unit No. OPERATION PERIOD Larly April w/ Times + Williamol 322 Heres 529-04-05 3/4 COMPACTION (Heavy) /////// NN COMPACTION(Light)/H X X 35/20 127/60 416 DISPLACED ///////// EXCAVATED SKID TRAIL SMZ COMMENTS Surface loess laner prese inovition displacement from previous o_ver SHAPE OF UNIT AND PATTERN OF TRANSECT Three old ground skidding considers from the 20's cross thematic resulted in desplacement + heavy compaction Elev 3700 47680 <u>COMPACTION(Heavy)</u> - any place where future vegetat impacted, i.e., skid trails (both heavily and ligh, compaction related to soil moisture), landings, and COMPACTION(Light) - any other area not included in heavy COMPACTION or UNDISTURBED. NDISTURBED - no signs of any machinery or skidding activity. SPLACED - 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

Tota 0/0 0/0 0/0 Points Points Points Points 0% Disturbance 7 2 5 3 3 4 eavy 35 24 Light 21 20 ΖZ 55 77 71 Undict 127 60 187 75 AI 84 165 100 249 100 100 7 4 6 Displaced 4 2 10

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07/18/1995 Libby - West Pipe KOOTENAI NATIONAL FOREST Unit 17B SOIL DISTURBANCE DATA FORM 51203045 CUTTING METHOD Hand DATE 7:18:95 SKIDDING METHOD Tractor, mbber-tired ERVER uennen HAZARD TREATMENT <u>doner pile</u> 512-03-045 SILVICULTURAL TREATMENT <u>Seed free cut</u> DISTRICT _ (b) SALE West Unit No. 352 w/outwash OPERATION PERIOD Lite 1993 Oct. 93 piled-Sept. Buth men Kingelty D6D Tsuket/Cliumi Bothman 5/5 COMPACTION(Heavy) _____ 110/105 MMMMMMMM UNDISTURBED X X 30/40 20/60 DISPLACED ØØ EXCAVATED SKID TRAIL 23 sileremnants mer . disturbed w crop of bull + SHAPE OF UNIT AND PATTERN OF TRANSECT Unit NW side of draw COMPACTION(Heavy) - any place where future impacted, i.e., skid trails (both heavily compaction related to soil moisture), lan COMPACTION(Light) - any other area not incompaction of any machinery or skidding activity. ISPLACED - 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

						1	Tota]
Disturbance	Points	%	Points	°/0	Points	0/0	Points	010
Heavy	5	3	5	3			10	3
Light	110	76	105	70			215	73
Heavy Light Undist.	30	21	° 40	27			70	24
TOTAL	145	100	150	100			295	100
- 								
Displaced	20	14	60	40			80	27
	i	1		ł		•		

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07/18/1995 Libby - West Pipe KOOTENAI NATIONAL FOREST Unit 23 SOIL DISTURBANCE DATA FORM 51202064 Clippe 7.18.95 CUTTING METHOD DATE actor (winter? ERVER SKIDDING METHOD nen HAZARD TREATMENT DISTRICT 512-02-064 SILVICULTURAL TREATMENT SALE U Unit No OPERATION PERIOD 2/92 43A COMPACTION(Heavy) COMPACTION(Light) 53 X \mathbf{X} <u>[</u>15 UNDISTURBED \mathbb{N} X DISPLACED ٦ EXCAVATED SKID TRATL Dru No shidding in draw, Logo rem NAN COMMENTS. Durning has been comple 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. NDISTURBED - no signs of any machinery or skidding activity. SPLACED - any place soil has been mounded by machinery, also include in heavy or fight compaction.

SMZ - include within transect if within harvest unit.

Tota ~<u>/o</u> °/0 3 0/0 Points Points Points 0/0 Points Zistur banc 1 eavy 23 53 igh **`**-Undis 75 74 235 100 <u>3</u> Displaced



09/11/1995 KOOTENAI NATIONAL FOREST Libby - Prospect Parmenter SOIL DISTURBANCE DATA FORM Unit 20 52401104 CUTTING METHOD Clipper thand 9,11.95 DATE SKIDDING METHOD Rubber BSERVER men HAZARD TREATMENT DISTRICT Parmenter SILVICULTURAL TREATMENT SALE OPERATION PERIOD Early Feb. 1994 Acres 524-01-104 81510 COMPACTION (Heavy) COMPACTION(Light) XXXXXX: XXXXXXX <u>6</u>2/60/30 NNN 110/135/120 DISPLACED EXCAVATED SKID TRAIL SMZ R-12" COMMENTS Sphe, Potra ito, Ann SHAPE OF UNIT AND PATTERN OF TRANSECT 20 21 22 25 13 22 4 L COMPACTION(Heavy) - any place where future vegetative growth will be impacted, i.e., skid trails (both heavily and lightly used depending on compaction related to soil moisture), landings, and other impacted areas. COMPACTION(Light) - any other area not included in heavy COMPACTION or UNDIST 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

							11_Tota	
Disturbance	Points	0/0	Points	0/0	Points	0/0	Points	0
HEAVY	8	4	5	3	0	0	/3	2
Light	62	34	60	30	30	20	152	29
Undist.	110	62	135	67	120	80	365	69
TOTAL	180	100	200	100	150	100	530	100
Displaced.	+		Щ					0
				•				

м г 12°

09/26/1995 Libby - Barnum Unit 2 KOOTENAI NATIONAL FOREST SOIL DISTURBANCE DATA FORM 64401002 Clipped DATE 9,26.25 CUTTING METHOD tor shidded SKIDDING METHOD / Mrc. BSERVER KUCHNCH HAZARD TREATMENT Broad cast burn '96 (51/2) 594-01-002 DISTRICT SALE <u>Banum (644-01-002)</u> Unit No. 2 39A SILVICULTURAL TREATMENT Species Des. OPERATION PERIOD Hugusi SAF/Xete/Vage w/Viece spensed she \mathcal{O} COMPACTION (Heavy) XXXXX 170/90 NNX UNDISTURBED B B B A 40/110 10/10 DISPLACED \mathbf{N} EXCAVATED SKID TRAIL SMZ eptensin 5 a burlen angular COMMENTS 4-129 outh 1/2 30 -500 11era SHAPE OF UNIT AND PATTERN OF TRANSECT I wo stands involved; will ereak transect at stand bdy. 5800 COMPACTION(Heavy) - any place where futur impacted, i.e., skid trails (both heavily compaction related to soil moisture), lan COMPACTION(Light) - any other area not in 6090 (UNDISTURBED - no signs of any machinery c DISPLACED - any place soil has been mounded by machinery, also include in heavy or light compaction. 5/93 SMZ - include within transect if within harvest unit.

Tota 0/0 0/0 0/0 Points Points Points 0/0 Points ristur DANC D \mathcal{O} D \bigcirc \mathcal{O} 0 Heavy 90 170 81 45 260 igh 63 Prox 110 19 150 Undist. 55 40 37 ÷., 210 200 100 410 100 100 5 5 ./0 5 10 20

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09/26/1995 Libby - Barnum KOOTENAI NATIONAL FOREST Unit 4 SOIL DISTURBANCE DATA FORM 59401003 64401003 CUTTING METHOD Chren DATE 9,26,95 SKIDDING METHOD \mathcal{T} usinen ERVER 59401003 HAZARD TREATMENT Broadcast hum '91. DISTRICT Bernum 644-01-003 SILVICULTURAL TREATMENT $\leq D$ SALE Huguest/Sept. OPERATION PERIOD Xete m Vase. SHI /Mele, Durensed 30/30 COMPACTION(Heavy) 📈 COMPACTION(Light) ³⁰⁰/25t NX UNDISTURBED 90 110 70/0 DISPLACED X X X EXCAVATED SKID TRAIL SMZ COMMENTS lar en merch en we o não SHAPE OF UNIT AND PATTERN OF TRANSECT COMPACTION(Heavy) - any place where future 6090 impacted, i.e., skid trails (both heavily compaction related to soil moisture), lan <u>COMPACTION(Light)</u> - any other area not ind <u>NDISTURBED</u> - no signs of any machinery or skidding activity ISPLACED - any place soil has been mounded by machinery, also include in heavy or light compaction. 5/93 SMZ - include within transect if within harvest unit. ie D

Total ~<u>/o</u> 0/0 0/0 Points 0/0 Points Points Points îstur banc 60 7 8 . 7 30 30 Heavy 68 550 72 64 250 30-0 Ligh - 110 28 25 200 21 90 ndis 810 390 100 100 420 100 9 70 0 17 Displacen 70 D

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07/10/1995 1000110011001 1 -----Rexford KOOTENAI NATIONAL FOREST - Lawrence Mountain SOIL DISTURBANCE DATA FORM Unit 6 13001103 . 95 ' **.** . 10 CUTTING METHOD DATE en/Woolger SKIDDING METHOD brunan **OBSERVER** HAZARD TREATMENT DISTRICT SILVICULTURAL TREATMENT (SALE Unit No 1995 mes OPER PERTOD H_{1} COMPACTION (Heavy) COMPACTION(Light) UNDISTURBED DISPLACED EXCAVATED SKID TRAIL SMZ COMMENTS / VIAA Soi

SHAPE OF UNIT AND PATTERN OF TRANSECT

<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. JNDISTURBED - 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.

07/18/1995 Libby - Sheldon Doak KOOTENAI NATIONAL FOREST Unit 1 & 12 (20) SOIL DISTURBANCE DATA FORM 51404013 7.18. ATE CUTTING METHOD 67 SKIDDING METHOD **OBSERVER** HAZARD TREATMENT DISTRICT SILVICULTURAL TREATMENT SALE Unit No OPERATION PERIOD COMPACTION (Heavy) COMPACTION(Light) C 96 hum UNDISTURBED 196 94-95 1.1 DISPLACED EXCAVATED SKID TRAIL SMZ Decarionally OMMENTS een

SHAPE OF UNIT AND PATTERN OF TRANSECT

<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.

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

SMZ - include within transect if within harvest unit.

KOOTENAI NATIONAL FOREST 17=52401056 79Hcm 08/31/1995 Libby - Prospect Parmenter SOIL DISTURBANCE DATA FORM Unit 9, 13 & 17 52801021 52401009 52401056 CUTTING METHOD hand 8-31.95 ATE OBSERVER K SKIDDING METHOD DISTRICT -166 HAZARD TREATMENT SW prep c SILVICULTURAL TREATMENT Seedent SALE rospect Kanl OPERATION PERIOD Wal l. Throw COMPACTION(Heavy) COMPACTION(Light) Ele - 1900 AS-E El-3000 AS-N <u>Elo -3500</u> 399 01 HT 531 29 20-531 i4.4 41 520 902 W Prep Cu7 Seed LC. 81.74 reserves UNDISTURBED 195 rown Journ 196 RTS DISPLACED EXCAVATED SKID TRAIL SMZ COMMENTS Jemp. Re into Unit 9 could use little more reconforming. Unit 9 very good. Tractor shi 13/160ha ractor shidled. Ocarcionally little bit estra good. stacement - calle shilled - some goiging in cable carrilor. hoven good surface fraining corrections. Some ! l a SHAPE OF WNIT, AND PATTERN OF TRANSECT Rd 4729D 4729 #13 Rd 128 817 4129 #9 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.

06/21/1994 KOOTENAI NATIONAL FOREST Fisher River - Calx Mountain SOIL DISTURBANCE DATA FORM Unit 8 57701015 CUTTING METHOD ispered DATE 6. Kuthe SKIDDING METHOD BSERVERKUCMEnt de DISTRICT Fra HAZARD TREATMENT SILVICULTURAL TREATMENT SALE Unit No OPERATION PERIOD T-1 T-2 T-3 701 015 #9 25 4 (7-1) COMPACTION (Heavy) X X X X 1BBBT T-3 2 2 2 ... 151 111 L3 **34** -2 夏夏夏夏夏; 夏夏夏; 7-3 DISPLACED OF DIA OF DISPLACED 7-1 EXCAVATED SKID TRAIL SMZ COMMENTS Cock ONTErrop (6 paces) Amore + 2 . +3 (ナーハ area lundscape st oor sale edmentrator Klan contro ention SHAPE OF UNIT AND PATTERN OF TRANSECT Rd 6820E and 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. JISPLACED - any place soil has been mounded by machinery, also include in heavy or light compaction.

SMZ - include within transect if within harvest unit.

ota ° Points on Pointo Poin 0/0 Heavy Ligh Undia. $^{\circ}\mathcal{O}c$ laced Roc 71 4 72 I 394

DATE 6:30:94	CUTTING METHOD
OBSERVER Kuennen	SKIDDING METHOD Tractor
DISTRICT Libby	HAZARD TREATMENT Excavator Pile
SALE reput/Parmer	May SILVICULTURAL TREATMENT LTM
Unit Np. <u>/ 2/</u> 524-01-105	22A OPERATION PERIOD Winter 93-94
COMPACTION(Heavy) K.	13
	مج
COMPACTION(Light)	
A A COMPACTION(Light) A A B B B A A A A A A A A A A A A A A A	
COMPACTION(Light)	
A A COMPACTION(Light) A A B A B A A A A A A A A A A A A A A A	
EX COMPACTION(Light) COMPACTION(Light) COMPACTION	
Image: State	
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COMPACTION (Light) Compaction (Light) Compaction (Light) Compact of the constraint o	

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.

Upper Lower Tota 0/0 0/0 0/0 0/0 Points Points Points Points Disturbance 4 4 33 6 20 Heavy 13 • 58 265 437 55 172 51 Ligh 150 175 <u>38</u> 325 45 ndist 41 795 <u>335</u> 460 100 100 100 12 36 3 4 12 24 Displaced -4 29 SMZ

22-524CUCG KOOTEN. SOIL DI	AI NATIONAL STURBANCE D	FOREST RB-SR4CHC7	
06/30/1994 Libby - Prospect Parmenter			
Jnit 22 & 23 52401106 52401106			
DATE 6.30.94	CUTTING	METHOD	
DBSERVER Kuennen		G METHOD Tractor	
DISTRICT		TREATMENT Gravator Pile	
SALE Prospect/Parmenter Unit No. 22 + 23 4+61	SILVICU A	LTURAL TREATMENT LTM	
524-01-106 2 23-524-01	ΟΡΈΡΔΤΙ	ON PERIOD Winter 93-94	
	1	23	
COMPACTION(Heavy):			0
COMPACTION(Light)	48		<u>65</u> 80
UNDISTURBED X X	30		50
DISPLACED !		177	water bas
EXCAVATED SKID TRAIL			<u> </u>
SMZ			<u> </u>
COMMENTS		· · · · · · · · · · · · · · · · · · ·	<u> </u>
H.T. DF/Phma -> GF/Phma			
old logging activ	ity	old logging arti	ates
16 200'			
15-30% slopes	····	1 - 35 balopes	
SHAPE OF UNIT AND PATTERN OF TRANSEC	T		
ъ.			
$\leq \langle \rangle$			
\mathcal{U}			
COMPACTION(Heavy) - any place where	future vero	tative growth will be significant	-1
uny praco whore	- active vege	ightly used depending on amount of	- L Y

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

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

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McMittan

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09/03/1993 Fortine - Zeller Creek Unit 11 35601057		NATIONAL FOREST URBANCE DATA FORM
DATE <u>7.3.93</u>	· 	CUTTING METHOD <u>clipper/hand</u>
JBSERVER Kuenk	1en	SKIDDING METHOD machine
DISTRICT Fortin	<u>e</u>	HAZARD TREATMENT not done
SALE Zeller G	· · · · · · · · · · · · · · · · · · ·	SILVICULTURAL TREATMENT LTM
Unit No. 11 356-0/-	214 057	OPERATION PERIOD Winter 92-93
COMPACTION(Heavy),	<u> </u>	·
COMPACTION(Light)		
UNDISTURBED Z Z Z		
DISPLACED		
EXCAVATED SKID TRAIL		
SMZ		
COMMENTS Several of	Leeves + list	It are from all activities. let transact.
on eastern part	of whit.	
Three transe	to run.	Good looking operation.
· · · · · · · · · · · · · · · · · · ·		
		· · · · · · · · · · · · · · · · · · ·
AMOUNT OF No.of Per- DISTURBANCE Paces cent	No.of Per- Paces cent	
Heavy dis-	SECT	
Light mod	<u>+</u> ++	
disturbance 3/5 54		
Undisturbed 260 45		
TOTAL 580 100		
Displaced	<u></u>	
		5 • • • • • • • • • • • • • • • • • • •
		ture vegetative growth will be significantly
		vily and lightly used depending on amount of landings, and other impacted areas.
		included in heavy COMPACTION or UNDISTURBED.
		y 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.

	_	Transe	ect 1	Transe	ect 2	Transe	ect 3	Transe	<u>ect 4</u>	Transe	ect 5	TOT	LS
		Pts.	8	Pts.	8	Pts.	9 0	Pts.	8	Pts.	- 1 -	Pts.	oło
D i	HEAVY	5	4	0	0	0	O					5	
s t	LIGHT	60	48	140	58	115	53					315	54
u r	UNDISTURB	60	48	100	42	100	47					260	45
b				l	L				I				
T	TALS	125	100	240	100	215	100		1			580	100
]. 	 	 	 		
	DISPLACED		 		}			} }		1	 		
	EROSION]					- -			1			
	PUDDLED	 	\ 	k 	 	↓ 	⊧	I 	 ```	 .	+ 		
	SMZ	<u> </u>	L 	L 	[] 		 1		└──── 1	↓ 1	 		
	ROCK	 1	↓ 	 .	 	<u>}</u>] !	 	 	 	 	 	 	
	BURN PILES	<u> </u> 	L [1	↓ 	 	 	└─── ── 	└───── 	└──── 	<u> </u> 	<u></u> 	 	

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09/03/1993 KOOTENAI NATIONAL FOREST Fortine - Zeller Creek SOIL DISTURBANCE DATA FORM Unit 12 35601058 3 / 93 2. CUTTING METHOD DATE OBSERVER (bertice sona ernen SKIDDING METHOD ne DISTRICT HAZARD TREATMENT SALE 60 SILVICULTURAL TREATMENT Unit No. OPERATION PERIOD HUG. 356-01-058 43 360 183 DISPLACED DISPLACED EXCAVATED SKID TRAIL SMZ COMMENTS Fin 13 05 bran m month Sistel tion war on we Not al good No.of Per-AMOUNT OF No.of Per-DISTURBANCE Paces cent Paces cent NSECT Heavy disbance Light, mod. disturbance Undisturbed TOTAL 520 Displaced 65 wenter transmission and 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.

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-	Transe	<u>ect 1</u>	Transe	ect 2	Transe	ect 3	Transe	ect 4	Transe	ect 5	TOTA	LS
· ·	Pts.	*	Pts.	*	Pts.	9 7 0	Pts.	olo	Pts.	8	Pts.	oto
D HEAVY i	27	9	20		15	9	28	9			90	8
s LIGHT t	190	60	170	61	85	49	220	67			665	61
u UNDISTURB	93	30	90	32	75	43	80	24			338	31
ь											1	
TOTALS	310	100	285	100	115	100	328	100			1093	100
DISPLACED	21	.7	19	7	.10	6	15	5			65	6
EROSION	ļ ļ											
PUDDLED						i.				 	 	
SMZ		· .					[
ROCK	 					••••••••••••••••••••••••••••••••••••••	(
BURN PILES		•				<u> </u>						

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08/26/1993 Troy - Arbo Fire Salvage Unit 1 45002126

KOOTENAI NATIONAL FOREST SOIL DISTURBANCE DATA FORM

DATE 8.26,93	CUTTING METHOD clipper
OBSERVER L. Kuennen	SKIDDING METHOD tractor
DISTRICT Troy	HAZARD TREATMENT <u>spot pile</u> , <u>15 Tons</u>
SALE <u>Arbotice Jalvage</u> Unit No. <u>1</u> 43A	OPERATION PERIOD October 92
450-02-124	OPERATION FERIOD CLOVEN JC
COMPACTION(Heavy) X X X X X	<u>59</u> 60
COMPACTION(Light) COMPACTION(Light) COMPACTION	AXXXXXXXX [90 [47
UNDISTURBED ARE ARE ARE ARE ARE ARE ARE ARE ARE ARE	
DISPLACED BR R R	що 40
EXCAVATED SKID TRAIL	<i>10</i>
	30/30
COMMENTS See comments unit 4.	
Unit 1 -	
AMOUNT OFNo.ofPer-No.ofPer-DISTURBANCEPacescentPacescent	
Heavy dis- bance 119 15 EC	ENV AND
Light, mod. disturbance 337 43	
Undisturbed 327 42	
TOTAL 783 190	
Displaced 40 5	10
impacted, i.e., skid trails (both here compaction related to soil moisture)	future vegetative growth will be significantly avily and lightly used depending on amount of , landings, and other impacted areas. ot included in heavy COMPACTION or UNDISTURBED. erv 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.

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	Transe	<u>ect l</u>	Transe	ect 2	Trans	ect_3	Trans	sect 4	Trans	ect 5	TOTA	LS
	Pts.	010	Pts.		Pts.	8	Pts.	8	Pts.	8	Pts.	÷
D HEAVY i	59	13	60	18	1)] 	119	15
s LIGHT t	190	44	147	43					 		337	43
u UNDISTURB	194	44	133	39			 	 	 	 	327	42
b	<u> </u>	• /				İ	<u> </u>		ļ	I		
TOTALS	443	100	340	100		İ	L			ļ	783	100
DISPLACED	20	5	10	3	 		- 		 	 	30	4
EROSION	17	2	3	1					 	 	10	1
7 PUDDLED		}			1		1	1				
SMZ	30	7	30	9							60	8
ROCK								 				
BURN PILES												

08/26/1993 Troy - Arbo Fire Salvage Unit 2 45002122 / 45005159

KOOTENAI NATIONAL FOREST SOIL DISTURBANCE DATA FORM

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	<u>8.2</u>	_/			C	UTTIN	G METH	OD <u> </u>	lip	<u>per</u>	bou	m,	M	nd -	top	
OBSERV	rer <u>L</u> ,	<u>Kne</u>	nnen		S	KIDDI	NG MET	HOD_Z	nic	or-	601	ton	yle	nl-	top	
DISTRI	ст	Troy			н	AZARD	TREAT	MENT_	Spo	t p	ile	, /	151	ono	-	
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 $\overline{\text{DISPLACED}}$ - 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.

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08/26/1993	
Troy - Arbo Fire Salvage	KOOTENAI NATIONAL FOREST
Unit 4 45002175	SOIL DISTURBANCE DATA FORM
45002175	
PATE 8,26,93	CUTTING METHOD
July and the second	CUTEDITING METHOD +
observer <u>L. Kuennen</u>	SKIDDING METHOD Tractor
Dramprom To	HAZARD TREATMENT Spot ails, 15 Ton
DISTRICT_/roy	ARZARD IREAINENT Spin and 15 1 07
SALE Arbo Fire Salu	age SILVICULTURAL TREATMENT CC w/R/ plant
Unit No. 4	ZIA SIEVICOLICKAL INEATIMENT CA W/I/ POLICI
	OPERATION PERIOD Summer 93 July Aug.
450-02-1	13
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COMPACTION (Heavy) 8 1 2	<i>3 V</i>
X X 17 29	
COMPACTION (Light) NO O O	m 🕅 🕅 • · · 82
	//0
UNDISTURBED S S S S S S	XXXXXX 133
	1 127
DISPLACED 🛛 🖉	20
EXCAVATED SKID TRAIL	
SMZ X X X X X	30/30
COMMENTS Landing area	should be rigged; better waterbars on landing.
I Unit boundar muche	I towater course. Heavier marking in (SMZ) chalmel
Vanks, Two drainese	a will 60-70 of oach athen separate with 1+4.
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	f Per- s cent
teavy dis- bance 59 12	SECT
Light, mod. Histurbance 192 38	
Indisturbed 260 50	
KGUSU	
TOTAL 511 100	
Displaced 20 4	
COMPACTION (Heavy) - any pl	ace where future vegetative growth will be significantly
impacted, i.e., skid trail	s (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

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s +	LIGHT	82	33	110	41					 	 	192		
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r L		1										200		
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	ROCK									<u></u>	1.7 4		IN N A	
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06/07/1993 Yaak - Ten Left Fire Salvage KOOTENAI NATIONAL FOREST Unit 10 SOIL DISTURBANCE DATA FORM 40202127 / 40203149 6-7.93 CUTTING METHOD Hand DATE OBSERVER Moeller + Kulennen SKIDDING METHOD FMC on Snow roads HAZARD TREATMENT DISTRICT Fire Salvage SALE TOM SILVICULTURAL TREATMENT Unit No. OPERATION PERIOD Winter 92-93 Fourth of July Salvage 402-02-14 No Druganie 111111111 COMPACTION (Light) THE THE THE THE THE 26 HH HH HH 20 92 98 21 " DISPLACED THUTH THE HULL 21 THETHER THE EXCAVATED SKID TRAIL SMZ COMMENTS Ald arouth erston-attice removed mosto Koc N10 and a Unit 10 No.of Per-No.of Per-AMOUNT OF Paces cent Paces cent DISTURBANCE SECT Heavy dis-0 bance Light, mod. 46 20 5.8 disturbance Undisturbed 9 \mathcal{D} 8C TOTAL Displaced 8 COMPACTION (Heavy) any place where future vegetative impacted, i.e., skid trails (both heavily and lightly compaction related to soil moisture), landings, and $\dot{\mathcal{O}}$ COMPACTION(Light) - any other area not included in hes UNDISTURBED - no signs of any machinery or skidding at DISPLACED - 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	<u>ect 2</u>	Trans	<u>ect 3</u>	Trans	ect 4	Transe	ect 5	TOT	ALS
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s LIGHT t	26	22	20	17	 				1	1	46	20
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b TOTALS	119	190	118	100					1	1	237	100
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06/07/1993	
Yaak - Fourth Cyclone Fire Salv	/age
Unit 9	
40201126 / 40201128	

KOOTENAI NATIONAL FOREST SOIL DISTURBANCE DATA FORM

4020112674	40201128		Southand BAIN FORT
ATE_6	.7.93	· /	CUTTING METHOD Hand
OBSERVER	Noeller-K	ulmen	SKIDDING METHOD Rubber fine
DISTRICT	Troy		HAZARD TREATMENT
SALE Fou	rth-Cyc	lone Fire Sal	VILVICULTURAL TREATMENT
	402-01-	128 46A	OPERATION PERIOD <u>Summer 92?</u>
		1+1+1+1+1+1+1+1+++	
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Roch-1			
			/#158AI
	Unit 9		
AMOUNT OF	No.of Per-		
DISTURBANCE Heavy dis-		[
bance	35 14	ERN OF TRANSECT	B
Light, mod. disturbance	80 32		KO
Undisturbed	135 54		3941
TOTAL	350 100	İ	TIM CE
Displaced	10 28		
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<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. <u>COMPACTION (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. <u>SMZ</u> - include within transect if within harvest unit. <u>5/93</u>

	Trans	ect 1	Trans	ect_2	Trans	ect 3	Trans	ect 4	Trans	ect 5	TOT	ALS	Ĺ
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ROCK			- 	 	+	- 		+ 		 		+	
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08/25/1993 Libby - Butler Didit Unit 2 56503042

KOOTENAI NATIONAL FOREST SOIL DISTURBANCE DATA FORM

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STRICT <u>fisher River</u> fim HAZARD TREATMENT <u>Brookcast burn (not be</u> LE <u>Ruther Diffit 645-0</u> 3-042 SILVICULTURAL TREATMENT <u>seed tree</u> Unit No. <u>2</u> 24 Area OPERATION PERIOD <u>Prid July</u> South westerly repert, els. 74350 MPACTION(Heavy) MPACTION(Light) CEINER 39 DISTURBED CEINER CEINER 29 SPLACED CAVATED SKID TRAIL Z MMENTS <u>Transent & 12 way down from Rd 14566</u> Unit 2 No. of Per- DISTURBANCE Paces cent Paces cent Heavy dis- Dance 39 8 Light, mod. disturbance Unit SIB 100 14507 200 200 200 200 14507 200 200 200 200 200 200 200 2	te <u>8·25</u>	,93	<u></u>		CUTTING METHOD Hand
All <u>Eutlen Dikit</u> 66-03-042 SILVICULTURAL TREATMENT <u>seedfree</u> Unit No	BSERVER	uenn	en		
ALE <u>Eutlen Tehlt</u> 66-03-042 SILVICULTURAL TREATMENT <u>seedtree</u> Unit No. <u>2</u> 24 flower OPERATION PERIOD <u>Mid July</u> Short on South side of unit South westerly aspect, ele. 3 4350 MPACTION(<u>Heavy</u>) MPACTION(<u>Light)CX MBN 39</u> MPACTION(<u>Light)CX MBN 39</u> MDISTURBED <u>B C M M C T M C T M M C T M M C T M M C T M M C T M M C T M M C T M M C T M C T M M C T M M C T M M C T M M C T M M C T M M C T M M C T M M C T M C T M M C T M M C T M C T M M C T M C T M M C T M </u>	ISTRICT Fish	nhi	er fin	\	HAZARD TREATMENT Broodcast burn (not las
Starton South side of unit South westerly repert, ele. 3:4350 DMPACTION(Heavy) DMPACTION(Light) (I ight)	LE <u>Butter I</u>	zilit 6	<u>15-0</u> 3-1	ЧZ	
DMPACTION(Heavy) DMPACTION(Light) CX MBQ 39 DMPACTION(Light) CX MBQ 39 DMPACTION(Light) CX MBQ 39 DMPACTION(Light) CX MBQ 39 DMISTURBED & GREAR CREA				?crea	OPERATION PERIOD Mid July
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Undisturbed 479 92 145 TOTAL 5/8 100 6		39 8	3		14567
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<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. <u>COMPACTION(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.

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BURN PILES	1	1	1	1		1	1		1	1	1	1	

08/25/1993 Libby - Butler Didit Unit 4A 56503045

KOOTENAI NATIONAL FOREST SOIL DISTURBANCE DATA FORM

ATE 8.25	·93				CUTTING METHOD Hard
BSERVER L.	Kuen	iner	1		SKIDDING METHOD Tractor
ISTRICT). ive	1		HAZARD TREATMENT underburn
ALE Butte		ilit	-		SILVICULTURAL TREATMENT Seed free
Unit No.	4A	alo	<u>ve</u> ro	l	OPERATION PERIOD August '93
615	-03-0	945		7A	cres
OMPACTION(Hea	avy) 🗷 🖉		25		
OMPACTION(Li	ght) 🚮 🗗	र हा हो	ZZZ		/02
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			/		
ISPLACED					
ISPLACED					
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	a a sh rd a k contr			,	maleted uet! Small sing of un
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AMOUNT OF DISTURBANCE	contr Contr Unit	4A Per-	ted to	Per-	maleted uet! Small sing of un
AMOUNT OF DISTURBANCE Heavy dis-	Unit No.of Paces	4A Per- cent	No.of	Per-	mpleted yet! Small size of un her nearly disturbance.
AMOUNT OF DISTURBANCE Heavy dis- bance	unit Contr Unit No.of	4A Per-	No.of	Per-	maleted uet! Small sing of un
AMOUNT OF DISTURBANCE Heavy dis- bance Light, mod.	Unit No. of Paces 25	YA Per- cent B	No.of	Per-	mpleted yet! Small size of un her nearly disturbance.
AMOUNT OF DISTURBANCE Heavy dis- bance Light, mod. disturbance	Unit No. of Paces 25	4A Per- cent	No.of	Per-	mpleted yet! Small size of un her nearly disturbance.
AMOUNT OF DISTURBANCE Heavy dis- bance Light, mod.	Unit No. of Paces 25 102	HA Per- cent B 30	No.of	Per-	mpleted yet! Small sing of un her heavy disturbance.
AMOUNT OF DISTURBANCE Heavy dis- bance Light, mod. disturbance Undisturbed	Unit No. of Paces 25 102	YA Per- cent B	No.of	Per-	mpleted yet! Small sing of un her heavy disturbance.
AMOUNT OF DISTURBANCE Heavy dis- bance Light, mod. disturbance	Unit No. of Paces 25 102	HA Per- cent B 30	No.of	Per-	Meted yet. Small size of us her heavy disturbance.
AMOUNT OF DISTURBANCE Heavy dis- bance Light, mod. disturbance Undisturbed	Unit No. of Paces 25 102	HA Per- cent B 30	No.of	Per-	mpleted yet! Small sing of un her heavy disturbance.
AMOUNT OF DISTURBANCE Heavy dis- bance Light, mod. disturbance Undisturbed TOTAL	Unit No. of Paces 25 102	HA Per- cent B 30	No.of	Per-	Meted yet: Small size of us her heavy disturbance.
AMOUNT OF DISTURBANCE Heavy dis- bance Light, mod. disturbance Undisturbed	Unit No. of Paces 25 102	HA Per- cent B 30	No.of	Per-	Meted yet: Small size of us her heavy disturbance.

<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.

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

 $\underline{\text{DISPLACED}}$ - 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	Trans	ect 3	Transe	ect 4	Transe	ect 5	TOT	ALS	
	Pts.	ક	Pts.	જ	Pts.		Pts.	8	Pts.		Pts.	ક	
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	Unit 5 a	Butler Di			S			TIONAL FO ANCE DATA		vaj uge -					
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	SALE	Butle	n Di				SI	LVICULTU	RAL TRE	EATMENT	5-0	<u>L</u> w	re / re	n Sal	es
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08/25/1993 Libby - Butler Didit Unit 8 56503050 / 61503050

KOOTENAI NATIONAL FOREST SOIL DISTURBANCE DATA FORM

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DATE 8.25.93	CUTTING METHOD Hand
OBSERVER L. Kuennen	SKIDDING METHOD Tractor
DISTRICT Fisher River	HAZARD TREATMENT Underburn
SALE <u>Butler Didit</u> Unit No. <u>8</u>	SILVICULTURAL TREATMENT Seed tree
DF/Phma 615-03-050	D OPERATION PERIOD August
COMPACTION(Heavy) 22	······································
COMPACTION(Light)	17: 9 <u>5</u>
UNDISTURBED DE CARA CARA CARA CARA CARA CARA CARA CAR	
DISPLACED	· · · ·
EXCAVATED SKID TRAIL	
SMZ	
COMMENTS Burning not Co	mplete yet.
Lanttypes foil combing tion	of 303 + 302. Outcrows echoced in
int, enperially along rilgo.	1 bt sangular rock in gold Original
All the of whe withing was the	meling water to next waterbar.
Extra pulashi work helped	elot.
+ Rrado - drive Munich dias	took aseas - Like good into bracks
like hanling occurret and ver	wethous why us when barson
TRANSECT	first two miles of road ??
Unit 8 4KO	
AMOUNT OF No. of Per- No. of Per-	
DI TURBANCE Paces cent Paces cent	LDS
Heavy dis- bance 32/3	600 TANK (7) LTM A GALTH
Lint, mod. B	LINGS
disturbance 93 3/	SMR SMR
125 50	
TC AL 252 100	LDS+115+7+F
	landings, and other impacted areas. t included in heavy COMPACTION or UNDISTURBED.
y machine	ry or skidding activity.
	ounded by machinery, also include in heavy or
light compaction. SMZ - include within transect if with	in harvest unit. 5/93

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	Trans	ect 1	Trans	<u>ect 2</u>	Trans	ect 3	Transe	ect 4	Trans	ect 5	TOT	ALS
	Pts,	8	Pts.	8	Pts.		Pts.		Pts.	8	Pts.	*
HEAVY		ļ	1			1		l				I
LIGHT						<u> </u>		 	 	 	 	<u> </u>
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	<u> </u>	L		 		<u> </u>	 		 	 	· · ·	
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Jnit 8	ek Pest Control	KOOTENAI	NATIONAL FOREST
			URBANCE DATA FORM
57503002			
D	24.93		CUTTING METHOD Hand
date <u>7.5</u>	<u> </u>		COTTING METHOD / Jana
BSERVER L	Kuen	nen	SKIDDING METHOD Practor
G	·AP	*	
DISTRICT 1	oker Ke	ver	HAZARD TREATMENT Proposed ich pot
SALE Sm	, ka C	PC	SILVICULTURAL TREATMENT 12 sheltenoord
Unit No.	one (sò	23A	
	<u> </u>		OPERATION PERIOD Winter 92-93 on Sno
60	25-03-00		
			4
COMPACTION(H	leavy)' 🕅 🗌	NA	••••••••••••••••••••••••••••••••••••••
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DISPLACED	XXXX		
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EXCAVATED SK	ID TRAIL	· · · · · · · · · · · · · · · · · · ·	
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SMZ			
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· · · · · · · · · · · · · · · · · · ·	ted trac	le rought Ran ta	In horizontel. Don't appen to have arsects up & Low Whill to avoid
· · · · · · · · · · · · · · · · · · ·	ted track	le rought Ran the	In horizontel. Don't appen to have ensects up & Sown hill to avoid
· · · · · · · · · · · · · · · · · · ·	ted fran Jassing ling dje	le rought Ran An	la horizontel. Don't appear to have ersects up & low hill to avoid
· · · · · · · · · · · · · · · · · · ·	ted trac	La rought Kan, Tr	In horisontel. Don't appear to have ersects up & Low Whill to avoid
COMMENTS <u>Excand</u> been ne purallel AMOUNT OF	No. of Per-	Kan, Tr Kan, Tr waturn No.of Per-	horizontel. Don't appen to have bracks up t low Thill to avoid
COMMENTS <u>Excand</u> <u>been ne</u> <u>purallel</u> AMOUNT OF DISTURBANCE	No. of Per- Paces cent	No.of Per- Paces cent	In horinontel. Don't appear to have ersects up & low whill to avoid
COMMENTS Excara been ne purallel AMOUNT OF DISTURBANCE Heavy dis-			In horisontel. Don't appear to have ersects up & Low Mhill to avoid
COMMENTS Excara been ne purallel AMOUNT OF DISTURBANCE Heavy dis- bance			horimontel. Don't appear to have arsects up & four hill to avoid
COMMENTS Excern been ne fundled AMOUNT OF DISTURBANCE Heavy dis- bance Light, mod.			a horinontel. Don't appear to have arsects up & low of hill to avoid
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COMMENTS Excern been ne fundled AMOUNT OF DISTURBANCE Heavy dis- bance Light, mod.			horimontel. Don't appear to have ansects up t down hill to avoid
COMMENTS Excern been ne parallel AMOUNT OF DISTURBANCE Heavy dis- bance Light, mod. disturbance			a horimontel. Dont appens to have arsects up t down hill to avoid
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COMMENTS Excern been ne fundled AMOUNT OF DISTURBANCE Heavy dis- bance Light, mod. disturbance Undisturbed TOTAL			horimontel. Don't appear to have anserts up t down hill to avoid
COMMENTS Excan been ne purallel AMOUNT OF DISTURBANCE Heavy dis- bance Light, mod. disturbance Undisturbed			horimontel. Don't appear to have ansects up t down hill to avoid
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COMMENTS Excan been ne parallel AMOUNT OF DISTURBANCE Heavy dis- bance Light, mod. disturbance Undisturbed TOTAL Displaced	Paces cent 44 5 277 30 600 65 921 106 50 5	Paces cent	
COMMENTS Excard been ne purallel AMOUNT OF DISTURBANCE Heavy dis- bance Light, mod. disturbance Undisturbed TOTAL Displaced COMPACTION(H impacted, i.	Paces cent 445 37730 60065 92166 92166 eavy) - any particular e., skid trai	Paces cent	Aninontel. Dont angua to have traces up t four hill to avoid

UNDISTURBED - no signs of any machinery or skidding accivity. DISPLACED - any place soil has been mounded by machinery, also include in heavy or light compaction.

 \underline{SMZ} - include within transect if within harvest unit.

-	Trans	ect 1	Transect 2		Transect 3		Transect 4		Transect !		5 TOTALS		
	Pts.	18	Pts.	કે	Pts.	ક	Pts.	8	Pts.	90	Pts.	8	
HEAVY	2	11	18	7	17	7	7	3			44	5	1
LIGHT	50	33	60	22	60	25	107	41	1	1	277	30	
UNDISTURB	100	66	190	71	160	68	150	57			600	65	+-
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OTALS	152	100	268	100	237	100	264	100	}		921	100	Ť
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DISPLACED	10	7	15	10	13	5	12	5	 		50	5	¶ess.' ∎
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SMZ		<u>(</u>].•()	173 ²³	2 2			121	× 2	令受		1005	5.2.1	
ROCK	 		<u>+</u>	 . 			<u> </u>	 	 	1		1	+
BURN PILES	 	 		+ 	<u> </u> [!	1 { 1	 	 	[! 1 ·	+
	-			.	<u> </u>	h	<u> </u>	I	<u> </u>	1	L	<u> </u>	4.

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08/25/1993 Libby - Smoke Creek Pest Control KOOTENAI NATIONAL FOREST SOIL DISTURBANCE DATA FORM Unit 9 -57502020 62502020 and 193 CUTTING METHOD DATE ennen SKIDDING METHOD DBSERVER none DISTRICT **F** $\sim c$ HAZARD TREATMENT netation Salvage SILVICULTURAL TREATMENT SALE Unit No OPERATION PERIOD Early-med ept. 625-02-020 COMPACTION(Heavy) 2 705 90 COMPACTION(Light) X X X X X 420 UNDISTURBED 430 X X X X X X X X 120 EXCAVATED SKID TRAIL SMZ COMMEN toward NIF 24 Sma AMOUNT OF No.of Per-No.of Per-DISTURBANCE Paces cent Paces cent Heavy disbance Light, mod. disturbance Undisturbed TOTAL 'e vegetative growth will be significantly Displaced ⁷ and lightly used depending on amount of idings, and other impacted areas. icluded 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

-	Transe	ect 1	Transe	ect 2	Transe	ect 3	Transe	ect 4	Trans	ect 5	TOT	ALS	
	Pts."	8	Pts.	જે	Pts.	8	Pts.	ક	Pts.	જ	Pts.	0 ¹ 0	
HEAVY	2	1	0	0	0	0	 .				2)	
LIGHT	90	40	105	48	225	56			 		420	49	
UNDISTURB	135	59	115	52	18D	44	t i				430	50	-
OTALS	227	100	220	100	405	100	[Ì	832	100	
•			11	-									
DISPLACED	40	-18	30	14	50	2	 				120	14	
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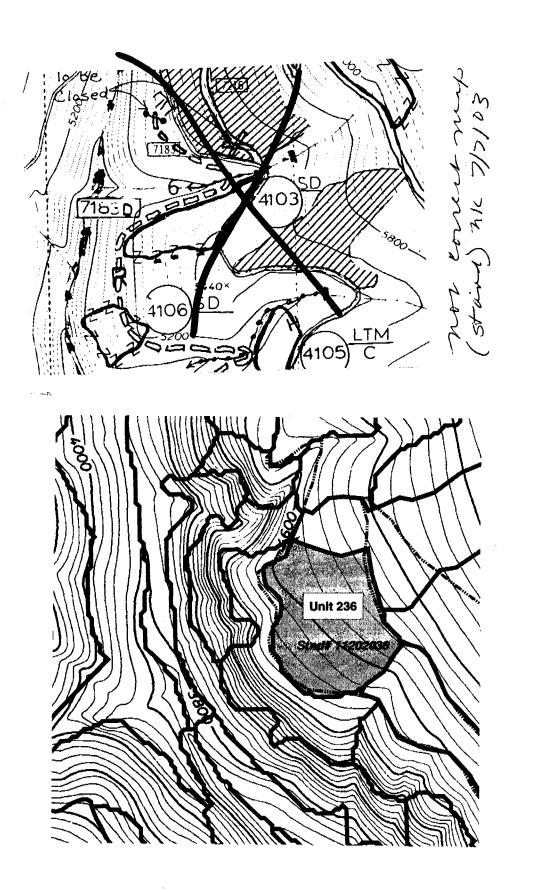
07/08/1993 **Rexford - North Fork** 202036 Unit 11 (236) **KOOTENAI NATIONAL FOREST** 236 = Unit 11 11202036 SOIL DISTURBANCE MONITORING FORM 1993 clipper CUTTING METHOD SKIDDING METHOD If tractor: dispersed dedicated BB HAZARD TREATMENT SILVICULTURAL TRMT OPERATION PERIOD opio I.T. Aspect I 0 Elevation I _0 ltion **DMPACTION (Heavy)** ACTION (Light) **DM** STURBED JIS ACED XCAVATED SKID TRAIL ROCK SM COMMENTS, (Include soil, geology, organic debris, other pertinent info) was nontire ne bon SHAPE OF UNIT AND PATTERN OF TRANSECT

ACTION (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 acitvity.

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

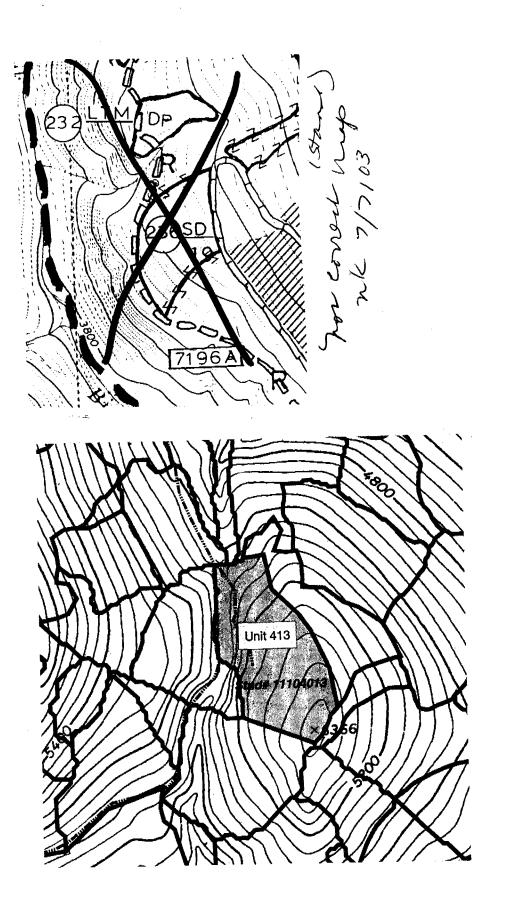
SMZ - Include within transect if within harvest unit.



	07/08/1993 R			
	11104		2125	
	KOOTENAI NATIONAL FOI SOIL DISTURBANCE MONITOR		4,63	= Unit
re July 8, 190 SEF J Khenne	CUTTING METHOD	clipper BT3	5	
iTPues Reyford	If tractor:	dispersed BB	dedicated	
nit # 410 3 Acres 4	HAZARD TREATMENT	CC		· · · · · · · · · · · ·
I.T. \$ 413 17103 A	OPERATION PERIOD	JulfAug	89	
lop <u>will</u>	Elevation			
)MPACTION (Heavy)		<u> </u>	• • • • • • • • • • • • • • • • • • •	
OMPACTION (Light)	Walk-Thr	ough		
JMPACTION (Light)				
SFACED				
AZ ROCK				
	organic debris, other pertinent info)			
MENTS (Include soil, geology,	and of in Firest Fi	e + Fuels	Bander	
		The second second second second second second second second second second second second second second second s		
Zoto of fuel ref	maintaround E	S. + SAF	- lique	trees.
Will hall all of	Huse unless fuel	S. + SAF Land point	lexue.	trees.
Will half all of Vind loaks good	mains around E these unless fuel from sail + whiter	S. + SAF	lexare.	<u>tnel</u>
Lats of fuel ref will thall all of Ind loaks good	mains around En these unless fuel from sail + whiter	S. + SAF	lexare.	<u>tnee</u> .
Lats of fuel rel will hell all of Unce loads good	mains around En these unless fuel from sail & whiten	S. + SAF	K.	<u>tree</u> .
Lats of fuel ull will hall all of Und looks good	maints around E. Huse unless fuel from sail + whiter	S. + SAF	K.	
Lats of fuel rel will hall all of Und loaks good		S. + SAF	E.	
APE OF UNIT AND PATTERN OF		S. + SAF	E.	
APE OF UNIT AND PATTERN OF		S. + SAF	Lexare	
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APE OF UNIT AND PATTERN OF		S. + SAF	K.	
	TRANSECT	S. + SAF		
<u>-ACTION (Heavy)</u> - Any place w avily and lightly used depending on MPACTION (Light) - Any other are	TRANSECT TRANSECT	e significantly impact	ed, i.e., skid trails	(both
avily and lightly used depending on MPACTION (Light) - Any other are	TRANSECT TRANSECT	e significantly impact il moisture), landings ON or UNDISTURBI	ed, i.e., skid trails s, and other impac ED.	(both

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فمتفسيتينهم

	11603013	07/08/1993 Rexford - Holdup Gulch Unit 10
118-3-73	KOOTENAI NATIONAL FOREST SOIL DISTURBANCE MONITORING	11803073
re July 8, 19 SEF Aune	SKIDDING METHOD	APER RTS
LE A. Hallun Gu		ersed dedicated
init / C Acres 83	SILVICULTURAL TRMT	SW/ UB & Meth/plant
I.T. 312	OPERATION PERIOD 3/1 Aspect I MW	991 .
lop2 <u>376</u>	Elevation 1 3100	
OMPACTION (Heavy)		
	Walk-thr	cush
OMPACTION (Light)		- da
ISFACED		
XCAVATED SKID TRAIL		
ACAVATED SKID TRAIL		
3MZ ROCK		
COMMENTS (Include soil, geolog	y, organic debris, other pertinent info)	
This unit was		re t Falls Review
-Leave treem	shtality low - probab	by fue to light noin prior
From Soult	water standpoint 11 m	Alvolo and.
SHAPE OF UNIT AND PATTERN O	TDANCECT	
	r Thanseut	
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ACTION (Heavy) - Any place where future vegetative growth will be significantly impacted, i.e., skid trails (both eavily 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.

BMZ - Include within transect if within harvest unit.

10/99

		07/08/1993
-	11803072	Rexford - Holdup Gulch
· · · · ·	100000(~	Unit 12
-	KOOTENAI NATIONAL FO	
118.3-7250	DIL DISTURBANCE MONITOF	RING FORM
0 p p i n z		all and
18 July 8, 1993		- luper
SEF A Kluennen	SKIDDING METHOD	1 K 1 S
The Keyford	If tractor:	dispersed dedicated
LEBA. Holdup Guli	HAZARD TREATMENT	undertrun 9:2.91
nit # 12 Acres 784	SILVICULTURAL TRMT	
I.T. <u>324</u>	OPERATION PERIOD	3/1991
10 2370	Aspect I N	1
	Elevation 1 3500	
OMPACTION (Heavy)		
		All the second s
OMPACTION (Light)	waite the	way in the second secon
JWFACTION (Light)		
NUSTURBED		
IS LACED		
XCAVATED SKID TRAIL	· · · · · · · · · · · · · · · · · · ·	
SM. /ROCK		
COMMENTS (Include soil, geology, orga	inic debris, other pertinent info)	
This unit was a	antola District	First Fuels Ransing
- Lotsafliand True	- pailed. Too a	much full around base of
- tope Lats of heat a	round bace of the	res I roots heller 3" Into
. Sail	0	
	· · · · · · · · · · · · · · · · · · ·	
	NOFOT	
HAPE OF UNIT AND PATTERN OF TRA	NSECT	

ACTION (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>COMPACTION (Light)</u> - 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.

SMZ - Include within transect if within harvest unit.

10/99

07/23/1993 11101018 Rexford - Good Creek Pest Control Unit 20 KOOTENAI NATIONAL FOREST 11101018 SOIL DISTURBANCE MONITORING FORM G 5 CUTTING METHOD SKIDDING METHOD BS dedicated If tractor: dispersed ISTRIC BR 19 HAZARD TREATMENT /S.A. 600 122 all PP leave all others SILVICULTURAL TRMT it # Acres OPERATION PERIOD H.T. clus Aspect 1 Sont 9 pe Elevation I 4600 cation COMPACTION (Heavy MPACTION (Light) DISTURBED SPLACED EXCAVATED SKID TRAIL Z/ROCK DMMENTS (Include soil, geology, organic debris, other pertinent info) trip leit e Randy er lon berell umeno, D impin SHAPE OF UNIT AND PATTERN OF TRANSECT 12te ann.

<u>iPACTION (Heavy)</u> - Any place where future vegetative growth will be significantly impacted, i.e., skid trails (both mavily 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. <u>UNDISTURBED</u> - 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.

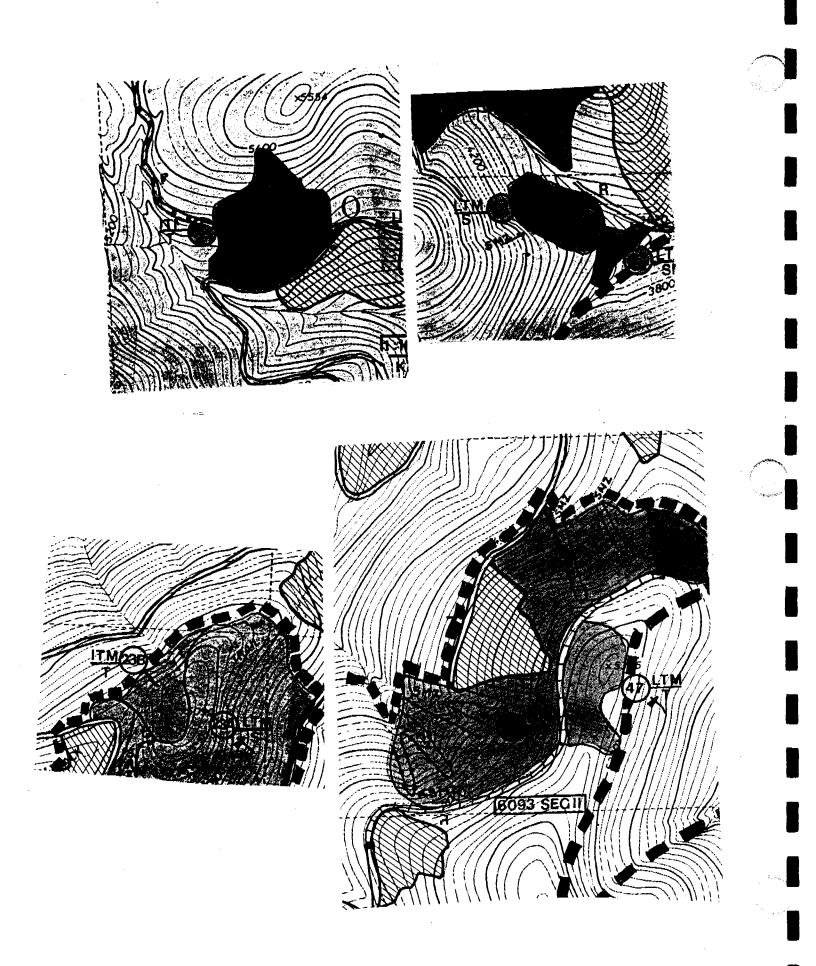
	Transect	1	Transect	2	Transect	3	Transec	t 4	Transect	5		ALS
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
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s LIGHT	· · · ·											
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EROSION											• • • • • • • • • • • • • • • • • • •	
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SMZ								<u> </u>				
ROCK												
BURN PILES		r.										

05/20/1993 25. BW - Seekcart 26 Seed Tree NR; 26 Linderstory burn '93 Three Rivers - East Basin KOOTENAI NATIONAL FOREST Unit 25 & 26 SOIL IMPACT DATA FORM 42902150 / 42902209 DATE May 20, 1993 Tractor shidded OBSERVER Kuennen-Shira DISTRICT Three Revers SALE E. Besin UNIT # 26+25 25. 42902 150 30 Acres 5600 Walk Through 26, 429 02-149 stand to 1N Walk Through 5theres west of 571 le 5600 nup also 32.A by itself nk 1/1/03 COMPACTION HEAVY COMPACTION LIGHT UNDISTURBED DISPLACED EXCAVATED SKID TRAIL SMZ m istano soor Com alur SHAPE OF UNIT AND PATTERN OF WALK THROUGH. AB #26 14179

	Transe	ect 1	Trans	<u>ect 2</u>	Trans	<u>ect 3</u>	Transe	ect 4	Trans	ect 5	TOT	ALS
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BURN PILES)	1	1	1				1	1	1	1	1
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06/07/1993 Three Rivers - Fourth Cyclone Fire Salvage		0201137 40201143/40202126 0201144/40202128 40301170/40402159 0301177/40301140
	DISTURBANCE DATA FORM	
DATE 6 - 7 - 93	CUTTING METHOD	- clyper
OBSERVER Knennen	skidding method $R7$	3
DISTRICT Thank wer	HAZARD ABATEMENT	me
SALE Fourth Cyclone Fire S.	SILVICULTURAL <u>CC</u>	n CC w/ recerves
Unit No. 1, 1, 7, 7A, 23	OPERATION PERIOD	19 summer
COMPACTION(Heavy)	Walk Through	
		·
COMPACTION (Light)		
UNDISTURBED		
DISPLACED		
EXCAVATED SKID TRAIL		
SMZ/ROCK		
COMMENTS	38	
- Unit 1. 40201137,	_ cleancut, HOA	cres, 1994
1 Unit 7 40201143, 40202126	clearent, 19 Ac clearent, 3 Acr	res, 1994) 22 Acres
V Unit 7A 40201144,	CC w/receive 17 A	nes, 1994 44
VUNT23B 40301 170,	CC w/ reserve, 101	Acres 1994
V 71 1 40 402 159	CC w/ reserve, 6. F.	Ficres 1994 16/1000
1 UM 49 46 4030/177	cleancent, 199 Acres	
Shape of Unit and Pattern of Transect		& Acres
46		
		,
	X	



05/21/1993 Libby - Blue Rice KOOTENAI NATIONAL FOREST Unit 17 & 21 SOIL IMPACT DATA FORM 51401011 51402032 DATE <u>5.21.93</u> OBSERVER<u>Buennen trawford</u>-Jimeno ^W DISTRICT <u>Libby</u> SALE <u>Blue-Rice</u> UNIT # 17 + 21 + 514-028A Walk Through subsequent to '92 transecto. DATE 5.21.93 COMPACTION HEAVY COMPACTION LIGHT **UNDISTURBED** DISPLACED EXCAVATED SKID TRAIL SMZ COMMENTS Somewhat heavy on the shidding. in Uni res site Lessive , too wet. elars shits rechned 4671 SHAPE OF UNIT AND PATTERN OF WALK THROUGH. #17 4671___ 4721 <u>चार्य</u>10

	Pts.	8	Pts.	8	Pts.	8	Pts.	8	Pts.	ક	Pts.	ar ar
D HEAVY												
s lIGHT		<u> </u>						<u> </u>	<u> </u>		<u> </u>]
t u UNDISTURB		<u>↓</u> 	<u> </u>	 	1		 	<u> </u>		<u> </u>	<u> </u>	
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SMZ	}	<u> </u> 			 .	 1		<u>. </u>				
ROCK	. <u> </u>	<u>+</u>				-+ 	<u> </u>	<u>↓ -</u> 		 	<u> </u>	↓
BURN PILES	ļ	<u> </u>	<u> </u>		<u> </u>	<u> </u>	<u> </u>	+	<u> </u>		+	<u>}</u>

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06/01/1993 Libby - Homesteader Unit 27 59002027 64002027

KOOTENAI NATIONAL FOREST SOIL IMPACT DATA FORM

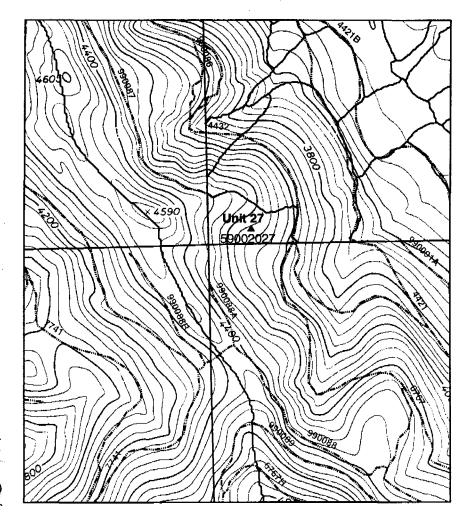
	DATE June 1, 1993 Tractor shidded
	OBSERVER <u>mennen-Farmer-</u> Johnson Dager piled
	DISTRICT Fisher River 10-02-027
	SALE formesteden UNIT # 27 18 18 . Welk through Subsequent to Wronsects.
	COMPACTION HEAVY
	COMPACTION LIGHT
	UNDISTURBED
	DISPLACED
	EXCAVATED SKID TRAIL
ļ	SMZ
 	COMMENTS Very abring the inpact of tractor piling, "Henry" percentage increased the mathially as result of pilling. Lower had of unit w/o piling is very acceptible

4432

SHAPE OF UNIT AND PATTERN OF WALK THROUGH.

#27

	Trans	ect 1	Trans	<u>ect 2</u>	Trans	ect 3	Transe	ect 4	Trans	<u>ect 5</u>	TOTALS		
	Pts.	8	Pts.		Pts.		Pts.				Pts.	90	
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LIGHT	1			ļ						ļ			
UNDISTURB		 	<u> </u>		<u> </u>	1			<u> </u>	<u> </u>		 	
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BURN PILES	 			<u> </u>	1				1				



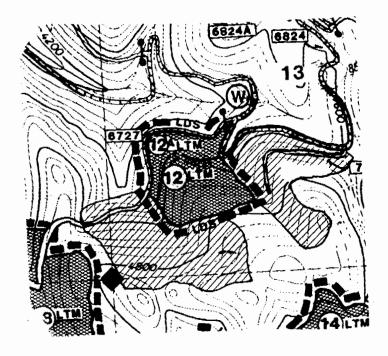
40/8/1 7h

	51703076	KOOTENAI NATIONAL FOREST SOIL DISTURBANCE DATA FORM	08/02/1993 Fisher River - Cow Creek Pest Control Unit 12 & 12A 51703076
DA	ATE 8.2.93	CUTTING METHOD_ ham	<u>k</u>
OE	BSERVER Lulanda		Tor
DI	STRICT Fisher River		nctory 1997
SA	LE Cow G. P.C.	SILVICULTURAL <u>54. See</u>	l Cut
	Unit No. $12 + 12$	OPERATION PERIOD	993 Summer
C	OMPACTION(Heavy)	ugh OPERATION PERIOD	
CC	OMPACTION (Light)		
U			
DI	ISPLACED		
EX	XCAVATED SKID TRAIL		· · · · · · · · · · · · · · · · · · ·
SN SN	MZ/ROCK		
<u> </u>			
	12A - 10 A		

Shape of Unit and Pattern of Transect

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08/02/1993 Fisher River - Cow Creek Pest Control Unit 29 59207043

H, T. - 660 Elev. - 4300' KOOTENAI NATIONAL FOREST 5 92.7-43 Stope-16% SOIL DISTURBANCE DATA FORM 12 acres ASP - SW 8.2.93 DATE CUTTING METHOD ennen-Hennesser OBSERVER/ SKIDDING METHOD 93 -10/94 DISTRICT / HAZARD TREATMENT SILVICULTURAL TREATMENT CC/SPMech/Plart SALE Unit No 6/1990 OPERATION PERIOD Welk through COMPACTION(Heavy) COMPACTION(Light) UNDISTURBED DISPLACED 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.

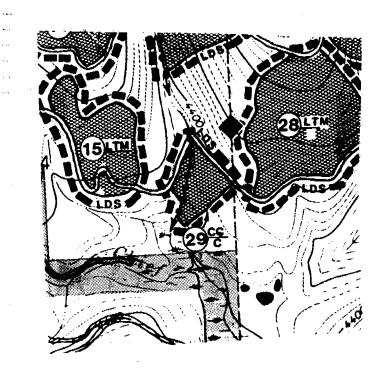
UNDISTURBED - no signs of any machinery or skidding activity.

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

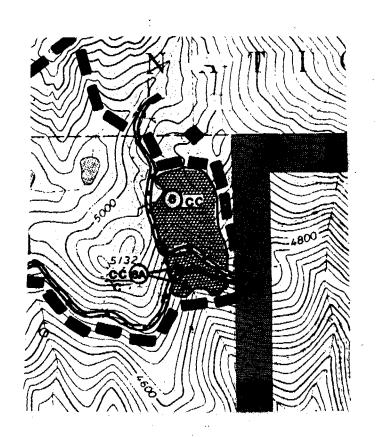
SMZ - include within transect if within harvest unit.

5/93

	Trans	<u>ect 1</u>	Trans	ect 2	Transect 3 Trans			ect 4	Trans	TOTALS		
			Pts.						Pts.		Pts.	
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SMZ	 		<u> </u> 1	 	 		1	 1		1	! !	
ROCK	 	 		 		 	↓	 	 	 	 	
BURN PILES]	



09/07/1993 Fisher River - Cody Creek Unit 6 56806006 H.T. - 250 STOPE - 23% KOOTENAI NATIONAL FOREST SOIL DISTURBANCE DATA FORM Asp. - 5 elev. - 5100' 568.6-06 9.7.93 CUTTING METHOD ATE naen Mc Bucko nac SKIDDING METHOD BSERVE Broadcasz Burn - 5/1995 DISTRICT L HAZARD TREATMENT SILVICULTURAL TREATMENT CCRes/BCB/Plant SALE 29 Acres OPERATION PERIOD Summer '93 Welk Through COMPACTION(Heavy) COMPACTION(Light) UNDISTURBED DISPLACED EXCAVATED SKID TRAIL SMZ COMMENTS 61 lesu dis icult uch a s There. hit looks and but 100 much areas. SHAPE OF UNIT AND PATTERN OF TRANSECT FL 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





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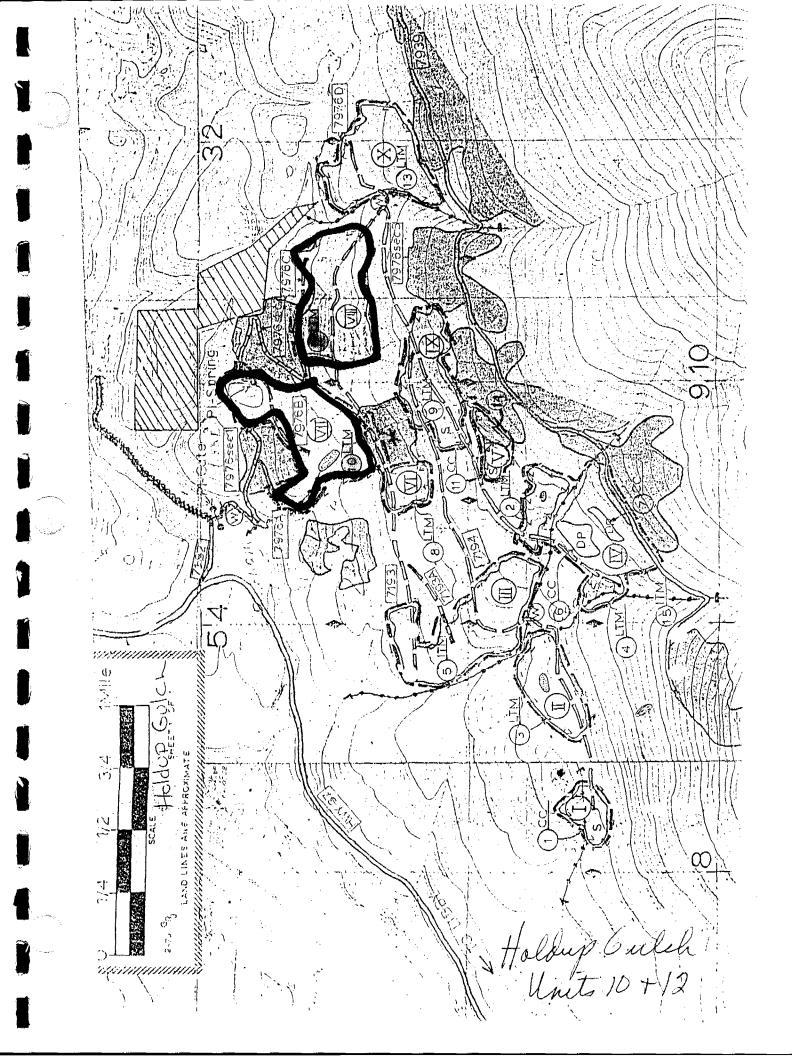
05/14/1993 Cabinet - Beaver Peak Resell Unit 2 KOOTENAI NATIONAL FOREST 71501035 SOIL IMPACT DATA FORM ST Seed Cut Grogeple pile '97, burn '98 Jan-Fel 93 Joyer DATE 5.14.93 SALEBOANER PRRESEllUNIT # 2 23A Walk H. OBSERVER Kuennen - Hel Walk Through Ele-2700, HT-570 As-NE, slope 15% COMPACTION HEAVY COMPACTION LIGHT UNDISTURBED DISPLACED EXCAVATED SKID TRAIL SMZ COMMENTS essentially flat of. Temped laid out. Thick ach cap. Looks good. winter Toperation. Scinify timp. rp. #2 SHAPE OF UNIT AND PATTERN OF WALK THROUGH. 22951

	Trans Pts.	18	Pts.	8	Pts.	1 8	Pts.	8	Pts.	00	Pts.	- 8
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SMZ												
ROCK		<u> </u>		∔ ↓	1	<u> </u>	+	<u> </u>		· . ·		
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BURN PILES	1	1	1	1	1		1	1	1		1	•

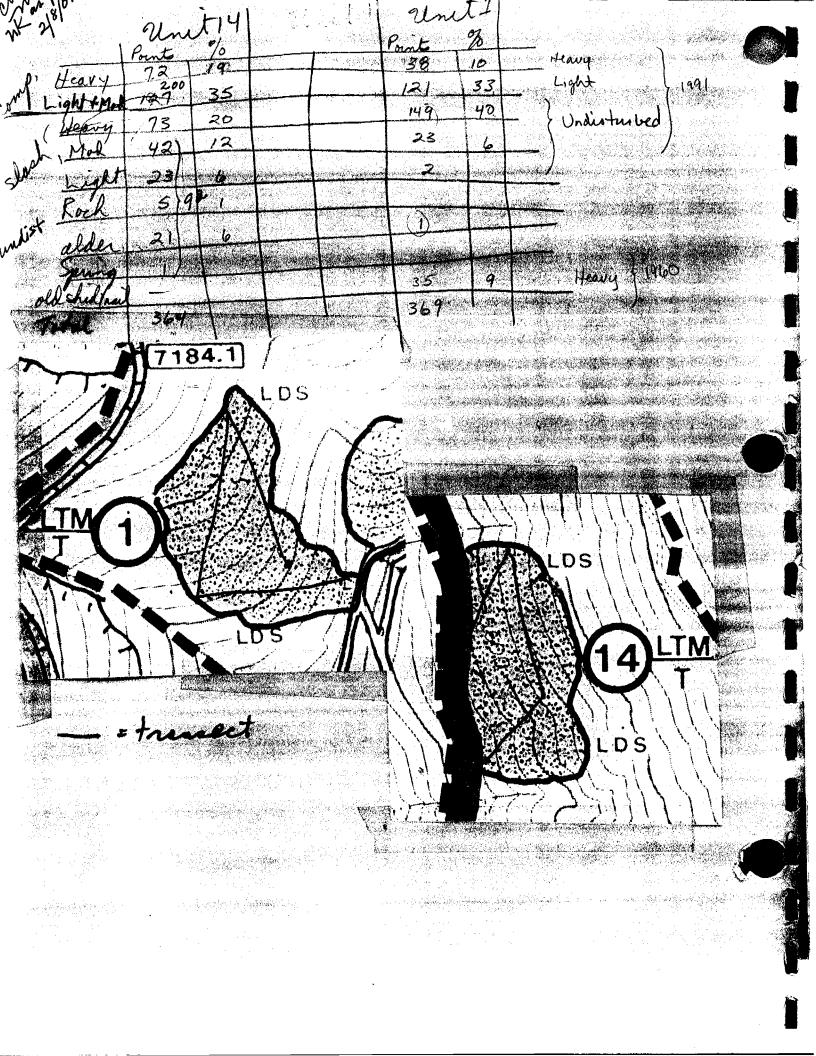
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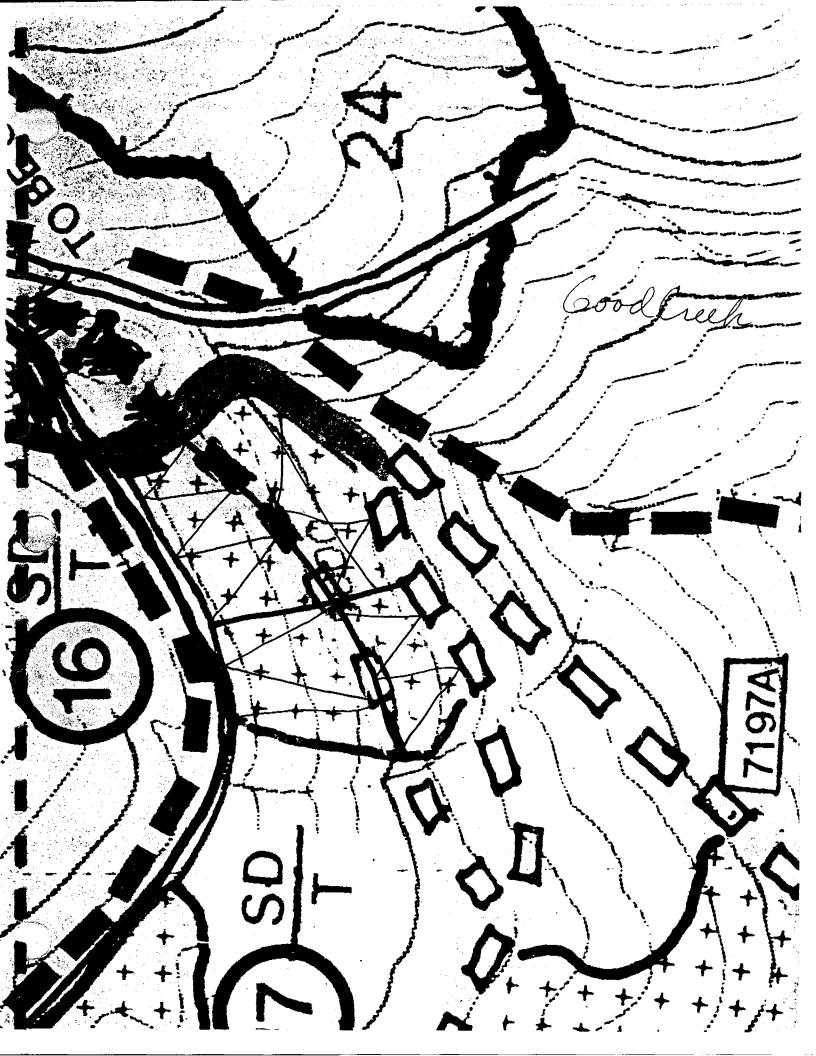


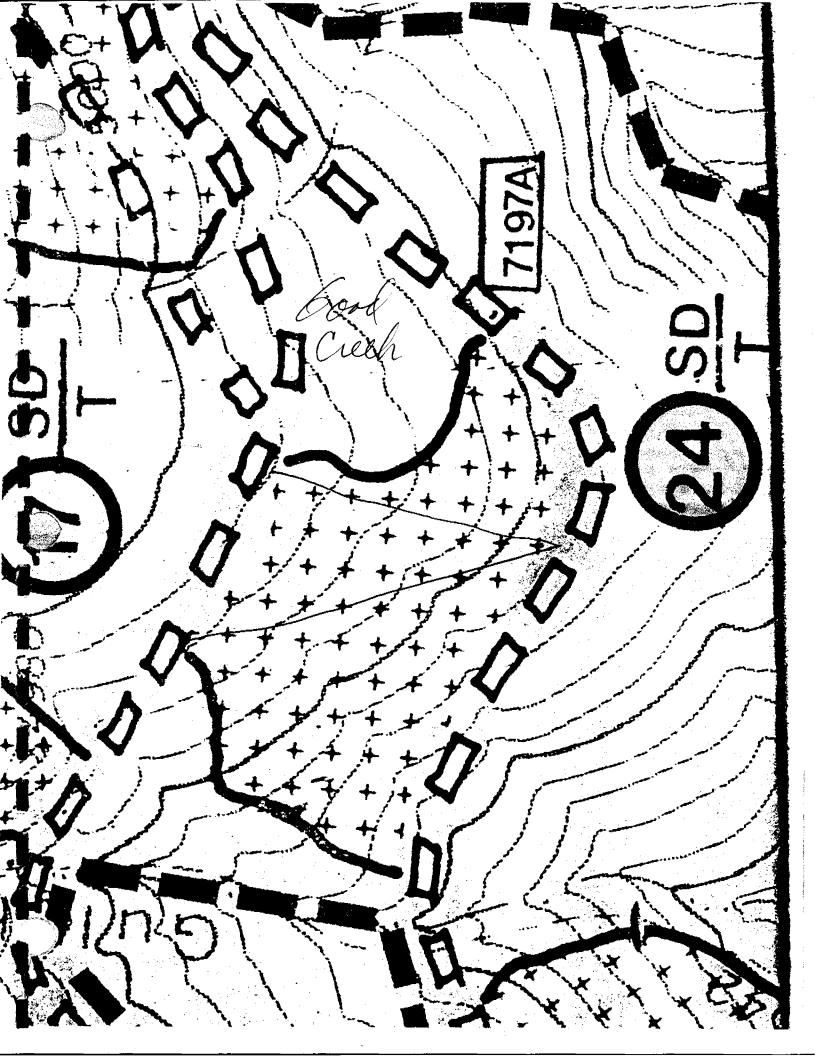
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3-75	18 Hearry shed			l nya	at string time = Dla	Childred w/ mayer
offer	slash, littigiduff Modi		(1) (1)	23	Vindedrucked (1991	
Will .	Light		 (3) 	2		
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the second	\$.	1	的 一支支援主要 第5月 111-111-111-111 111-111-111 111-111-	60	> Luda inn	
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Hur C	Roch (Surface)	1				
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(m) <i>4</i> (Japshill trail		369	35 349 -	r Henry 1940	
tid) U		<mark>95/15/4992 6</mark>	ood Creek Sale Unit M		$\langle \chi \rangle$	
u Bar						
NO NO	Moderate to sever	e compartion				
1 miles	C.		N A		₩ŶĮ.	



600d G. 200 Transecte_ slide boom delimber w/ grapple chidden H. Above Rd 7197 1/2 startmeen pate 1.6 start state 19+20 endness whiteflygging M compaction M end in SW corner No attempt to stry 13 127 Many Monsul u de stadped VV James Lagentina 257 4 tribits and set THE ME AND THE THE THE THE ME AND and 1 355 Ro need glad and the In my opinion there was somered to burn mult light Compation 15% Deary 63 mg At 22 Mindestrustel Took /3 of unit is 353 - lots of L back showing at surface

Soil Samples ek Soil Samples - above road $\underline{\smile}$. After samples H. Hore rd. 7197 (new rd) 1. Landing area just above id on W. enl of unit. 2. Shid trail leaking to landing above is 3. Depression near upper rd, w. end opunit maps shittin 4. Shid trail leading to lepression, near millo of unit. 5. Shid trail on E & of wait alone of. 6. Shid trail men bar dech in mill dyname of along of. 7. Shid trail near share a dech in mill dyname of along of. Selow r. 7196 To appen end of major shid trail E end of mut 10 just below rd 9197 dedicated trail/heal back stad It wenter sw corner of unit. 12 Deficited triel = 1/3 downhill, miled ach 13 Deficited triel were Evend of have back securit 3 fewry f 15. main trail near town and of ynit clove by lander 16. main lateral, up town will tower and 17. main taleral upper end Above 7/ 79 2/ 1/ 1/2 Bilow 7/78 2/ 2/24 Unith 8 10 10 10 C 55 55 93 9 30 Juppe Q Q Q Q * Surper and & included in undistinked





KOOTENAI NATIONAL FOREST SOIL IMPACT DATA FORM

P-1

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2 20 10/20/1992 Rexford - South Pinto Unit 2 13303082

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DATE 10.20.92		
OBSERVER Kuennen	cc w/ recer	~~~~
DISTRICT Refford		
SALE South Pinto UNIT # 2	133-03-082	
	60A	
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		7 49 8
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	88:: 100	
DISPLACED :		36%
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1 <u>}</u>		
EXCAVATED SKID TRAIL		
Traile Coming to lending Hearing Month I	Light !!	
part coming to landing to and ps 1107 L	har 16 Ch. e. e	r.
SMZ	· · · · · · · · · · · · · · · · · · ·	
COMMENTS Lot of disturbance in upper	NW corres Aunit where	
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alder/ met pat to. Waterbaw?? Wet area lower 1/3 W		
alder/ met pat to. Wet area lower 1/3 W Spruce 60 years ald, 21" at strump	D(14*)	
alder/ met pat to. Wet area lower 1/3 W Spruce 60 years ald, 21" at strump Expansion tol trail lower east.	o(14*)	
alder/ wet part to. Wet area lower 1/3 W Spruce 60 years old, 21" at = tump Executed trail lower east. East lower (childed in supressio	o(14") n - pushing inte wet spo	st
Aller wet part to. Wet area lower 1/3 W Spruce 60 years ald, 21" at = tum Exampled trail lower east." East lower (childed in supression 1%	n - pushing into wet spo	rt
Alder wet part to. Wet area lower 1/3 W Spruce 60 years old, 21" at = tump Executed trail lower east." East lower (childed in supression 1% 1 Beck B & M & B	o(14") n - pushing inte wet spo E :7	rt.

W - 293 M - 287 E - 279

5. Pinto Unit 2 10.20.92 Bulh Density Samples 1. Main trail near landing 1.16 2. Main trail W., near lower end, as it make 5. lateraltrail, weatside 1.42, 1.15 4. Main trail W, half way up 1.28, 1.05 5. Undist (W) w/i alder patch . 87, 81 6. Lateral trail (M) ~ 1/2 way up, on nace of ridge 1.09, 96 7. Glacial till, from rost wad ~ 14" in profile 8. Main trail middle 7 /2 way up 1.18, 1.09 9. Main trail (E) 2/3 way up more slach left 1.18, 1.09 10. Main trail (E) 3/4 way up 1.07, 1.23 11. Istend trail (E) 3/4 way up 1.38, 1.42 South Pinto Unit 2 Filler-Process Cut to length Forwarder 2(1) No. % $\lambda(2)$ Cumer! % No. 55 6 55 3 ST Henry 407 453 5 ^z 450 39 54 light 46 69 296 365 36 Undiet. 55. 60. 308 33 242 (1)Displ. 3 3 L 5 roch 43 46 140 859

10/23/1992 Rexford - South Pinto Unit 4 13303084

KOOTENAI NATIONAL FOREST SOIL IMPACT DATA FORM

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Grapple-she	der
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UNIT AND PATTERN OF WALK THROUGH. SHAPE OF

South Pinto Unit 4 Slide boom 6 n 4(2) 34 No. 76 No the Herry 120 56 (9

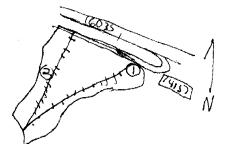
correcteons made 02/08/01 A

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10/28/1992 KOOTENAI NATIONAL FOREST Yaak - Dogwood Windy SOIL IMPACT DATA FORM Unit 28 43001108 / 43002103 6 Grapple studded, clippered-small hand fell - larger Cat put in water bars DATE 10-28-92 OBSERVER M. Moell No jul L DISTRICT 28 SALE Dogwood UNIT # Winch w/ vol. of 750 M 29AC. "4**30-**01 -COMPACTION HEAVY NO MAN UNDISTURBED DIN NON DI DISPLACED MANANAMANA 125 EXCAVATED SKID TRAIL : SMZ COMMENTS This whole .00 ه Lot out Alat

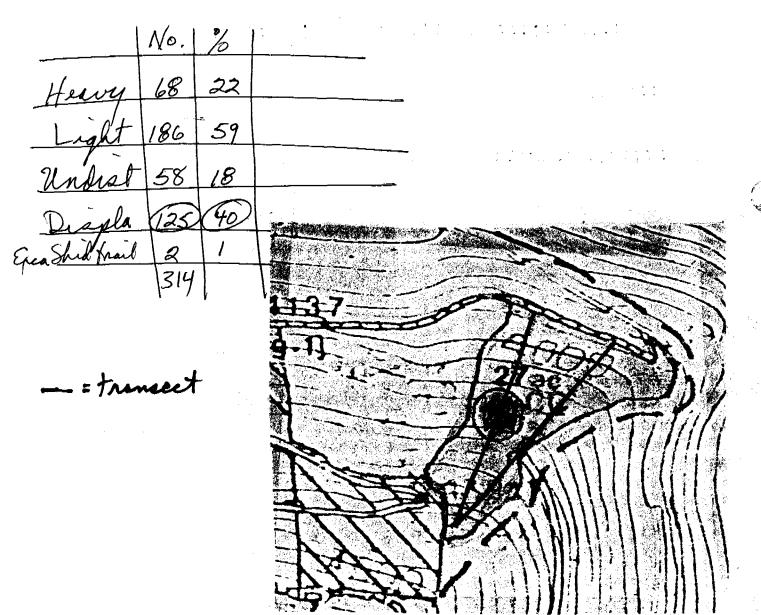
SHAPE OF UNIT AND PATTERN OF WALK THROUGH.



Buy Samples

ONE Comen of unit on a shiel trail West Side unit 's way down on a Shiel trail. This sample composed of organics - not sentin.

Dogwood Windy Unit 28



10/20/1992 D - 4Yaak - Upper Basin KOOTENAI NATIONAL FOREST Unit 9 & 9A SOIL IMPACT DATA FORM 42903210 42903211 Unit 9 - clippered, grapple-chidded, whole-tree yarded, return tops to unit. — Unit 9A Hand felled, whole-tree yarded ______ Linke Belt 108 DATE 8-28-92 OBSERVER M. Mouller DISTRICT 1 -4SALE Upper Basin UNIT # 9 4 917 9. 429-03-210 19A' 10, 429-03-211 SA COMPACTION HEAVY M M M M M 24 DISPLACED X X X X X X X X X X X X EXCAVATED SKID TRAIL SMZ D ANA COMMENTS / ... uper yz die 15 655 There +2 104 Gh SHAPE OF UNIT AND PATTERN OF WALK THROUGH. 357 (i)

Dow agar Skid & Trail on NE. Corner of Unit -#] to On Side of Kodo that Know through Unit Lots of sticks + other organics miked in. Appens + bel some till also mixed in. Upper Basin Unit 9 Unit 9A No. % No. 1% Heavy 60 21 6 Light 182, 62 40 35 Undist. 50. 17 66 59 upl (10 38 1 (4) Æ Shed mail @ \bigcirc 292! 113 =transect 9A shyline Juger Johnson LTM - Tractor.

KOOI	ENAI	NATION	AL FOR	lest
SOIL	DISTU	JRBANCE	DATA	FORM

05/07/1993 Yaak - Upper Basin Unit 9 42903210

	and the second second second second second second second second second second second second second second second
u <u>5-7-93</u>	CUTTING METHOD Clipper
DESERVER M, Moller,	SKIDDING METHOD Rubber Tire
DISTRICT D-4	HAZARD TREATMENT NON
SALE Upper Basin	SILVICULTURAL TREATMENT 2 + m
499-03-210 19A	OPERATION PERIOD
COMPACTION (Heavy) 2 90	5 cond Trawre 9 6%
COMPACTION(Light) :: 68	74
UNDISTURBED <u>C3</u>	45
DISPLACED 25	30
XCAVATED SKID TRAIL	0
	0
OMMENTS	
	1

6% - compaction ' Rerun of Unit 9. also ran are myself along bower edge quint on 5/20/93. Came out w/ 9-10 %. IS

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

<u>CTION(Light)</u> - any other area not included in heavy COMPACTION or UNDISTURBED. <u>NUISTURBED</u> - no signs of any machinery or skidding activity.

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

MZ - include within transect if within harvest unit.

<u>11 - 6%</u> 326

TRANSECT SUMMARY FORM

	Transe	<u>ect 1</u>	Transe	<u>ect 2</u>	Trans	ect 3	Trans	ect 4	Transe	ect 5	TOTA	LS
	Pts.	ક	Pts.		Pts.	8	Pts.	8	Pts.	0,0	Pts.	96
D HEAVY i	22	13	19	12				 			41	13
s LIGHT t	83	49	94	59							177	54
u UNDISTURE	63	38	45	29							108	33
<u>b</u>	1	1		L	[<u> </u>	<u> </u>			1		
TOTALS	168	100	158	100		<u> </u>	İ	I			326	100
		!	 		 		- 					
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ROCK	 [_	 	↓ 	↓ 1		 .			L 	 		
BURN PILES	<u> </u> 	 	 	 		 	 1	<u>+</u> 	 1	 		

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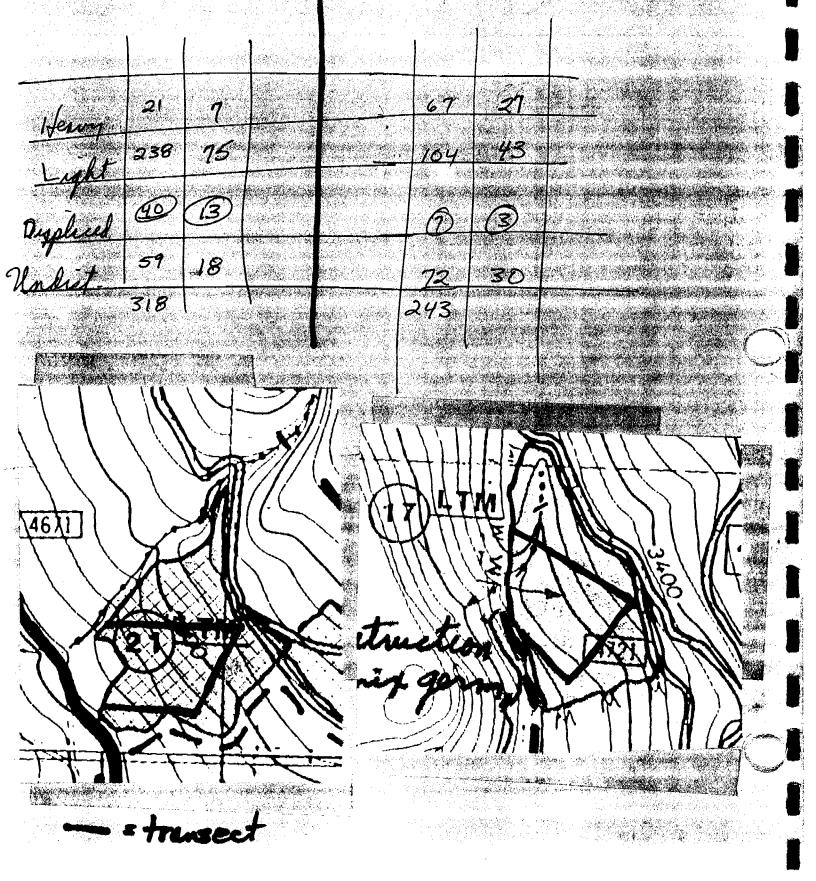
5

08/19/1992 Libby - Blue Rice 28 Hcres -5 Unit 21 hard sen, log length Dec. 91 JX 514-02-032 Blue-Kice Sale Unit #21 LTM Tractor logt peterky 12 Dompaction Transect pole from W corner to TE to 14465 june. Thentrance theodo 5 to body Crear corner of aller unt, Heaves Heaves Heavy 31 THITHING HILL ***** When smill percentage quit w/ cat tracks. Said surface very dry. ante soil profile, soil is maint. Cook a distribution of larger organic The Soil pinky what we R.O. Mest of competing miljel the most part machine whe are larget and sight of and good whether I and material to pilo and light of and the pilo yearingly allestrate and years impressed by the pilo Whit is Mile Marson U. D. 91. Rubber ting offer the start of the second 上;苏本+ Displacements THHI Understanded 157 20 press in unlistusbed below rock in monthing du martin The MILTHANH F/Lilo if some whe. Soil has myed ash surface. Lot of engular roch piece I. Mandengs indicate ligh soil monstine turing a peration. Excellent seed gemindteen on new construction in anon

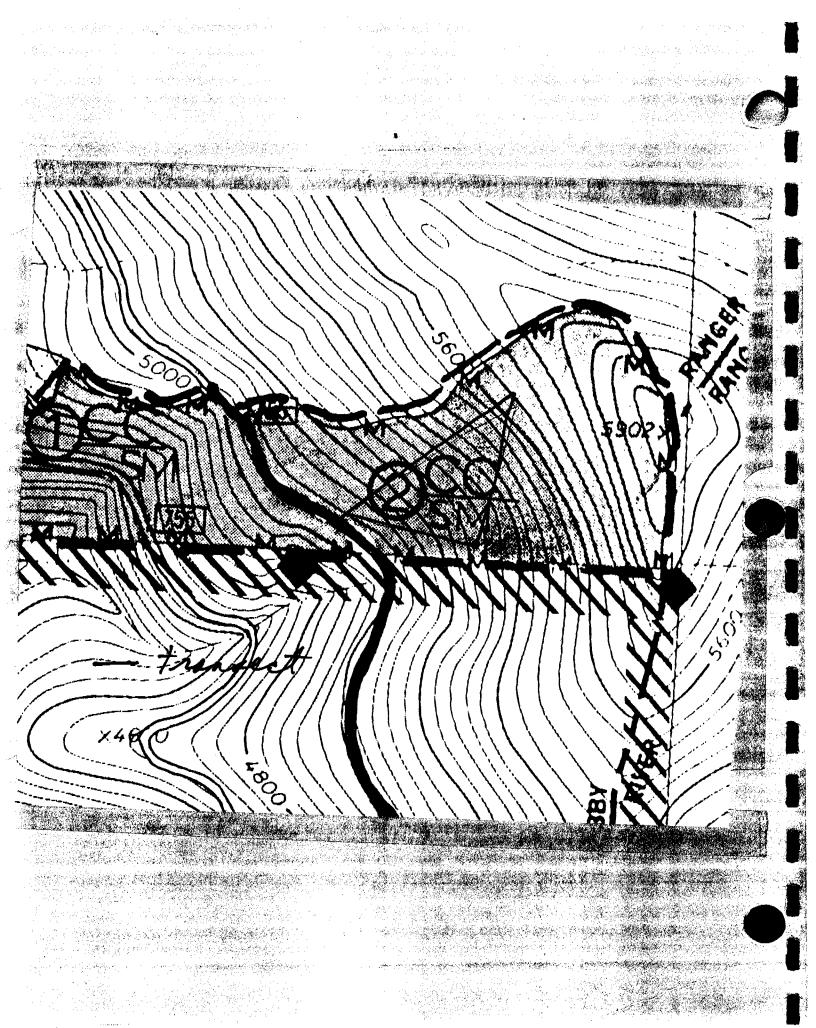
Blue-Rice

Unit 21

Unit 17



Blue Mountain Sale unit? CG/SM alone Red <u>755P</u>. He part loged in 1992 Prom SW corner to NE 573-01-080 Blue Mountain Se reaction 24 - 14 - 12 <u>111 111 111 111 111 111 111</u> 65 - 23 Heavy 11111111 111 111 111 111 Light. splace Too much Sphie removed. W/B coming lown main to trails are us good / & shey but won't crain any where the 3-16-22 (+-17hattensio prosti de traisses 1. 2. 19 19 19 19 1/5 Yellow 92, particul 91??? Gener why not put in w/excarator; pullanter bein Fileline along SEbby too closets ch en en en de la companya de la companya de la companya de la companya de la companya de la companya de la compa logged lumile 24 Hervy 14% 23% 20% Light Proplaced 100 11 riaturb 25% 171 1277 448 blach = no. of pto red = percent.



10/16/1992 Homesteader Sale 10.16.72 639-06-031 rubber Unit 4 Tractor shidled hend faw 15A Cotabination Fisher River - Homes ompaction Unit 4 slich left in unit 58906031 63906031 1111 1111 1111 lan HAT HAT HAT THE THE THE TITE 5 דריע יוייע וודא וראג וויון וואגעריינים און אין אין איון אין אין אין אין אין אין דריע א disturber place 11+17+1+1+1+1++++++++++++11 THE THE THE MELTHEI reavated shed HHL THUI I ru Generally have light impart in unit. mmon Started SW corner unit un al handfelled 10-16.92 crowler teraitor 6#19-02-027Homesteader Sale Unit 27 ypper 85% Frictor piled sulled to turn then logger uppelpar **** **** 711- 714 70- 714- 114- 114- 114- 114- 114- 11 TH H4 11+ und where cat did at run shikking + piling there is very little gro I walking w/ cat tid some keep diplacement. 13 Comment: between was tractor piled. Lower end (15%) was not. ≈ 85 (upper pair Lower 15% , 14, THE HELE THE THE THE METHIC III C. L 38 THE THE THE HUL Undis Disfly ++++1111 9 े के नेपु 🔭 🗬 हैं 🧃

640-02 2021 10.16.9= Homesteader Unit 30 Feb. 72 6 Acres Froger/phening 10/16/1992 Nandfelled, crowler C.H. Hurthell Fisher River - Homesteader Unit 30 :2 C.L. 59002029 64002029 104 46 Undesturbed THE THE THE THE THE THE THE THE THE Old shid trails crossed unit. WWP in stand. 3) Desplaced 152 Comments: Tractor logged + unpiled Homestealer Sale Unit 29 640-02-007 hand felled crowler shided TH. log in unit, whole free 10.16.92 Feb. 92 pringer/thowing CH 30 75 Sisturbed htti 7644-11[[14 Pisplaced T#+ T#+- 7#+- 7#+- 7++ Unit tractor logged + tractor piled. machine over man 119 Comment: 10% ground. Unit 30 Upper 85% Lane Unit 4 Unit 29 No. 70 No. No. No. 1/2 H^{-} 2 1 13 12 30 25 4 30 14 Henry 77 80 64 183 38 64 63 104 75 14 Light 45 13 1 20 34 39 46 16 12 224 69 14 (15) 39 Ø (163[°] 45 9 18) (42 50 1(10) 321 10 3 119 1326 is est

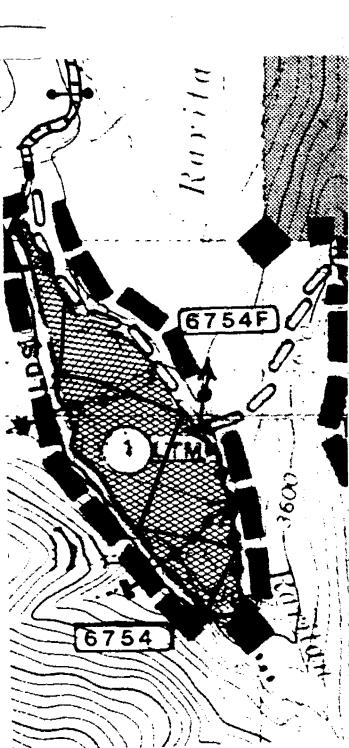
10/29/1992 Fisher River - East Raritan Unit 1 58801113 63801113

KOOTENAI NATIONAL FOREST SOIL IMPACT DATA FORM

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DISTRICT $) - 6$		P	
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SALE C. Kori Im	<u> </u>		
63 8 -01	-1(3	35A	
COMPACTION HEAVY 🙀 🔯	XXXXXXXX		
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SMZ			
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arounds	e Excerneted Shid	Trails, than sthe	$\sim 4n^{1}$
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SHAPE OF UNIT AND PATTER	N OF WALK THROUGH.	Loce II .	
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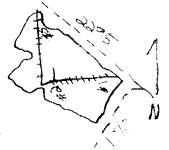
East Rasitan Unit 1 Slash in unit fineline, dogenpite hand felled, logshidded

10-H Tra



10/29/1992 1 ft. of snow Cabinet - Beaver Peak Resell KOOTENAI NATIONAL FOREST Unit 9 SOIL IMPACT DATA FORM 71502005 tractored (dogen) DATE 10-2-92 enog chain OBSERVER MARINE DISTRICT 18A SALE Reaver Fran Barl UNIT #_ 715-02-005 COMPACTION HEAVY X X X X 12 UNDISTURBED 🐋 🔀 😭 . . . MMM A A A A DISPLACED EXCAVATED SKID TRAIL SMZ COMMENTS this has Most <u>L'UN</u> heen ----- North MPT. trails are Corne 100 3hore burn to) tias per affected species avanna And IN T the south end of _ples_ There an LE CA-E unit

SHAPE OF UNIT AND PATTERN OF WALK THROUGH.



Or Shid Tra where the sport 30 Vipper in date of Vrim most 4 th - 2 =7 the Morth and of Taken in #3 Beaver Peak Resell Unit 9 No. 24 Heavy 11 65 190 33 68 294 = transect FOR INDER, NIT NO 'C. E INSERT NO. 21 17 LTM

10/21/1992 Cabinet - Dry Gulch Dixie KOOTENAI NATIONAL FOREST SOIL IMPACT DATA FORM Unit 14 tractor-logged tree-length encounter line no piling some cleppered drag chain 73007069 DATE 10-21 - 96 OBSERVER AL Host r DISTRICT <u>). Kie unit # 14</u> SALE Dry Gulch 730-07-069 9A 23 COMPACTION HEAVY :: 1 1 2 2 108 DISPLACED EXCAVATED SKID TRAIL SMZ COMMENTS Rotton unit $\Delta \alpha$ trom MW. Corner the unit Appears to name DUKE ide also seems to has water bor (mar) SHAPE OF UNIT AND PATTERN OF WALK THROUGH.

- GOID B N

· Bra Sources.

₩. home Boton line $\mathcal{D}^{\mathbf{r}}$ 20.00 #2 fiour 5010 Å m \leq Ta:

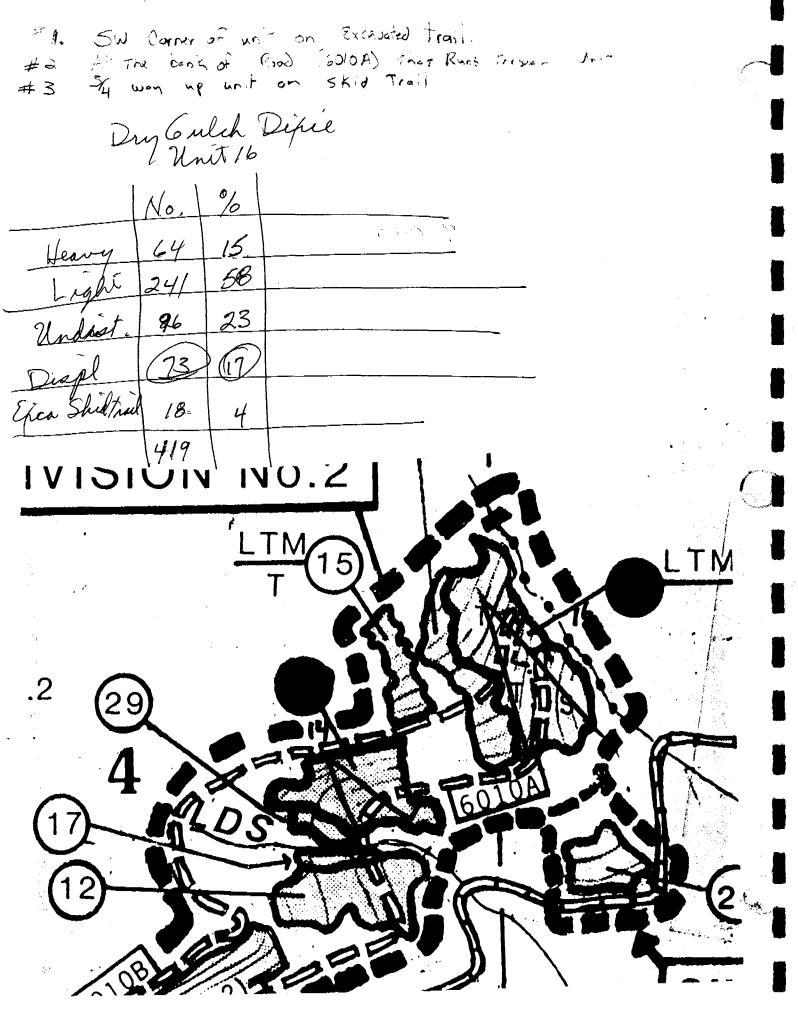
Dry Gulch Difie Unit 14

#2 ton 70 % 23 15 27 10 3 4 PINY 35 55 95 82 10 13 56 <u>153</u> 275 27 45 87 108 F. Ð 2 10 件 3 150 125

09/22/1992 Cabinet - Dry Gulch Dixie KOOTENAI NATIONAL FOREST Unit 16 SOIL IMPACT DATA FORM 73007042 hand Saw - bigger clipperid - smaller tree-length piles DATE 9-22-92 OBSERVER MAN - cray chain DISTRICT D = SALE Dry Gulch Dixie UNIT # 16 730-09-042 <u>N N N N ·</u> EXCAVATED SKID TRAIL 😿 🚞 SMZ COMMENTS Cat fire monon bottom Unds From lower and of un? Descina _ ____ the (Sky lined) less disturbed in the bottom 1/3 ____ than The unit Clear Cat, the neper <u>V</u> The bottom 400er 15 trues Acre. 6-10 Tree about leave SHAPE OF UNIT AND PATTERN OF WALK THROUGH. N 60',E

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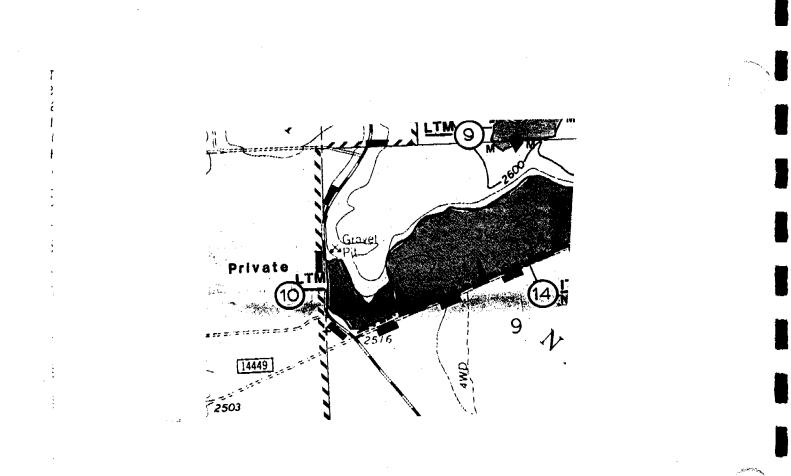
3æ



		07/21/1992 Libby - Bobtail Bull	
	51 Ann Ann Ann	Unit 10	
5 12.2-13	KOOTENAI NATIONAL FO SOIL DISTURBANCE MONITOR		
E Quiller 21, 199		<u></u>	
SERV Kalundo	SKIDDING METHOD	AT	
TREET VLihny	If tractor: HAZARD TREATMENT	dispersed dedicated	in.
ELA. Butal Buti nit # 10 Acres 13	SILVICULTURAL TRMT	Surfield SP Merbi Plant	<u> </u>
.T 2 50	OPERATION PERIOD	6/1992	
op <u>-170</u>	Aspect I LR		
ocation	Elevation 1 2,500		
MPACTION (Heavy)			
	Walk - throug	K	-
MPACTION (Light)	/		
DISTURBED			_~
ACED			
AVATED SKID TRAIL			~~~
ROCK			
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<u>UNDISTURBED</u> - 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.



5 13.03-60 sc	KOOTENAI NATIONAL FO		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	CUTTING METHOD SKIDDING METHOD If tractor: HAZARD TREATMENT SILVICULTURAL TRMT OPERATION PERIOD Aspect 1 SE Elevation 1 5200	dispersed <u>Grass Pille</u> <u>dispersed</u> <u>Docuss Pille</u> <u>Scifies/Stifiech</u> <u>S11991</u>	
OMPACTION (Light)	Walk-Mise	igh.	
SMZ/ROCK			· · · · · · · · · · · · · · · · · · ·
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HAPE OF UNIT AND PATTERN OF TRA	NSECT		

<u>PACTION (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.

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. SMZ - Include within transect if within harvest unit.

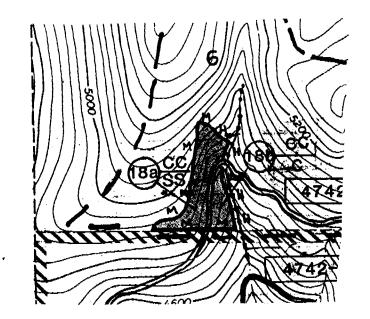
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New York

		07/21/1992	
		Libby - Banfield	
512 0 00		Unit 18 REST 51302032	
513.Q-B2	KOOTENAI NATIONAL FO		
SU SU	IL DISTURBANCE MONITOR		
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OCD.	SKIDDING METHOD	RT 5	
SER J I winnen	lf tractor:	dispersed dedicated	
LE .A. Banfiels'	HAZARD TREATMENT	dispersed dedicated <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u> <u>dedicated</u>	FI1/92 BB-412
init # / & Acres 20	SILVICULTURAL TRMT	CC/SP Much + REDurn / Plant	
1.7 621	OPERATION PERIOD	\$ /1991	
101 2.7%	Aspect 1 5E		
ocation	Elevation 1 4800		
OMPACTION (Heavy)			
	A A House	<i>h</i>	*
	Walk-Thro	agh	
OMPACTION (Light)		1	
NDISTURBED			
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NS ACED			
IS LACED			
EXCAVATED SKID TRAIL		<u> </u>	
SMZ/ROCK			
COMMENTS (Include soil, geology, organ	nic debris, other pertinent info		
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There was from mare	ch briting an	Compretion, especially	ω
· aina a counde. (ripple utan n.	reator much like a dame	2.
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PACTION (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. <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.



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				07/21/1992	
			and the second second second	Libby - Snowshoe Road Bugs	
			160-050	Unit 2	
			COOTENAI NATIONAL FO		
-5+	and ID	OIL	DISTURBANCE MONITOR	RING FORM	
E	110,21	1992	CUTTING METHOD	Faller Sun about	
ERV	- King		SKIDDING METHOD	Accer pite Whale tree	
THECT	Libby		If tractor:	Breen precipited free dispersed dedicated	
E A.	Snowshoe	Road Bugs		BUCA DP-10/1991	
nit #	2 Acres	62	SILVICULTURAL TRMT	CC/ Res / SP Mech / Flast	
THT	591		OPERATION PERIOD	3/1990	
op %	3 70		Aspect LR		
ocation	ONL (Llassad)		Elevation 1 2600	, 	
MPACT	ON (Heavy)				
			1 1 1/1 1/	1. 1	
MPACTIO	ON (Light)		Walk-Th	rough	
VDISTURE	3ED				
IS ACED)				
XCAVATE	SKID TRAIL				
MZ/ROCK					
MENTS	(Include soil, g	eology, organic	debris, other pertinent info)	
- This	was pa	it of a s	ite sup serie	ew.	
- de	intract	called for	40-45% mine	ral soil as part of the dones pelin	1.
-	nding to	the space	instions ~ 1/3 0	1 the unit too light, 1/2 too heavy	1
	13 about	sight (Noth planting	scheduled the prescription for	
90-9	5 6 wag	too high.	The light area in	as provoly about right. (10)	
1 wa	- facing	ages:			

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

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

SMZ - Include within transect if within harvest unit.

S

07/21/1992 Libby - Snowshoe Road Bugs Unit 5 528.2-124 52802124 **KOOTENAI NATIONAL FOREST** SOIL DISTURBANCE MONITORING FORM 1-unk 21, 1772 CUTTING METHOD Ē SKIDDING METHOD SER dedicated If tractor: dispersed ιTΙ HAZARD TREATMENT Buin L andings -10/1991 Soad R SILVICULTURAL TRMT STISPONCH/Nat nit# Acres OPERATION PERIOD 711990 . 1 Aspect 1 log Elevation | .ocation 26 0 **DMPACTION** (Heavy) 74 712 **DMPACTION** (Light) STURBED is ACED AVATED SKID TRAIL EXC 3MZ/ROCK MENTS (Include soil, geology, organic debris, other pertinent info) N NL 1 Would in + supplime met were tola plate HAPE OF UNIT AND PATTERN OF TRANSECT

ACTION (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 acitvity.

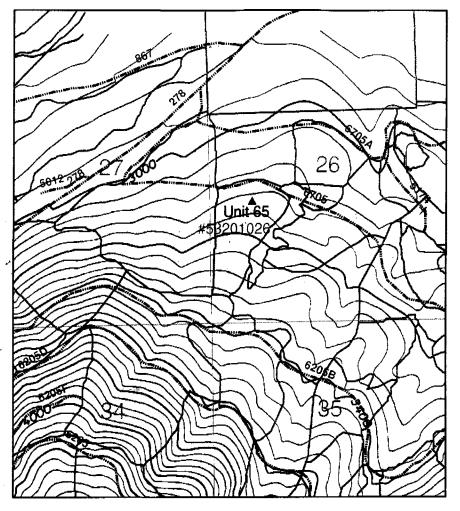
DISPLACED - Any place soil has been mounded by machinery, also include in heavy or light compaction.

SMZ - Include within transect if within harvest unit.

		07/21/1992
	and the second second second second second second second second second second second second second second second	Libby - Hoodoo
	ja ku ku ku	Unit 45
522	KOOTENAI NATIONAL FO	
5 32.1-26	SOIL DISTURBANCE MONITOR	ING FORM
	•	
E _ uly 21, 199;	2 CUTTING METHOD	K.Afficano
ERV Kulmen	SKIDDING METHOD	LL BTS
THET LIBBY	If tractor:	dispersed dedicated
E.A., Hoodoo	HAZARD TREATMENT	6. uppic pelinit- bushed 1019
nit # 45 Acres 16	SILVICULTURAL TRMT	Swikes 1 si duch / Plant
T 57/	OPERATION PERIOD	3/1990
op 15%	Aspect I N	
OCATION	Elevation 1 3200	
MPACTION (Heavy)		
		AMART
MPACTION (Light)	wall in	co y h
NDISTURBED		
MENTS . (Include soil, geology. MENTS . (Include soil, geology. This was part type unit should en the soil was see below 20 for machinen o freen troadcastle planting these set	organic debris, other pertinent into A site prep re Anewer have been too wet. It is a b which is great perations. Abris burned. Since the intely up need for	
ADE OF UNIT AND DATTERN OF	TRANSFOT	
APE OF UNIT AND PATTERN OF	TRANSECT	
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-ACTION (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. <u>COMPACTION (Light)</u> - 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. SMZ - Include within transect if within harvest unit.



1/s/04 nk may, correction

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05/15/1991 61403000 **KOOTENAI NATIONAL FOREST** Fisher River - Slippery Slime Salvage SOIL DISTURBANCE DATA FORM Unit 2 57903027 DATE 5,15,91 CUTTING METHOD Clipper OBSERVER Kulnnen SKIDDING METHOD $KT \leq$ DISTRICT Frohen River HAZARD ABATEMENT burn landings SALE Strepen Slime F. S. SILVICULTURAL C.C. Unit M6 57ACKES OPERATION PERIOD Summer 1990 Walk-Through COMPACTION(Heavy) COMPACTION (Light) UNDISTURBED DISPLACED EXCAVATED SKID TRAIL SMZ/ROCK COMMENTS : 57 A; 20-35% slope; Cle-4600-500 903027; 3 Burned landing 1990 spect; H.T. LDS; Two STZ's in unit Shape of Unit and Pattern of Transect Part of 1988 Dry Fack Fire

05/15/1991 **KOOTENAI NATIONAL FOREST** Fisher River - Movie Spur Salvage - 35706 077 - 27A SOIL DISTURBANCE DATA FORM Unit 2 57906027 DATE 5.15.91 CUTTING METHOD PREL OBSERVER Kuennen SKIDDING METHOD 10. DISTRICT Fisher Siver HAZARD ABATEMENT SILVICULTURAL <u>ST</u> SALE ATTO Unit N... Summer 1990 OPERATION PERIOD 27 Walk through COMPACTION(Heavy) COMPACTION (Light) UNDISTURBED DISPLACED EXCAVATED SKID TRAIL SMZ/ROCK COMMENTS 55906027 - 27A; 10-20% slige, Cle- 4850 - 4950; ustput; H.T. -620 -DS Shape of Unit and Pattern of Transect Parte of 1988 Aug. Pry Fork Fire

51502013 KOOTENAI NATIONAL FOREST SOIL DISTURBANCE MONITORING FORM 06/10/1991 Fisher River - Smoke Creek Pest Control Unit 3 57502013

	DATE Junk 16 1991 OBSERVER <u>Knemmen</u> DISTRICT <u>Linh</u> UITTING METHOD <u>Tractic</u> SKIDDING METHOD <u>If tractor</u> If tractor: dispersed <u>dedicated</u> HAZARD TREATMENT Unit # <u>3</u> Acres <u>10</u> SILVICULTURAL TRMT <u>Spittenwort / Sectore LTM</u> H.T. <u>DF/Vagt</u> Slope <u>upper</u> Location <u>Elevation</u> <u>3660 - 3800</u> COMPACTION (Heavy)
	COMPACTION (Light)
	UNDISTURBED
er e	DISPLACED
	EXCAVATED SKID TRAIL
	SMZ/ROCK
	COMMENTS (Include soil, geology, organic debris, other pertinent into) No puddling ' Completion + this have ment minimush. Erssion limited to stilling areas + hour roads, there was for much instin, Valennicash surface (0-8") over tide.
	04 Ret 6760
-	
-	SHAPE OF UNIT AND PATTERN OF TRANSECT

<u>COMPACTION (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. <u>UNDISTURBED</u> - 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>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.

07/11/1991 516 01 00 KOOTENAI NATIONAL FOREST Libby - Rainy Creek Unit 1 SOIL DISTURBANCE MONITORING FORM 51601005 DATE CUTTING METHOD OBSERVER SKIDDING METHOD DISTRICT If tractor: dispersed dedicated SALE/S.A. HAZARD TREATMENT SILVICULTURAL TRMT Unit # \overline{CC} Acrés K2 H.T. OPERATION PERIOD in Slope Aspect 1 5.5 Sou Location Elevation | COMPACTION (Heavy) COMPACTION (Light) UNDISTURBED DISPLACED EXCAVATED SKID TRAIL SMZ/ROCK COMMENTS (Include soil, geology, organic debris, other pertinent info) mining C SHAPE OF UNIT AND PATTERN OF TRANSECT

<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. <u>COMPACTION (Light)</u> - Any other area not included in heavy COMPACTION or UNDISTURBED. <u>UNDISTURBED</u> - No signs of any machinery or skidding acitvity.

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446.01220	KOOTENAI NATIONAL F SOIL DISTURBANCE MONITO		
DATE July 11, 199	CUTTING METHOD	Trot	end
DISTRICT $\frac{1}{10000000000000000000000000000000000$	If tractor: Leale HAZARD TREATMENT SILVICULTURAL TRM OPERATION PERIOD Aspect I Source	dispersed	dedicated
	Walk-	through	1
JNDISTURBED			
DISPLACED			
MZ/ROCK		······································	
	v, organic debris, other pertinent info		
		calton af	the meterne
Justantooned chr.	to avoid wetland &	Euring the	meeting. Fin
0.ff Rd 44187			

<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. <u>OMPACTION (Light)</u> - 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. SMZ - Include within transect if within harvest unit.

07/11/	1991 T	hree Rivers -	Logan	Ridge	Resale	I Init 9	44601227	
07/11/	1991 1	IIICE INIVEIS -	LUyan	Nuge	ILESAIE	Unit 3	44001227	

	446 01 227 KOOTENAI NATIONAL FOREST SOIL DISTURBANCE MONITORING FORM
	DATE July 11, 1991 CUTTING METHOD OBSERVER Kulming / Clusic SKIDDING METHOD DISTRICT Julie Kulming I fractor: SALE/S.A. Login Kidge Kossle HAZARD TREATMENT Unit # 9 Acres 8 SILVICULTURAL TRMT H.T. WH/ Cluin OPERATION PERIOD Slope 45-60 Aspect 1 northing Location upper Elevation 1 3040 - 3280'
	COMPACTION (Light)
	UNDISTURBED
1 g	DISPLACED
	EXCAVATED SKID TRAIL
-	SMZ/ROCK
	COMMENTS (Include soil, geology, organic debris, other pertinent info) No publicing no energing, a lot of displanement in corridors Volcanic ost surface (8-12") completing, removed in parts of carridors, Potenthel for energing, there was too much soil displanement in the shiptime carridors, but there are confined to tecs than 1 p of unit. Good growing site.
	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. <u>OMPACTION (Light)</u> - 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. SMZ - Include within transect if within harvest unit.

08/13/1991 **KOOTENAI NATIONAL FOREST Fisher River** 57902003-2 - Spring Clearance SOIL DISTURBANCE DATA FORM Unit 2 DATE 8.13.91 clipper 57902003 CUTTING METHOD OBSERVER Kuennen SKIDDING METHOD DISTRICT Fisher Kiver HAZARD ABATEMENT Grapple piling SILVICULTURAL CC w/ Receive SALESpring Cleanance F.S. Unit No. OPERATION PERIOD Summer 1990 726 Walk-Through COMPACTION(Heavy) COMPACTION (Light) UNDISTURBED DISPLACED EXCAVATED SKID TRAIL SMZ/ROCK COMMENTS 57902003; 72A; 15-30% slope, Ele-5100-5500, H.T. 625; burned landings + grapple pile-119enut: 1-DS, STZ adjacent to wedge of unit Shape of Unit and Pattern of Transect Part of 1988 Dy Fack Fine

08/13/1991 Fisher River - Down & Dirty Fire Salvage **KOOTENAI NATIONAL FOREST** Unit 2 SOIL DISTURBANCE DATA FORM エクタハド 57902087 / 57903082 / 57903043 8.13.91 CUTTING METHOD_ Clipper DATE OBSERVER_ uennen SKIDDING METHOD DISTRICT Figher River HAZARD ABATEMENT SILVICULTURAL <u>C</u>C SALE Down & Der Unit No. OPERATION PERIOD Summier (990 Walk-Through COMPACTION(Heavy) COMPACTION (Light) UNDISTURBED DISPLACED EXCAVATED SKID_TRAIL SMZ/ROCK COMMENTS 57903082 10A Unit 2: 57902043 - 9A 5790308 5-20% slope; Clo-4900-5300' ent SW; H.T. - 625 -663; Special Treatment zone along hainageway, LDS Shape of Unit and Pattern of Transect Part of 1988 Duy Fork Fire

08/13/1991 Fisher River - In the Black Fire Salvage 57902045-21A KOOTENAI NATIONAL FOREST Unit 3 SOIL DISTURBANCE DATA FORM 57902045 DATE 8.13.91 CUTTING METHOD <u>clipper</u> OBSERVER Kulmen SKIDDING METHOD RTS/ Joner DISTRICT Fisker Rever HAZARD ABATEMENT SALE In the Black F.S. SILVICULTURAL _____ Unit No. OPERATION PERIOD Simmer (989 COMPACTION(Heavy) _____ Walk-Through COMPACTION (Light) UNDISTURBED DISPLACED EXCAVATED SKID TRAIL SMZ/ROCK COMMENTS Unit 3: 2/14; 10-202 slope; Ele - 5500 H.T. - 670; burned landings: 1990 : Casper Protected stream course in NW portion of unit LDS Shape of Unit and Pattern of Transect Part of 1988 Dry Fork Fire

09/18/1991 Fisher River - End of the Burnt Fire Salvage 141A-57704057 -40A Unit 1 & 1A 57904057 KOOTENAI NATIONAL FOREST SOIL DISTURBANCE DATA FORM DATE 9.18.91 CUTTING METHOD Clepper OBSERVER Kulnnen SKIDDING METHOD DISTRICT Fisher Kiner HAZARD ABATEMENT SALEEnder the Burnt F.S. Unit No. 10 1A SILVICULTURAL LTM-1+1A OPERATION PERIOD 5 among 1959 Walk-Through COMPACTION(Heavy) COMPACTION (Light) UNDISTURBED DISPLACED EXCAVATED SKID TRAIL SMZ/ROCK COMMENTS Unit 1 + 1A: 25-35% slope; Ele-3700-4300; W-SW aspect; H.T. - 323 - care dead standing in units Shape of Unit and Pattern of Transect Part of Aug 1988 Duy Fack Fire

57901027 57901029 57901030 1-571010x1-25A 4-57901050 -18A 3-57901029 · 94 KOOTENAI NATIONAL FOREST Fisher River SOIL DISTURBANCE DATA FORM Unit 1, 3 & 4 Fisher River - Frustration Fire Salvage DATE 9.18.91 CUTTING METHOD Lipper OBSERVERK mennen SKIDDING METHOD K7HAZARD ABATEMENT Dones pile portions of 3 + 4 6-1.89 DISTRICT Fisher Kiner SALE Fructration F.S. SILVICULTURAL 1-CC w/ ST, 3+4-CC Unit No. 1. 3, 4 OPERATION PERIOD Dec '88-Feb. '89 Walk - Through COMPACTION(Heavy) COMPACTION (Light) UNDISTURBED DISPLACED EXCAVATED SKID TRAIL SMZ/ROCK COMMENTS Unit 1: 10-25% slape; Cle - 5200-5400; 5-5E aspect; H.T. - 625 Unit 3: 10-20% slope; Ele - 5000 - 5100; Saspert; H.T. - 620 Unit 4: 10-20% slope; Ele - 5000-5200; E-7NEaspect; H.T. - 625 Shape of Unit and Pattern of Transect Part of Aug 1988 Dry Fork Fire Special Treatment yone between unit 3+4 Dozen pile portions of Units 3+4 3/88

55907064 55907042 55907065 55907043 4 - 60101065 -17A -55907064 -4A 3-55907042-64 KOOTENAI NATIONAL FOREST 5-55757243-64 SOIL DISTURBANCE DATA FORM 09/18/1991 **Fisher River** DATE 9.18.91 - Out of the Black Fire Salvage Clippon CUTTING METHOD___ OBSERVER Kulmen KTS SKIDDING METHOD DISTRICT Fisher Kiver HAZARD ABATEMENT Grapplepile - 3, burn linking SILVICULTURAL LTM-1, 4, 5, CC-3 SALE Out of the Black F.S. Unit No. 1. 3. 4, 5 OPERATION PERIOD Dec= 90, Jan-Feb-91 Walk- Through COMPACTION(Heavy) COMPACTION (Light) UNDISTURBED DISPLACED **EXCAVATED SKID TRAIL** SMZ/ROCK COMMENTS Unit 1 : 15-25% slope; Ele - 4650-4700; w-NW aspect; H.T. -620; jochpat burn Unit 3: 10-25% clope; Ele - 4450-4500; N-NE aspect; H.T. - 670 15-25%, slape; Ele - 4600 - 4800; E-NEaspert; H.T. - 620 10-20% slope; Ele - 4500 - 4600; Naspert; H.T. - 620 ent Some along the Leane mp way; in in all Shape of Unit and Pattern of Transect Part of Aug 1988 Dry Fork Fire

1- 5-10 12 - 2114 09/18/1991 Fisher River - Green Burnt Fire Salvage . 2-55907036 - 21A Unit 1 & 3 55907063 55907036 KOOTENAI NATIONAL FOREST SOIL DISTURBANCE DATA FORM 9.18.91 DATE CUTTING METHOD_CURREN OBSERVER Kuennen SKIDDING METHOD DISTRICT Fisher Kiver HAZARD ABATEMENT omple pile 1+3 SALE Green Burnt F.S. SILVICULTURAL LTM-1, CC-3 Unit No. 1 d OPERATION PERIOD July - Aug - 1990 Walk-Throughs COMPACTION(Heavy) COMPACTION (Light) UNDISTURBED DISPLACED EXCAVATED SKID TRAIL SMZ/ROCK COMMENTS Unit 1: 15-25% slope; Ele-4750-4950; Easpert; HiT.-620; LDS Unit 3: 15-307. slope; Ele-4300-4500; W-NW aspert; H.T.-621; LDS in Unit 3, Protected Stream course along SW edge Shape of Unit and Pattern of Transect Part of Aug 1988 Dry Fork Fire

09/24/1991 Fortine - Blessed Ridge Unit 5 34405055 **KOOTENAI NATIONAL FOREST** 344.5-55 SOIL DISTURBANCE MONITORING FORM # 46832 Lelimbe **CUTTING METHOD** SKIDDING METHOD SEF dedicated dispersed If tractor: 37 NC ßВ S.A. HAZARD TREATMENT tractor for SILVICULTURAL TRMT init # OPERATION PERIOD Aspect I Elevation cation **OMPACTION** (Heavy) OMPACTION (Light) NUISTURBED LACED AVATED SKID TRAIL ΞX SMZ/ROCK + compartio MMENTS (Include soil, geplogy, organic debris, other pertinent info) Ĉ cha. 1. Some displandment 4-8 III Valcan henald an HAPE OF UNIT AND PATTERN OF TRANSECT

<u>ACTION (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. <u>COMPACTION (Light)</u> - 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. SMZ - Include within transect if within harvest unit.

09/24/1991 Fortine - Blessed Ridge KOOTENAI NATIONAL FOREST Unit 7 34405057 344.5-57 SOIL DISTURBANCE MONITORING FORM Septau clippe DATE CUTTING METHOD BSERVER SKIDDING METHOD If tractor: dedicated dispersed T HAZARD TREATMENT BВ tractor S, έ**Α**. SILVICULTURAL TRMTY Jnit # Acres **OPERATION PERIOD** H.T. Aspect 1 Slope w Elevation I 600 Location **OMPACTION** (Heavy) Jak **OMPACTION** (Light) UNDISTURBED DISPLACED EXCAVATED SKID TRAIL 6MZ/ROCK COMMENTS (Include soil, geology, organic debris, other pertinent info) Time dischargemen YCompac andlin -1 4-8" Valcons - 17 Sur Arce SHAPE OF UNIT AND PATTERN OF TRANSECT

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

TRANSECT SUMMARY FORM

1			Transa	t 2	Transec	t 3	Transe	ct 4	Transec	t 5	TOT	ALS]
	Transect	1	Transec Pts.	%	Pts.	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Pts.	%	Pts.	%	Pts.	%	
	Pts.	%	<u> </u>		+								_
D HEAVY i											· ·		
s LIGHT											<u> </u>		
u UNDISTURB r		-											
b TOTALS			`								 		-
DISPLACED							<u> </u>		 				-
EROSION													
PUDDLED											· -		_
SMZ													· .
ROCK											-		
BURN PILES													

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09/24/1991 Fortine - Blessed Ridge **KOOTENAI NATIONAL FOREST** Unit 10 345.6-32 SOIL DISTURBANCE MONITORING FORM 34506032 Senti 5.1991 DATE CUTTING METHOD ilimly. OBSERVER SKIDDING METHOD nIn DISTRICT If tractor: dispersed dedicated SALE/S.A. HAZARD TREATMENT ББ Unit# 10 SILVICULTURAL TRMT Acres H.T. OPERATION PERIOD 199 50 Slope Aspect | und nor Location Elevation | COMPACTION (Heavy) Wat **COMPACTION** (Light) UNDISTURBED . Sta DISPLACED EXCAVATED SKID TRAIL SMZ/ROCK COMMENTS (Include soil, geology, organic debris, other pertinent info) - 4 nn lang SHAPE OF UNIT AND PATTERN OF TRANSECT

<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. <u>COMPACTION (Light)</u> - Any other area not included in heavy COMPACTION or UNDISTURBED. <u>UNDISTURBED</u> - 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. 10/99

09/25/1991 Fortine - Blessed Ridge KOULENAL NALIUNAL FURLO 345.1-34 Unit 16 SOIL DISTURBANCE MONITORING FORM 34501034 CUTTING METHOD Letimbe. DATE (Lin SKIDDING METHOD OBSERVER dispersed dedicated If tractor: DISTRICT HAZARD TREATMENT ちぢ BALE/S.A. toralor 12 SILVICULTURAL TRMTY-5 Unit # Acres RRA remoi æ alel OPERATION PERIOD H.T. 611 Slope Aspect I WEST nord eren Elevation | Location 4600 4880 mint COMPACTION (Heavy) **COMPACTION** (Light) UNDISTURBED DISPLACED EXCAVATED SKID TRAIL SMZ/ROCK 4-16-11 COMMENTS (Include soil, geology, organic debris, other pertinent info) rudding: so anglace men 1 6n GO San 21. sur Ad to d-21-2-C SHAPE OF UNIT AND PATTERN OF TRANSECT

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

		12/03/1991
_		Rexford - Good Creek Pest Control
	111-05-078	g Unit 1
		11105078
	KOOTENAI NATIONAL FO	
	L DISTURBANCE MONTO	
TE Dec. 3, 1991	CUTTING METHOD	clipped and end - t- stur
	SKIDDING METHOD	clipped, processed-at-stump
SEF. Kuennen	If tractor:	dispersed dedicated
Keyford QC	HAZARD TREATMENT	uispersed dedicated
LID.A. <u>Good Cr-P.C.</u> Init # 1. Acres 28		Harvest all LPP: Seed Tree
$\frac{1}{5AF}$		Dec. 1990 / Jan. 1991
	Aspect 1 //5°-	-165°
ocation		- 5450
OMPACTION (Heavy)	2107411011 7720	3/2
		11/ 1
	A A A A	Mrough
OMPACTION (Light)	une	
NDISTURBED		
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)IS LACED		
EXCAVATED SKID TRAIL		
SMZ/ROCK		
CC IMENTS (Include soil, geology, organ		
No publing, some	displacements	n main shid Trail + landing.
Prentois fisplaceme	at had accur	ed on all roads built to
- vage large snap	s from 1910 lun	1-n
remain shit to	all. Soil from	en in trail, but not in
administrarla.	/	
- 16" of snow tur	ing mart of a	renation.
One		
	0507	
HAPE OF UNIT AND PATTERN OF TRAN	SECT	
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ACTION (Heavy) - Any place where future vegetative growth will be significantly impacted, i.e., skid trails (both leavily 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. <u>UNDISTURBED</u> - 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.

03/21/1990 Fisher River - Lonesome Fire Salvage 57901022 - 8M **KOOTENAI NATIONAL FOREST** Unit 1 SOIL DISTURBANCE DATA FORM 57901022 DATE 3.21.90 CUTTING METHOD <u>clippen</u> (6) OBSERVER Kuennen R/S SKIDDING METHOD_ DISTRICT Fisher Rever HAZARD ABATEMENT burned landings SILVICULTURAL <u>C</u>C OPERATION PERIOD Feb - Man '90 Walk through COMPACTION(Heavy) COMPACTION (Light) UNDISTURBED DISPLACED EXCAVATED SKID_TRAIL SMZ/ROCK COMMENTS Unit 1: 8A; 5-20% slope; El-4700; SE Aspec H.T. - 620; Unned landings-1990 Special Treatment your in middle funct. Shape of Unit and Pattern of Transect Part of 1988 Dry Fork Fire

05/10/1990 Fisher River - Smokey's Despair Fire Salvage 1-55906022 -24A KOOTENAI NATIONAL FOREST Unit 2 & 3 SOIL DISTURBANCE DATA FORM -55906033-31A 55906032 55906033 CUTTING METHOD _____ DATE 5-10.90 OBSERVER Kulnnen SKIDDING METHOD K7SHAZARD ABATEMENT burned landings DISTRICT Fisher Kiven SALES mokens Despan F.S. SILVICULTURAL CC Unit No. 🝠 OPERATION PERIOD Dec 89 - Jan -Walk through COMPACTION(Heavy) COMPACTION (Light) UNDISTURBED DISPLACED EXCAVATED SKID TRAIL SMZ/ROCK COMMENTS 24A: 5-15% slame; Ele-4900-5050 & aspect; Mut 2: H.T. - 620; burned landings - 1990 A: 15-25% slope; Ele-4800-5000. E aspect; burned Shape of Unit and Pattern of Transect Part of 1988 Day Fack Fire

05/10/1990	
Fisher River - Freckled Horse Fire Salvage	KOOTENAI NATIONAL FOREST
Unit 1, 10, 11 & 13 56008054 56008060 58008014 56008058	SOIL DISTURBANCE DATA FORM
DATE <u>5.10.90</u>	cutting METHOD hand 10, 11, 12; clippen -1
OBSERVER Kulennen	skilding METHOD / Cable 10, 11, 12; RTS-1
DISTRICT Fisher Kine	HAZARD ABATEMENT BB-1992, burn landings 199.
SALE Frechled Horse [S SILVICULTURAL CC CC w/ reserves
V,10,11,12	OPERATION PERIOD Dec 89 - Feb. 90-Unit I
COMPACTION(Heavy)	July- Aug '90 Units 10-12
	Wark Through
DISPLACED	
EXCAVATED SKID TRAIL	
SMZ/ROCK	
COMMENTS	
	4:48A: 20-357, slope; Ele- 4900-5400; landing-1992: H.T. 730
1 aspect; H.T 29	: 33A; 40-55% slope; Ele - 3300 - 3900'; 2; BB-1992
Unit 11 : 5003014; NE-14 Waspert; H.T	63A; 35-50% slope; Ele - 3300-3900; 292; BB-1993
	: 30A; 30-45% slope; Cle - 3800-4200'; ; buaned landings 1992
Part of Dry Fork F.	Tre 1988
· · /	

05/10/1990 55405100 Fisher River - Camp Creek Pest Control Unit 15 KOOTENAI NATIONAL FOREST 55405100 SOIL DISTURBANCE DATA FORM cont# 46253 DATE 5.14.90 CUTTING METHOD OBSERVER Kuennen- Farmer- Briggemaskindding METHOD RTS HAZARD TREATMENT BB -1991 DISTRICT SILVICULTURAL TREATMENT CC. SALE Unit No. OPERATION PERIOD Mud May 1990 (3700-14200) (Psime/Vaca Ale: 4100 H.T.; 250 slope: 21% spirt COMPACTION(Heavy) ñ COMPACTION(Light) UNDISTURBED DISPLACED EXCAVATED SKID TRAIL SMZ COMMENTS 🖗

<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. <u>COMPACTION(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.

TRANSECT SUMMARY FORM

	Trans	<u>ect 1</u>	Trans	ect 2	Trans	<u>ect 3</u>	Trans	<u>ect 4</u>	Trans	<u>ect 5</u>	TOT	ALS
	Pts.	00	Pts.	8	Pts.	ક	Pts.	જ	Pts.	8	Pts.	95
HEAVY		 						Ì				1
LIGHT				 								•
UNDISTURB	1						 					
DTALS	 	 	 	 	 	 	 	 	 		 	
DISPLACED			 	<u> </u>			· · ·				 	
EROSION	-		<u>.</u> }	+ 					 		+ 	
PUDDLED			_ 	<u>-</u> 			+	+ 				 ·
SMZ		<u> </u>		+ 			+	+ 			↓	
ROCK		/ 		+ 			+ 	/ 	 	1		
BURN PILES	5			+ 	+		+	∔ 	 	 	 	

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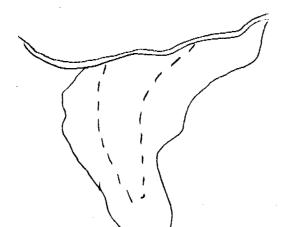
06/13/1990 571026 -1 Fisher River - Burnt Boundary Fire Salvage KOOTENAI NATIONAL FOREST Unit 1 & 2 57902009 57903081 57903081-2 SOIL DISTURBANCE DATA FORM CUTTING METHOD <u>clipper</u> DATE 6.13.90 OBSERVER Kalennen SKIDDING METHOD KTDISTRICT Fisher River HAZARD ABATEMENT 1- Grapple pile SALE Burnt Boundam F.S. SILVICULTURAL <u>CC</u> Unit No. 117 OPERATION PERIOD COMPACTION(Heavy) COMPACTION (Light) UNDISTURBED DISPLACED EXCAVATED SKID_TRAIL SMZ/ROCK COMMENTS uni 1-51702009; 41A; 15-25% slope; Ele: 4800-5200'; E-SE aspert; H.T- 625; X 2 - 5790308: 53A; 10-20% slope; Ele - 5200-5500, aspect; HT, 670 Burned landings-1990 eatment Zone along S + NE edges of Unit 1; also LPS in 11 Shape of Unit and Pattern of Transect Part of 1988 Dry Fork Fire

06/13/1990 Fisher River - Big Red	Fire Salvage	Unit 1	57903085
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	51903095-1 KOOTENAL NATION SOIL DISTURBANCE	
•	DATE 6.13.90 CUTTING MET	HOD hand clipper un 1/4/03
	OBSERVER Kummen SKIDDING ME	THOD RTS
	DISTRICT Fisher River HAZARD ABA	TEMENT Yarded tops
	SALE Big Red F.S. SILVICULTUR	AL 5D
	Unif No OPERATION P	ERIOD
	COMPACTION(Heavy)	
	COMPACTION (Light)	
-	DISPLACED	
	SMZ/ROCK	
	COMMENTS	
	Unit 1: 57903085: VID-20 H.T 625, burned hand peter - 199	2. burned landings - 1991
	Protected stream course along N 1	oundang
	Shape of Unit and Pattern of Transect	
f	Part of 1988 Duy Fork Fire	
	V	

06/13/1990 579 3083 - 3 Fisher River - New Boundary Fire Salvage KOOTENAI NATIONAL FOREST Unit 3 & 5 51903080-5 SOIL DISTURBANCE DATA FORM 57,903083 57903080 DATE <u>6 · 1</u> 3 · 90 hand CUTTING METHOD SKIDDING METHOD _____ Cable OBSERVER Kulmmen DISTRICT Fisher River HAZARD ABATEMENT_ SALE New Boundary F.S. SILVICULTURAL <u>CC</u> Unit No. OPERATION PERIOD <u>Summer 1989-3</u> fall <u>188-5</u> COMPACTION(Heavy) COMPACTION (Light) UNDISTURBED DISPLACED EXCAVATED SKID_TRAIL SMZ/ROCK COMMENTS Unit 3: 57903083; 5A; 35-45% slope; Ele- 4900-5100, SE acpect; H.T. 323; burned landings-1990 Unit 5: 57903080; 36A; 30-407, slope; Ele- 4600-5000'. E aspert; H.T.- 731; burned landing, SMZ in mildle Junit 5; LD 5-unmerchantable Shape of Unit and Pattern of Transect Partof 1988 Dry Ford Fire

09/20/1990 Fisher River - Devastation Alley 55902066 **KOOTENAI NATIONAL FOREST** Unit 1 55902066 SOIL DISTURBANCE MONITORING FORM Lost # 47475 01990 CUTTING METHOD DATE OBSERVER SKIDDING METHOD DISTRICT If tractor: dispersed dedicated Calle HAZARD TREATMENT SALE/S.A. BB 1991 Unit # SILVICULTURAL TRMT Acres H.T. **OPERATION PERIOD** 9 90 Slope Aspect | $\leq \rightarrow \leq$ 5-6 Location steep face into Elevation I COMPACTION (Meavy) 1 d **COMPACTION** (Light) UNDISTURBED DISPLACED **EXCAVATED SKID TRAIL** SMZ/ROCK COMMENTS (Include soil, geology, organic debris, other pertinent info) .to SHAPE OF UNIT AND PATTERN OF TRANSECT



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

09/20/1990 Fisher River - Black Horse Salvage **KOOTENAI NATIONAL FOREST** Unit 2 559.6-34 SOIL DISTURBANCE MONITORING FORM 55906034 at 7.0 90 CUTTING METHOD DATE OBSERVER SKIDDING METHOD ÷ DISTRICT If tractor: dispersed dedicated ver2 - SATURAZARD TREATMENT SALE/S.A. NA رميرج الا SILVICULTURAL TRMT Unit # Acres 6 3 Salvacy CC H.T. OPERATION PERIOD 30 Slope Aspect | non ene Location Elevation | 15001 COMPACTION (Heavy) **COMPACTION** (Light) UNDISTURBED DISPLACED EXCAVATED SKID TRAIL SMZ/ROCK COMMENTS (Include soil, geology, organic_debris, other pertinent info) 117 , to An Skil di 11 1 Dun Farl SHAPE OF UNIT AND PATTERN OF TRANSECT

<u>COMPACTION (Heavy)</u> - Any place where future vegetative growth will be significantly impacted, i.e., skid trails (both reavily 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. <u>UNDISTURBED</u> - 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.

09/20/1990 Fisher River - Black Horse Fire Salvage **KOOTENAI NATIONAL FOREST** Unit 3 559.6-35 SOIL DISTURBANCE MONITORING FORM 55906035 90 CUTTING METHOD £. DATE SKIDDING METHOD OBSERVER no KTS /If hactor: TAZARD TREATMENT dispersed dedicated DISTRICT ВC SALE/S.A. Buch Unit # SILVICULTURAL TRMT Acres OPERATION PERIOD H,T. 530 87 Aspect I Slope 3497 N Elevation I 4800 Location COMPACTION (Heavy) **COMPACTION** (Light) UNDISTURBED DISPLACED **EXCAVATED SKID TRAIL** SMZ/ROCK COMMENTS (Include soil, geology, organic debris, other pertinent info) SHAPE OF UNIT AND PATTERN OF TRANSECT

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

10/23/1990 35 43 35 2 KOOTENAI NATIONAL FOREST Fisher River - Crossroads Fire Salvage Unit 2 SOIL DISTURBANCE DATA FORM - 55907054 DATE 10,23,90 CUTTING METHOD <u>clipper</u> OBSERVER Kuennen SKIDDING METHOD RTS HAZARD ABATEMENT<u>burnlandings</u>, grapple pile silvicultural <u>CC</u> upper area DISTRICT Fisher River SALE Crossonolofine S. Unit No. - 4914 OPERATION PERIOD Welk through COMPACTION(Heavy) COMPACTION (Light) UNDISTURBED DISPLACED EXCAVATED SKID_TRAIL SMZ/ROCK COMMENTS Unit 2: 15-30% slope; E aspect; Ele-4800-5300; H.1.-620 Burn landings - 1920 Special treatment zone along trainggewan + rock SMZ abjacent to traingge in SE corner Shape of Unit and Pattern of Transect Part of Aug 1988 Dry Fork Fire

10/04/1990 Troy - Red Top Cyclone Unit 1	40301157
	I NATIONAL FOREST TURBANCE DATA FORM 49
ATE 10.4.90	CUTTING METHOD hand
-OBSERVER Auennen-Church-Willie	inskidding METHOD Cable
DISTRICT Tron	HAZARD TREATMENT BB
SALE Pettap Cyclone Unit No. 1 13Acres	SILVICULTURAL TREATMENT <u>CC</u>
H.T. WHICHMA	OPERATION PERIOD Summer 1990
Hill Blick-Memory	Ele: 4800
COMPACTION (Heavy)	Aspetti SSE
UNDISTURBED	
DISPLACED	
EXCAVATED SKID TRAIL	
SMZ	
comments Lots of wet spots w/	harvestunte - not accounted for
on avoiding these areas.	and work guine of produce
· /	
	<u></u>
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<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. <u>COMPACTION(Light)</u> - any other area not included in heavy COMPACTION or UNDISTURBED. <u>UNDISTURBED</u> - 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.

06/26/1989 539 05 040 Libby - Swamp Schrieber Unit 1 KOOTENAI NATIONAL FOREST 53905040 SOIL DISTURBANCE DATA FORM CUTTING METHOD Clipper / hand DATE Cher **OBSERVER** SKIDDING METHOD 990 DISTRICT HAZARD TREATMENT SILVICULTURAL TREATMENT CC -1989 SAL Juram Unit No. reo: 34 une 1989 nk 1/03 OPERATION PERIOD HT: Abla Ele: 4700-5100 Aspect: Walk-through COMPACTION (Heavy) COMPACTION(Light) UNDISTURBED DISPLACED EXCAVATED SKID TRAIL SMZ OMMENTS SHAPE OF UNIT AND PATTERN OF TRANSECT Ash cap 8-12". Soil moisture still high.

<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. NDISTURBED - no signs of any machinery or skidding activity.

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

06/26/1989 Libby - Swamp Schrieber Unit 2 NAI NATIONAL FOREST 53905018 SOIL DISTURBANCE DATA FORM CUTTING METHOD clippen/hand ATE 61261 189 SKIDDING METHOD Skiplend OBSERVER spring 1990 DISTRICT HAZARD TREATMENT SILVICULTURAL TREATMENT CC SALE -Unit No. Acres: 39 OPERATION PERIOD June 1989 nk 1103 HT: WHIChur. Elc: 4950 - 5400 Aspect north walk-through COMPACTION (Heavy COMPACTION(Light) UNDISTURBED DISPLACED EXCAVATED SKID TRAIL SMZ OMMENTS Ash cap 6-10 "over till. Soil moreture still high-mean ridge top about ready. #200 1. unit 7 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. IDISTURBED - no signs of any machinery or skidding activity. ISPLACED - any place soil has been mounded by machinery, also include in heavy or

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

06/26/1989 539 05 021 Libby - Swamp Schrieber Unit 4 OTENAI NATIONAL FOREST 53905021 SOIL DISTURBANCE DATA FORM 'hand 26189 CUTTING METHOD / DATE eacer OBSERVERKUCANEN/Decv SKIDDING METHOD 990 DISTRICT HAZARD TREATMENT SILVICULTURAL TREATMENT CC-1989 SALE Su me 1989 nk1/03 H.T. - Apla/Clun OPERATION PERIOD Ele: 4300 - 4500 Aspect: SE- SW COMPACTION(Heavy) - Throug COMPACTION(Light) UNDISTURBED DISPLACED EXCAVATED SKID TRAIL SMZ COMMENTS fairly thin 4-6". Soil moisture about right. SHAPE OF UNIT AND PATTERN OF TRANSECT Unity

<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.

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

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

06/26/1989 536.01 024 Libby - Little Cherry Bugs Unit 1 KOOTENAI NATIONAL FOREST SOIL DISTURBANCE DATA FORM 53601024 DATE 6.26.89 per/hand CUTTING METHOD OBSERVER<u>Kuennen I Deery</u> SKIDDING METHOD HAZARD TREATMENT DISTRICT SILVICULTURAL TREATMENT CC w/ receives SALE le Chern Unit No. OPERATION PERIOD nk 1/03 H.T. - WHIChen ieast slope: 5-15 Ele: 3450-3550 11) alk- Through COMPACTION(Heavy) COMPACTION(Light) UNDISTURBED DISPLACED EXCAVATED SKID TRAIL SMZ WD amount. Class Lost review w/ Russ Graha COMMENTS ter. 10-7 Mascow SHAPE OF UNIT AND PATTERN OF TRANSECT

Soils too wet to exercise on.

<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.

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

SMZ - include within transect if within harvest unit.

06/26/1989 537 05 001 Libby - Little Cherry Bugs Unit 2 KOOTENAI NATIONAL FOREST 53705007 SOIL DISTURBANCE DATA FORM 2.6 ATE 6 CUTTING METHOD C Decv OBSERVER K SKIDDING METHOD hennen DISTRICT HAZARD TREATMENT SALE SILVICULTURAL TREATMENT Unit No. W OPERATION PERIOD Summ HT: WF ١û١ Ele: 3500 510pe: 0-10 A-s COMPACTION (Heavy) COMPACTION(Light) UNDISTURBED DISPLACED EXCAVATED SKID TRAIL SMZ OMMENTS

<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. NDISTURBED - no signs of any machinery or skidding activity.

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

07/13/1989 Libby - South Flower Bugs 101080 Unit 1A & 1B AI NATIONAL FOREST 52401080 SOIL DISTURBANCE DATA FORM DATE 7.12.89 per/hand CUTTING METHOD C SKIDDING METHOD Inal OBSERVER TU CMpcn HAZARD TREATMENT /a-BB, 16 dozen pile DISTRICT SILVICULTURAL TREATMENT SALE t No. OPERATION PERIOD Acres: 18 + 10 Walk-through COMPACTION(Heavy) COMPACTION(Light) UNDISTURBED DISPLACED EXCAVATED SKID TRAIL SMZ OMMENTS Unit 16 strinin a top wet for some site SHAPE OF UNIT AND PATTERN OF TRANSECT



<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. NDISTURBED - no signs of any machinery or skidding activity.

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

SMZ - include within transect if within harvest unit.

07/13/1989 Libby - Pipe Flats Posts 517 04 00 ROOTENAL NATIONAL FOREST Unit 7-14 51704002 SOIL DISTURBANCE DATA FORM DATE 7.13.89 CUTTING METHOD chaper SKIDDING METHOD nactor OBSERVER # ennen Deery HAZARD TREATMENT DP DISTRICT зb SILVICULTURAL TREATMENT SW seed w/ Reserves SALE No. BugS) OPERATION PERIOD Summer 1989 H.T. DEIVaca Fle: 2450-2500 1) olk - Through COMPACTION(Heavy) COMPACTION(Light) UNDISTURBED DISPLACED EXCAVATED SKID TRAIL SMZ COMMENTS houst Sol ma outwase , the as ara Clas to full

<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.

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

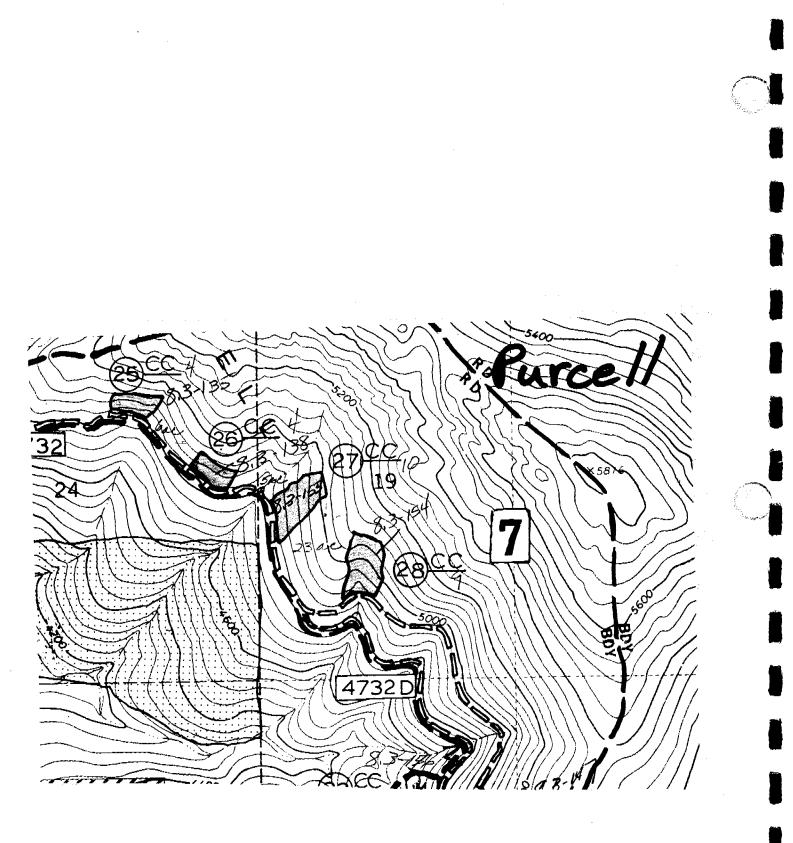
DISPLACED - any place soil has been mounded by machinery, also include in heavy or light compaction.

SMZ - include within transect if within harvest unit.

06/26/1989 26- 508 03 136 27-508 03 155 - 9 A KOOTENAI NATIONAL FOREST Libby - Purcell Unit 26-28 SOIL DISTURBANCE DATA FORM 50803138 50803155 50803154 28-508 03 154 DATE 1/13, CUTTING METHOD **OBSERVER** SKIDDING METHOD HAZARD TREATMENT $\mathcal{D}P$ DISTRICT SALE Darh Pince SILVICULTURAL TREATMENT (Unit No OPERATION PERIOD Summer 89 H.T. WRCICIUM Ele. 4900-5000 Stope: 15 - 30% Aspert: 5-W COMPACTION (Heavy) COMPACTION(Light) UNDISTURBED DISPLACED EXCAVATED SKID TRAIL SMZ COMMENTS (pper Ashover till. e Ven wet basin of C.F. Pape Soil

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. JNDISTURBED - 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.



08/24/1989 55902043 - 2 Fisher River - Devastation Alley Fire Salvage EEGOTOWA-2A Unit 3, 4A **KOOTENAI NATIONAL FOREST** 55902043 55902047 SOIL DISTURBANCE DATA FORM DATE 8-24-89 CUTTING METHOD Mund clipper uennen/Mc Brid skilding Method Calle **OBSERVER** DISTRICT Fisker River HAZARD ABATEMENT $silvicultural _CC$ SALE Devastation Alley F.S. Unit No. 3, 4 A OPERATION PERIOD Summer '89 Walk-Throughs COMPACTION(Heavy) **COMPACTION** (Light) UNDISTURBED DISPLACED **EXCAVATED SKID TRAIL** SMZ/ROCK COMMENTS Vo activity SMZ m 4A 10-50% slope, Saspert, 4700 Ele, H.T. 620 Unit 3: Schoqed 1989 CC. Journed Jankings 1991 S aspect. The - 4900 HT - 620 Unit 4A: 81 A. 10-25% love landings 1991 Salvoged 1989. burned Shape of Unit and Pattern of Transect Part of Aug. 1988 Dry Fork Fire

-5590712 5520707 - 3 - 5590760 SOIL	DISTURBANCE DATA FORM
date <u>8·24·89</u>	CUTTING METHOD <u>clipper</u>
OBSERVER Kninnen	SKIDDING METHOD RTS
DISTRICT Eister River	HAZARD ABATEMENT burn landings
SALE Black Bush Fire Sat.	SILVICULTURAL CC-19 Seed Tree-3
Unit No. 1 4 3 56A, 30A	OPERATION PERIOD winter 89-90
COMPACTION(Heavy)	Walk through
COMPACTION (Light)	
DISPLACED	
EXCAVATED SKID TRAIL	
SMZ/ROCK	
COMMENTS	
Unit 1: 55907091. I-NW aspect, 4800-5000' CC- 1989-1990, burned	- 3.5A; 55907120 - 21A; 10-2570 stope, ele, H.T-621 landings 1991
N-NW aspect, 4600-470	6A, 55907062-14A; 10-20% slape, o ele. HT 621 ud landing,

~~ ...

3/88

08/31/1989 Fisher River - Snafu Salvage 58000 195 - 2014 **KOOTENAI NATIONAL FOREST** SOIL DISTURBANCE DATA FORM 58007089/58007108 52007173 - 10A DATE 8.3/.89 CUTTING METHOD CUPPER SKIDDING METHOD_RTS OBSERVER 7 uennen In Fire Salvage HAZARD ABATEMENT burn landings DISTRICT SALE Fre SILVICULTURAL CC Unit No. OPERATION PERIOD Dec - Lan '88 - 89 COMPACTION(Heavy) Walk Through COMPACTION (Light) UNDISTURBED DISPLACED EXCAVATED SKID_TRAIL SMZ/ROCK COMMENTS 20% slope E aspect; 47.00-5100-E/e; Unit 2 lings - 1990; ent one- slang N boundary eliscent of Un no Shape of Unit and Pattern of Transect Part of 1988 Dry Fack Fine

3/88

08/31/1989 -33A -57914013 Fisher River - Stump Holes and Ashes **KOOTENAI NATIONAL FOREST** 904059- 222 Unit 1 & 2 SOIL DISTURBANCE DATA FORM 57904013 57904059 DATE 8.31.89 CUTTING METHOD __ CUPPEN OBSERVER Kuennen RTS SKIDDING METHOD DISTRICT Fisher Kiver HAZARD ABATEMENT_ AshF.S. SILVICULTURAL <u>CC-2</u> <u>LTM-1</u> SALE Strimp Holes + Unit No. 1 1 OPERATION PERIOD Jan-Febr 89 COMPACTION(Heavy) Watthrough COMPACTION (Light) UNDISTURBED DISPLACED EXCAVATED SKID_TRAIL 38A; 15-25% slope; Ele - 4700-4900; NW expect; SMZ/ROCK unit 2: H.T. 732 4900-5100' Ele-, NW aspect. COMMENTS 38A; 15-2570 slope; Unit. H.T. - 73 in anit 1 + adjacent to Unit 2 Special le in both units ILDS-un seed trees in Unit 1, all LPP in Unit Selent run as hat Shape of Unit and Pattern of Transect Part of 1988 Dry Fack Fire

	09/19/1989 Libby - Radio Tower Fire Salvage
	Unit 2 KOOTENAI NATIONAL FOREST SOIL DISTURBANCE DATA FORM
DATE 9.19.89	cutting method trand clipper w(30)05
OBSERVER Kulmer	SKIDDING METHOD \underline{RTS}
DISTRICT Lebby	HAZARD ABATEMENT
SALE Rodio Tower F.S.	SILVICULTURAL 2-CC 3-CTM
Unit No. 2, 2. 414, 5A	OPERATION PERIOD
COMPACTION(Heavy)	Wack Through
COMPACTION (Light)	
UNDISTURBED	
DISPLACED	
EXCAVATED SKID TRAIL	
SMZ/ROCK	
COMMENTS Tap of Terrac	e-lacustrine soil, Large grooves created
Un Clyde Skiller sta	Winy visible. Early logging impact-heavy
<u>Ilmit 2 - CC 1990 +</u> 	1 A _ landing burned 1992; RTS shidded
<u>Unit 1 - 5-20.2 slag</u> 5A CC - 1990	e; Ele-2200; fat to w aspect; H.T 591;
Shape of Unit and Pattern of Transe	ct
Part of 1988 Redain	

3/88

07/12/1988 51502116 Libby - Blue Mountain Bugs Unit 6 **KOOTENAI NATIONAL FOREST** 51502110 SOIL DISTURBANCE DATA FORM <u>DATE 7.12 33</u> clipper/hand CUTTING METHOD SKIDDING METHOD Tractor RTS rk 1/03 OBSERVER \mathscr{H} DISTRICT Libby HAZARD ABATEMENT Bugs 25A SALE Blue SILVICULTURAL SW seed/reserve OPERATION PERIOD Summer 89 Ele-5260 T 67C COMPACTION(Heavy) Through wal COMPACTION (Light) UNDISTURBED DISPLACED EXCAVATED SKID TRAIL SMZ/ROCK COMMENTS Operations look good. Presale review. Shape of Unit and Pattern of Transect -X map w/ inspection report

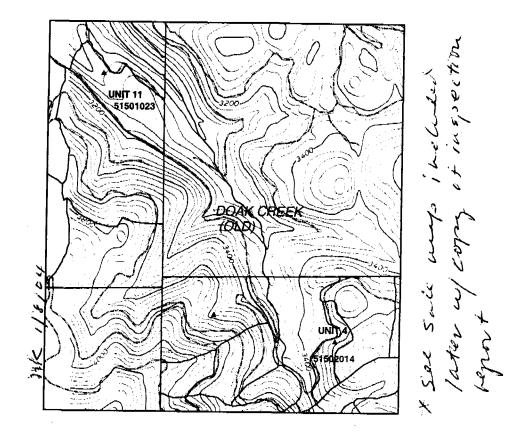
		KOOT	っろ <i>して</i>] ENAI NATIONAL FOR ISTURBANCE DATA F		07/12/1988 Libby - Bigfoot Bugs Resale Unit 2 51003017	
	DATE 7.12.88	_	CUTTING METHOD	leppe-	, lisuà	
San San San San San San San San San San	observer <u>Kuennen/Lil</u>	ly	SKIDDING METHOD_	RTS		
I	DISTRICT Libby Post	10	HAZARD ABATEMEN	<u>г БВ</u>	- 1990	
S	SALE Big foot Bugs	<u>ie 24/0</u>	SZ VICULTURAL <u>C</u>	1)	* *	
	$\frac{1}{2} \frac{1}$	uk	OPERATION PERIOD_	Sum	mer 89	
	570 COMPACTION(Heavy)		Ele-4 OU AST	non	A	
	COMPACTION (Light)				· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
 				· · · · · · · · · · · · · · · · · · ·		
	DISPLACED	, ,				
	EXCAVATED SKID TRAIL		· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	
	SMZ/ROCK				· · · · · · · · · · · · · · · · · · ·	
	COMMENTS			τ	1	
_	Unit should be n	ead ,	, to operate a	in w	hen done wf	
- -	Presale review	/				
_	HESONE PENTEW					
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_	·····					
_				······································		
S	Shape of Unit and Pattern of Transe	ct				

	-	51004075	07/12/1988 Libby - Bigfoot Bugs Resale
		KOOTENAI NATIONAL FOREST SOIL DISTURBANCE DATA FORM	Unit 3 51004075
	date 7.12.88	CUTTING METHOD_ CUTTING	2n
Caral and	OBSERVER Lucom en/Li	1/1 SKIDDING METHOD <u>RTS</u>	
	DISTRICT Libby	HAZARD ABATEMENT <u>BB</u>	1991
	SALE Bigfoot Bugs	HAZARD ABATEMENT <u>BB</u> le 6/24/03 uk SILVICULTURAL <u>CC</u>	
4	Umit No. <u>3</u> '457 690	9 OPERATION PERIOD	·····
HI	COMPACTION(Heavy)	Eli-5000 AS-SE	ngh
	COMPACTION (Light)		
	UNDISTURBED		
	DISPLACED		
	EXCAVATED SKID TRAIL		
	SMZ/ROCK		· · · · · · · · · · · · · · · · · · ·
1 million	COMMENTS		· · · · · · · · · · · · · · · · · · ·
-	Concurred w/ 5	ale administration The	at operations could
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-	· · · · · · · · · · · · · · · · · · ·		
-			
- , .			
-	Shape of Unit and Pattern of Transe	ect	

07/12/1988 51004015 Libby - Bigfoot Bugs Resale Unit 4 **KOOTENAI NATIONAL FOREST** 51004015 SOIL DISTURBANCE DATA FORM DATE 7:12.88 CUTTING METHOD chapis / han OBSERVER<u>Kuennen/Lilly</u> DISTRICT Libby Resale nK SKIDDING METHOD <u><u><u>R</u></u><u>T</u><u>S</u></u> HAZARD ABATEMENT<u>BB</u> 1991 3 SILVICULTURAL <u>CC</u> 6/26/0 SALE Bigfor Bags Unif N OPERATION PERIOD summer '92 HT 570 Ele - 4702 mana COMPACTION(Heavy) COMPACTION (Light) . UNDISTURBED DISPLACED EXCAVATED SKID TRAIL SMZ/ROCK COMMENTS Soil moistance is paropriate to start opene Shape of Unit and Pattern of Transect

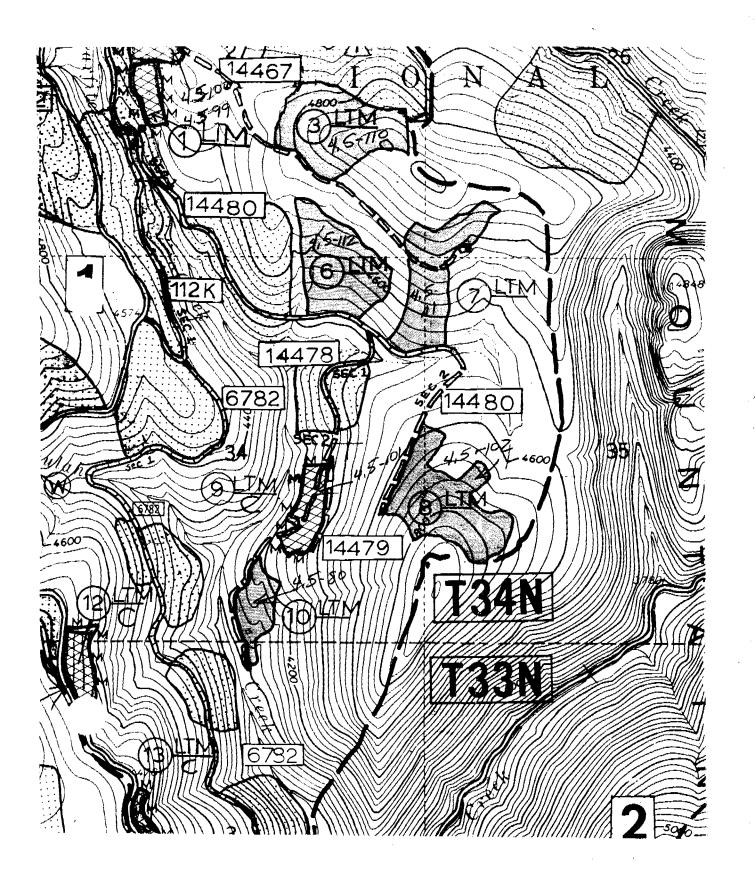
07/12/1988 51000057 Libby - Bigfoot Bugs Resale Unit 5 **KOOTENAI NATIONAL FOREST** 51003059 SOIL DISTURBANCE DATA FORM DATE 7.12.88 CUTTING METHOD CLEAN ermen. SKIDDING METHOD_ OBSERVER HAZARD ABATEMENT understory burn 1990 DISTRICT , 10 K SILVICULTURAL <u>CC</u> SALE Kia Unit'l Summer 98 OPERATION PERIOD 690 COMPACTION(Heavy) ろんと **COMPACTION** (Light) UNDISTURBED DISPLACED EXCAVATED SKID TRAIL SMZ/ROCK COMMENTS Unit lower mistare h - Soul when nel Shape of Unit and Pattern of Transect

	51ろ 0 ネご 14 KOOTENAI NATIONAL FOREST SOIL DISTURBANCE DATA FORM	07/12/1988 Libby - Doak Creek Unit 4 51502014
DATE 7.12.88	CUTTING METHOD	l.
observer Kuennen/Le	Un SKIDDING METHOD RTS	
DISTRICT Libby	/ HAZARD ABATEMENT <u>Unde</u>	return burn 91
SALE Doah Creek	silvicultural $\frac{CC}{\omega}$	reserves
Unit No. <u>4</u> 1571	OPERATION PERIOD X10-1	<u> </u>
H1260 COMPACTION(Heavy)	Ele-35th AS Inong	4
COMPACTION (Light)		
DISPLACED		
EXCAVATED SKID TRAIL		······
SMZ/ROCK		· · · · · · · · · · · · · · · · · · ·
COMMENTS		
Dout morshing sun	table for operations to be	gen :
		· · · · · · · · · · · · · · · · · · ·
· · · · · · · · · · · · · · · · · · ·		
Shape of Unit and Pattern of Tran	isect	



	51501023 KOOTENAI NATIONAL FOREST SOIL DISTURBANCE DATA FORM	07/12/1988 Libby - Doak Creek Unit 11 51501023
DATE 7.12.88	CUTTING METHOD have	d
OBSERVER Kuemen/L:	\underline{ll}_{y} skidding method \underline{kT})
DISTRICT Libby	HAZARD ABATEMENT	lerstory '91
SALE Doah Creek	SILVICULTURAL \underline{CC} ω	<u>57</u>
Unit No. <u>11</u> 40A	OPERATION PERIOD	<u>e '89</u>
HT 530 COMPACTION(Heavy)	Ele-3100 Asi NE	
COMPACTION (Light)		
DISPLACED		
EXCAVATED SKID TRAIL		
SMZ/ROCK		· · · · · · · · · · · · · · · · · · ·
COMMENTS		
Units satisfactory	for shidling operation	no
		· · · · · · · · · · · · · · · · · · ·
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	······	
······································		
Shape of Unit and Pattern of Trans	sect	

07/29/1988 0405112 Libby - Purcell OOTENAI NATIONAL FOREST Unit 6 SOIL DISTURBANCE DATA FORM 50405112 DATE 7.29.88 CUTTING METHOD OBSERVER<u>Kuennen/Jill</u> SKIDDING METHOD 7 restor DISTRICT Libby HAZARD ABATEMENT understand burn 1989 SALE Purcell SILVICULTURAL SW Soud/reserve Unit No. 6 36 A OPERATION PERIOD_ Summer 1988 HT.530 El-4600 rough COMPACTION(Heavy) COMPACTION (Light) UNDISTURBED DISPLACED EXCAVATED SKID TRAIL SMZ/ROCK COMMENTS Soil moisture still too high to begin piling Shape of Unit and Pattern of Transect



07/29/1988 50405102 Libby - Purcell Unit 8 **KOOTENAI NATIONAL FOREST** 50405102 SOIL DISTURBANCE DATA FORM DATE 7.29.88 ner hand CUTTING METHOD men/Lilly SKIDDING METHOD OBSERVER Δ HAZARD ABATEMENT Jone pile 91, bumpiles 97 DISTRICT Seed/reser SILVICULTURAL $\underline{S}\omega$ SALE ЦЦĀ Unit N OPERATION PERIOD Summer 1990 FT 530 Ele-47 As. $M \omega$ COMPACTION(Heavy) COMPACTION (Light) UNDISTURBED DISPLACED EXCAVATED SKID TRAIL SMZ/ROCK COMMENTS wet to begin piling. 5ti || too

Shape of Unit and Pattern of Transect

50405080 07/29/1988 Libby - Purcell **KOOTENAI NATIONAL FOREST** Unit 10 SOIL DISTURBANCE DATA FORM 50405080 DATE 7.29.88 CUTTING METHOD_ham u ennen /Lelly OBSERVER K SKIDDING METHOD Tractor HAZARD ABATEMENT for espil: 1988, burn 1989 DISTRICT Libby SILVICULTURAL SW seed/reserve SALE_Puncell mmer 1988 OPERATION PERIOD_Sec 1511 COMPACTION(Heavy) COMPACTION (Light) UNDISTURBED DISPLACED EXCAVATED SKID TRAIL SMZ/ROCK COMMENTS Moisture content almost ready las operation to Shape of Unit and Pattern of Transect