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: ∕⊠¤⊠::
<u>3 외 최 외 명 명</u> <u> </u>	e se de la la la se	32222222222222222222222222222222222222	TT R ARA CAR TARA . EC. Correr 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	<u>B</u> Z Z Z Z Z /
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 салан Ал на салан сал 
trans		CL-2 LIMIT	* SFE JUNASOF	
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		- 4	Film	
		7993		
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 (zuille</u>	HAZARD TREATMENT	- UNDERBURN WIND FIRELINES
Unit # Acres	SILVICULTURAL TRMT	
H.T.	OPERATION PERIOD	SUMMER
Slope		
, Location COMPACTION (Heavy) <u>SI &amp; S</u>	TO DARMA	2 / 5 T T 16
List.	55/ 10 12 14 10 / 43 / 18 18 M	
COMPACTION (Light) AND AND AND	BRRAUX BRRAR BRAR	MARRARRA 199 198 22 CRARA
ANDORAD ARNOOR	ABB :: 712 / RARARARAR	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	
TRANSFOR	- Carlos and Carlos an	
' an Pup	No.	х. —
20+ JOE RUD HREA		
JARIZZE JI		Ś
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4	M A A A A A A A A A A A A A A A A A A A	
AND (		
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NARRA SWOR TENOR	+SCHIL TIME	
		<b>-</b>
		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
								· .		u		
DISPLACED												
EROSION												
PUDDLED												
SMZ												
ROCK												
BURN PILES											· · · ·	

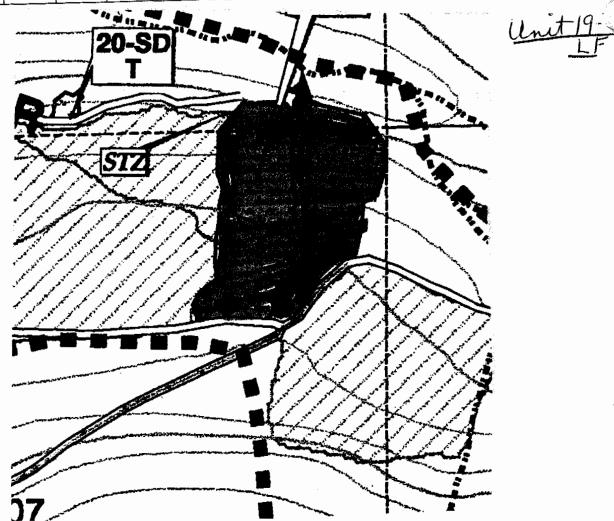
Boundary Mtn. Salvage 560 06 023 03/09/1999 Libby - Boundary Mtn Salvag **KOOTENAI NÁTIONAL FOREST** Unit 19 SOIL DISTURBANCE MONITORING FORM 56006023 1999 C V.s CUTTING METHOD rer ÎΈ SKIDDING METHOD 5 OBSERVER dedicated If tractor: dispersed DISTRICT by HAZARD TREATMENT yet SALE/S.A. Boundar SILVICULTURAL 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<sub>n</sub> C) 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 C3 $\mathcal{O}$ 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

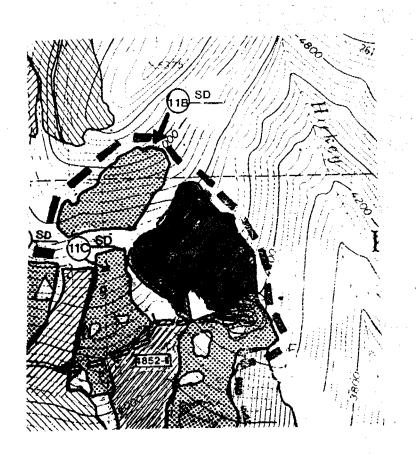
TRANSECT SUMMARY FORM



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> %   <b> </b>
		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	, <del>P</del> OCK	O	0	$\mathcal{O}$	0	0	Ø					0	C
	BURN PILES	0	Ø	0	0	Ø	0					0	0
		,			· · · · · · · · · · · · · · · · · · ·			  					



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 (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  $\Pi C$ 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 <sup>4</sup> 6 <sup>-21</sup>
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.

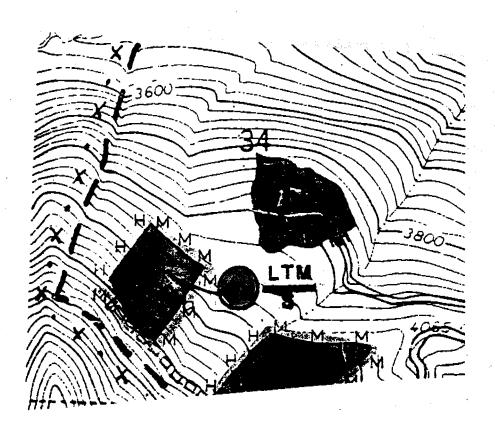
<u>COMPACTION(Light)</u> - any other area not included in heavy COMPACTION or UNDISTURBED. <u>UNDISTURBED</u> - no signs of any machinery or skidding activity.

<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	0		   				1				
PUDDLED	0	0		   		   			   			
SMZ	0	0			   							
ROCK	0	0			1	1						
BURN PILES	0	0				1						



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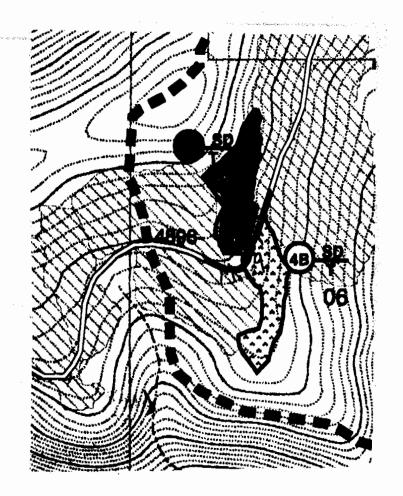
KOOTENAI NATIONAL FOREST SOIL DISTURBANCE DATA FORM 10/05/1999 Libby - Cripplehorse Salvage Unit 4A 55903017

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.

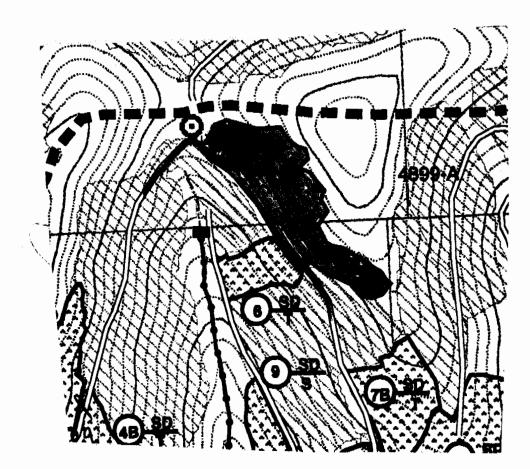
SMZ - include within transect if within harvest unit.

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	



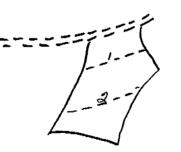
10/05/1999 55903039 Libby - Cripplehorse Salvage KOOTENAI NATIONAL FOREST Unit 5 SOIL DISTURBANCE DATA FORM --- 55903039 DATE 10.5.99 nched w/ excentor e dozen CUTTING METHOD clipper uennen SKIDDING METHOD ÖBSERVER HAZARD TREATMENT whole tree yard - left as is DISTRICTLibbi SILVICULTURAL TREATMENT\_SD/removedeadt 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.

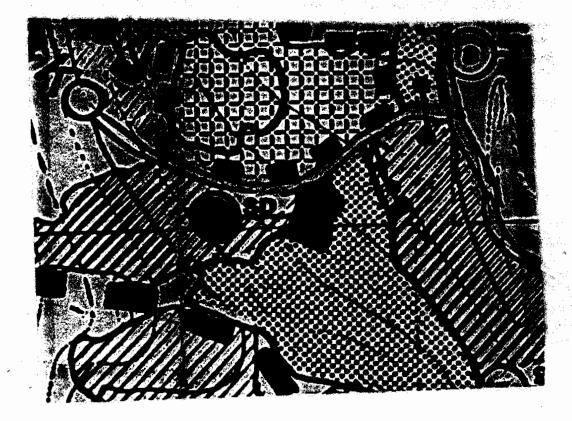
	TRANSECT SUMMARY FORM													
	Transect		Transec	$\frac{p c r}{t 2}$	Transect	t 3	Transe	ect 4	Transec					
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%		
D HEAVY i	30	17	13	10		>					43	14_		
s LIGHT t	130	73	81	64					3		211	69		
u UNDISTURB r	18	10	32	26					•	<u> </u>	50.	17		
b TOTALS	178	100	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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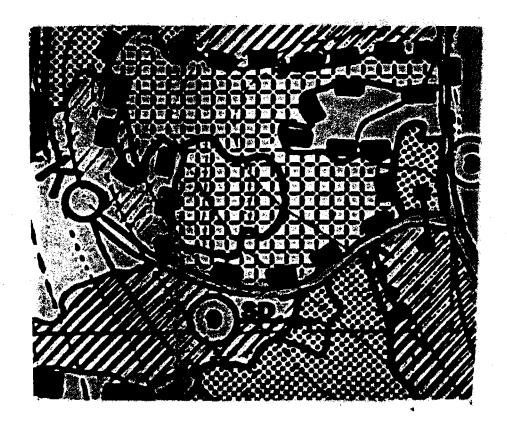


10/05/1999 68001026 Libby - Jet A Helicopter Salvage Unit 7 KOOTENAI NATIONAL FOREST 58001026 SOIL DISTURBANCE DATA FORM DATE\_10.5 CUTTING METHOD OBSERVER ennen SKIDDING METHOD Fall 99; 2 javator line for DISTRICT HAZARD TREATMENT SILVICULTURAL TREATMENT SALE Unit No. 1997 OPERATION PERIOD Acres Habitat 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 ANL 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			·	
	Trans	er 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.

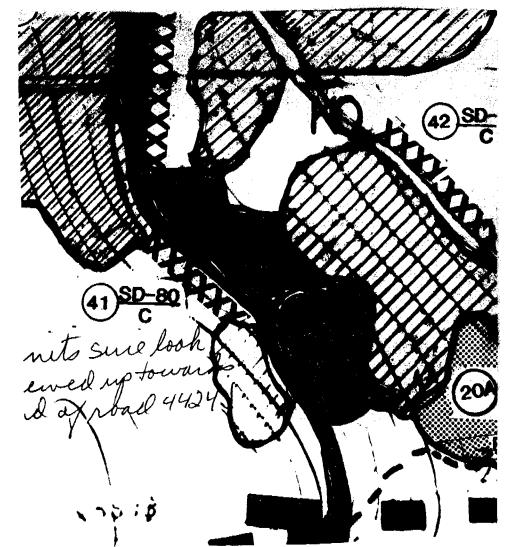
UNDISTURBED - No signs of any machinery or skidding acitvity.

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

1	Transec	1	Transect 2		Transe	Transect 3		ct 4	Transect 5		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 <sub>a s</sub> 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

b

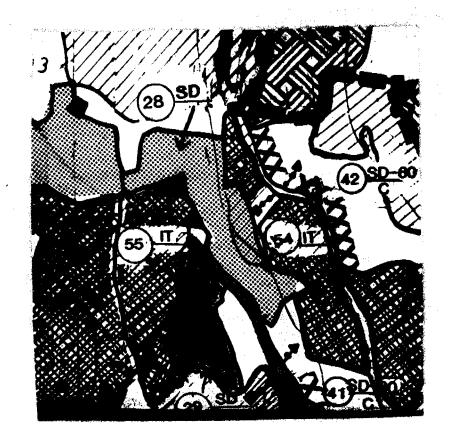
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10/05/1999 Libby - Upper Fivemile Salvage 55701091 Unit 29 KOOTENAI NATIONAL FOREST 55701091 SOIL DISTURBANCE MONITORING FORM CUTTING METHOD RATE SKIDDING METHOD SERVER Virken Mc Bride If tractor: dedicated STRICT dispersed Fivemile Schrage HAZARD 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.

	-or	vel	Min	TRANS	SECT SU	JMMAB)	FORM						
	Transect 1 Transect 2 Transect 3 Transect 4 Transect 5 TOTALS												
	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	$\bigcirc$	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 eralla 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.

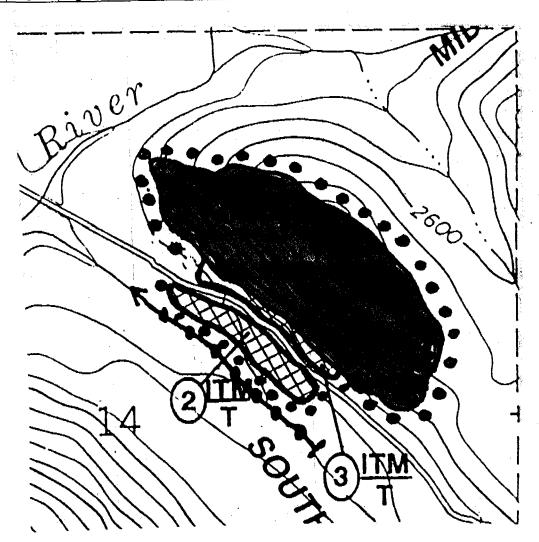
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	low	uth	m	THAN	SECT SU	MMAR	( FORM						
	Transec	t 1	Transect 2		Transect 3		Transect 4		Transect	5	ТОТ		
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	ina di
D HEAVY i	17	4	10	3						1	27	4.5	1
s LIGHT t	190	48	170	47							360	47.5	
u UNDISTURB	190	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	$\phi$	0				·			0	0	

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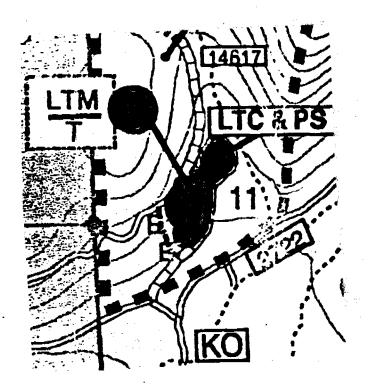
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erroy Mtn. Helicopter Re-ad 704 08 1 KOOTENAI NATIONAL FOREST Libby - Berray Mountain SOIL DISTURBANCE MONITORING FORM Unit 2 70408003 CUTTING METHOD ATE BSERVER SKIDDING METHOD ซีเรtrict dedicated If tractor: dispersed HAZARD TREATMENT not 1 yeta SALE/S.A. SILVICULTURAL TRMT See Unit # Acres **CONTRATION PERIOD** bottom), DF/Phone (hi H.T. WH 99 Slope -2500' 2400 /e: 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

<sup>7/97</sup> 

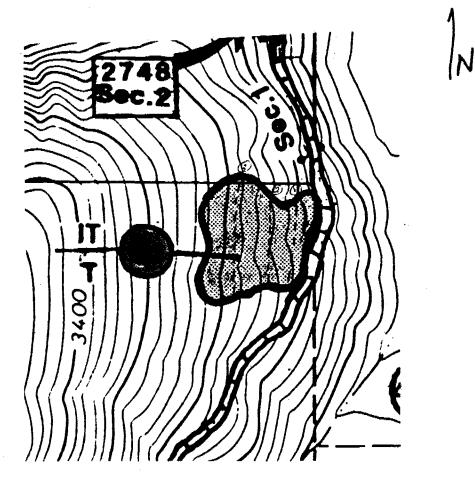
		D	ver			SECT SUN	MAR		Vower.	e The	troi	l		E
	(	Transec		Transed		Transect	3	Transe	ct 4	Transe	<u>ct 5</u>	TOT		Riterii T
		Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	-
	D HEAVY i	16	10	7	6			9	6	5	-5	23	9	
-	s LIGHT t	100	64	40	37				÷			140	53	
	u UNDISTURB r	40	26	60	56					ļ		100	38	
	b TOTALS	156	100	107	100		. <u></u>					263	100	4
											<u> </u>			-
	DISPLACED	12	8	6	6						<u> </u>	18	9	
4	- 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 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		<u>Iransec</u>		Transe		Transe		Transec		TOTALS	
		Pts.	%	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				<b></b>	20	3
1	PUDDLED	C	0	0	Ø	0	$\partial$						
	SMZ	0	$\mathcal{O}$	0	0	$\hat{C}$	0_						
	ROCK	C	Û		$\mathcal{C}$	0	$\bigcirc$						
	BURN PILES	0	0	0	0	$\overline{\mathcal{O}}$	$\bigcirc$						



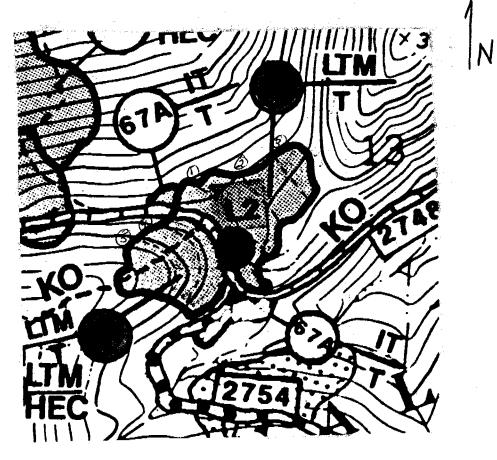
09/29/1999 Smeado-Rice 913 04 067 **Cabinet -Smeads Rice** Unit 67 71304067 **KOOTENAI NATIONAL FOREST** SOIL DISTURBANCE MONITORING FORM CUTTING METHOD ATE SKIDDING METHOD OBSERVER hnen K1 If tractor: dispersed dedicated DISTRICT bine Hilt HAZARD TREATMENT SALE/S.A. Smeads-Rice texuet Unit # <u>67</u> 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.

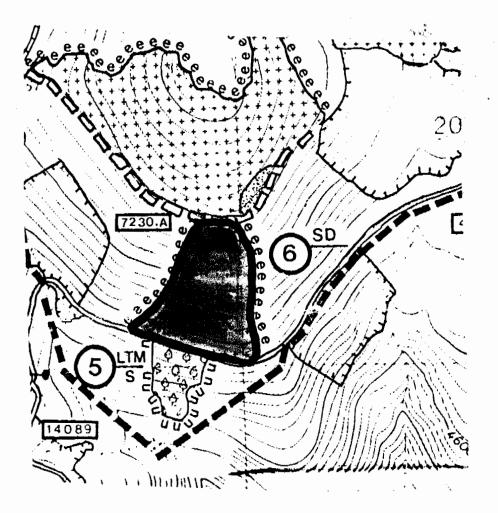
	N	(1)	<u> </u>				FORM	. 4.1	5	5		5	
ſ			<u>/ / /</u> Transec	<u>t</u> 2	Transe		Transect 4		Transec	t 5	TOT		<b>1</b>
	Transec Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	
DHEAVY	i9	7	E.	6	11	6	21	9_	13	B	12	7 <sup>.</sup>	
s LIGHT	240	83	101	77	150	7.8	160	69	1.27	75	278	77	
	28	10	23	17	30	16	50	.2.2_	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.

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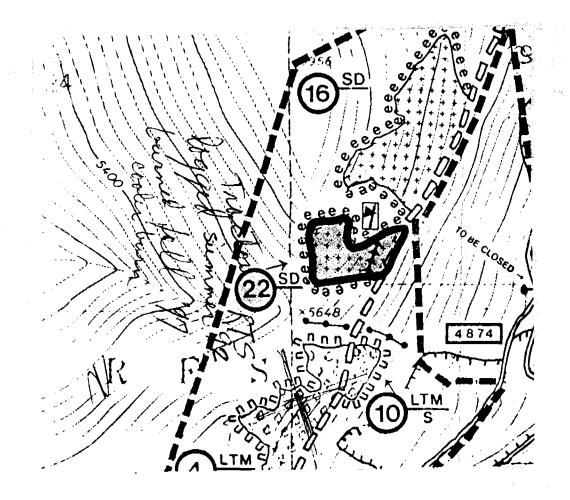
	Transect	<u> </u>	Transect	2	Transe	ect 3	Transe	ect 4	Transec			ALS
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
D HEAVY									:			
s LIGHT t		-										
u UNDISTURB												
TOTALS											ļ	
DISPLACED									<sup> </sup>		<u> </u> !	
EROSION	<b> </b>											
									<u> </u>	ļ	ļ!	
PUDDLED			<u> </u>						<u> </u>		'	
SMZ												<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.	

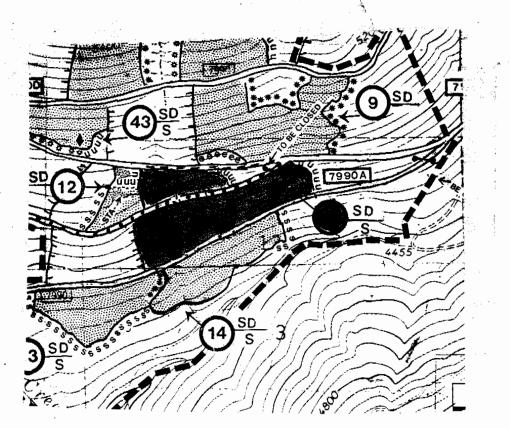
1147 Include within transact if within harvaet unit

	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.	%
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s LIGHT t												
u UNDISTURB												
b TOTALS												1
DISPLACED												
EROSION												
PUDDLED												
SMZ												
ROCK		1 4										
BURN PILES												



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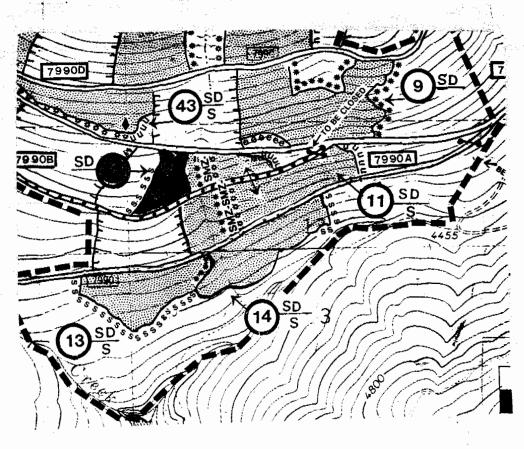
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08/11/1999 **Rexford - Brier Patch Pest Control** 126-04-155 Wolf Throw Unit 12 12604155 **KOOTENAI NATIONAL FOREST** SOIL DISTURBANCE MONITORING FORM rocess at ÌΕ CUTTING METHOD SKIDDING METHOD SERVER ractor dedicated If tractor: DISTRICT spersed 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				ALS	
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
s LIGHT												
b TOTALS												
DISPLACED												
EROSION												
PUDDLED												
SMZ												
ROCK												
BURN PILES												



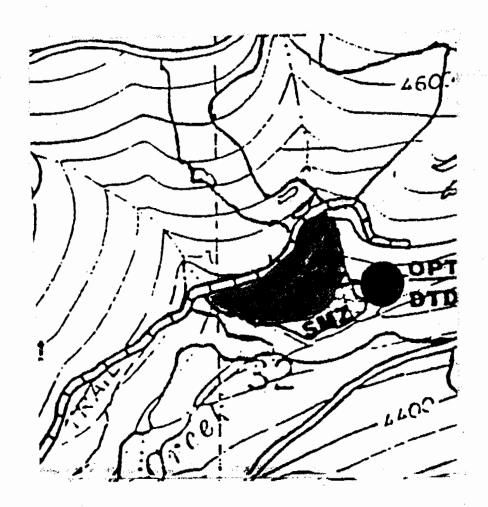
and the second 
09/13/1999 Fortine - Lost Lamb Salvage Forwarder KOOTENAI NATIONAL FOREST 35306010 Unit 3 SOIL DISTURBANCE DATA FORM 35306010 DATE Sept. 13, 1999 Lippen/processor CUTTING METHOD SKIDDING METHOD **ÖBSERVEŘ** 7, landing clun-up DISTRICT HAZARD TREATMENT  $\dot{l}$ SILVICULTURAL TREATMENT 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.

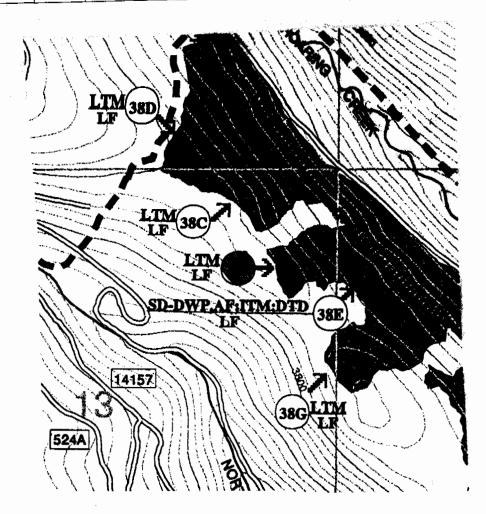
<u>SMZ</u> - include within transect if within harvest unit.

	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.

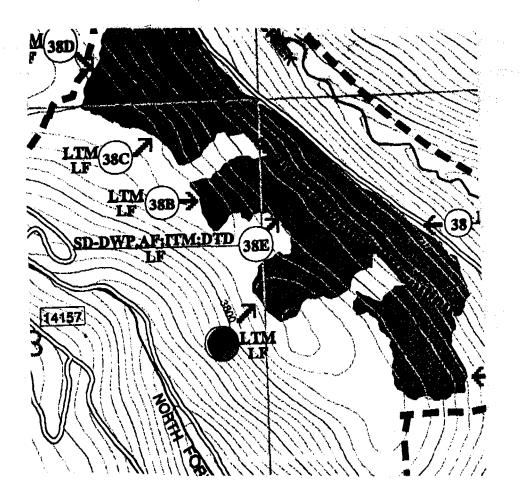
	Transust	1	Transect	2	Transect	3	Transec	t 4	Transec			TALS
	Transect Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
DHEAVY											· · · · · · · · · · · · · · · · · · ·	
s LIGHT		• <b>_</b>										
u UNDISTURB												
TOTALS				,								
DISPLACED												<u></u>
EROSION												
PUDDLED								`				
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.  $\omega H$ ... 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.

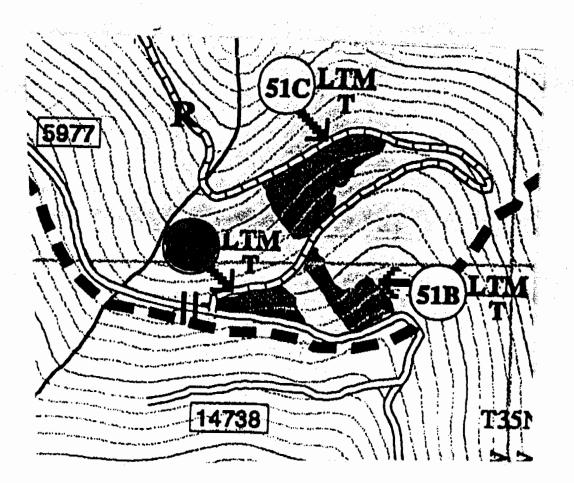
	Transect	: 1	Transec	t 2	Transe	ct 3	Transe	ct 4	Transec	t 5		ALS
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	<u>%</u>
D HEAVY i												1 The American
s LIGHT					×							
u UNDISTURB								· · · · · ·				
b TOTALS												
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PUDDLED											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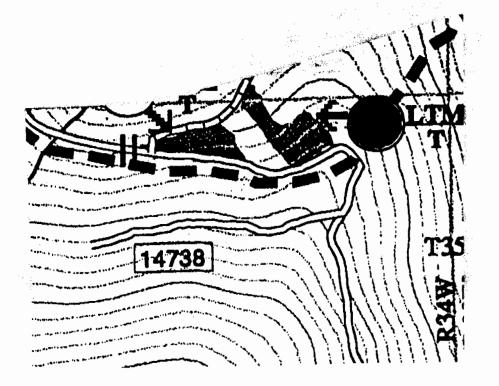


Forwarder 09/24/1999 405 03 197 Three Rivers - Roaring Meadows Salvage Unit 51B KOOTENAI NATIONAL FOREST 40503197 SOIL DISTURBANCE MONITORING FORM 9.24.99 **CUTTING METHOD** ĴΕ Lennen, Benedustidding METHOD una. SERVER dedicated dispersed Shiralf tractor: DISTRICT HAZARD TREATMENT 1.16 not SALE/S.A. 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
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DHEAVY											4	
UNDISTURB											 	
TOTALS												
DISPLACED												
EROSION												
PUDDLED												
SMZ												
ROCK												
<b>BURN PILES</b>												

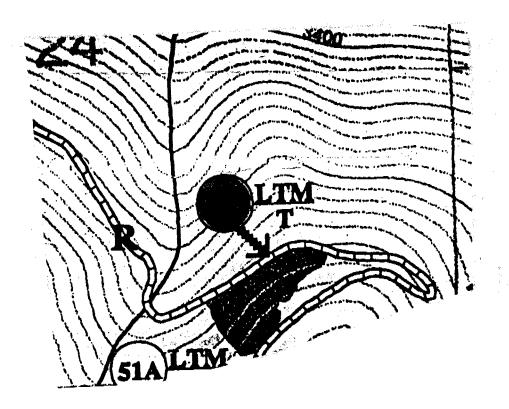


Forwarder 40503 198 09/24/1999 Three Rivers - Roaring Meadows Salvage **KOOTENAI NATIONAL FOREST** Unit 51C SOIL DISTURBANCE MONITORING FORM 40503198 ch .24,99 CUTTING METHOD Z ΤE ennen, BenedictSKIDDING METHOD **OBSERVER** ward eno Shira If tractor: dispersed dedicated DISTRICT HAZARD TREATMENT not Eleavation SALE/S.A. oan Salvi SILVICULTURAL TRMT Unit # <u>5/</u> Acres nuaga OPERATION PERIOD OC Dec. H.T.  $\omega$ , 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
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LIGHT												
UNDISTURB												
TOTALS						<b>.</b>						
DISPLACED				<b></b>						<u> </u>		
EROSION			-									
PUDDLED												
SMZ												
ROCK												
<b>BURN PILES</b>												

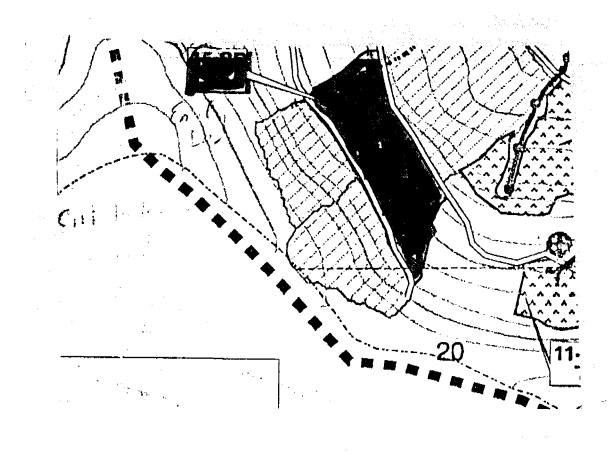
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04/27/1999 Libby - Boundary Mountain Salvage 560 06 099 KOOTENAI NATIONAL FOREST Unit 15 56006099 SOIL DISTURBANCE MONITORING FORM CUTTING METHOD 1999 dedicated dispersed If tractor: HAZARD TREATMENT Boundar SILVICULTURAL TRMT Acres/ OPERATION PERIOD 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.	• %
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s LIGHT												
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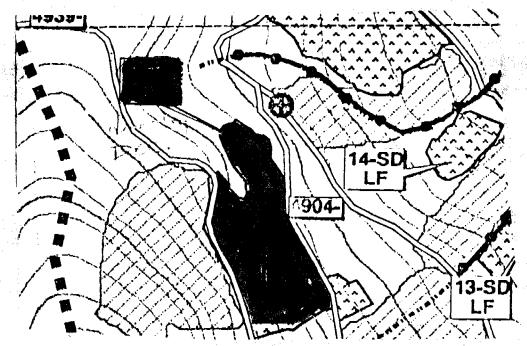
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560	06	052					finardes
			OOTENAI NAT				99 Y undary Mountain Salvage 56006052
SALE/S.A. Boundary Unit # 25 Acres H.T. Slope 20-3 Location mid + COMPACTION (Heavy)	5	remport Crawford	CUTTING ME (SKIDDING M HAZARD TRE SILVICULTU OPERATION Aspect I Elevation	ETHOD EATMENT RAL TRMT PERIOD ENE	int to farm dispersed SD/ Dec. Dec.	lenoth vahde 7 Jone 1998	dedicated
COMPACTION (Light)							
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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>		/					
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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													
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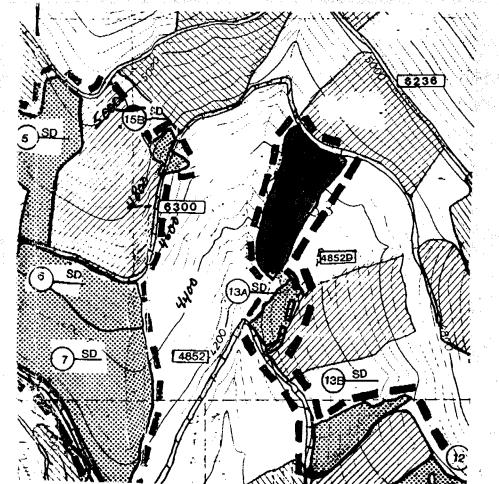
55405089 soi	KOOTENAI NATIONAL FOREST L DISTURBANCE MONITORING FORM	09/28/1999 Libby - Bristow Creek Salvage Unit 8 55405089
DATE Sept. 28, 1999 SERVER <u>Ruennen</u> STRICT <u>Libby</u> SALE/S.A. <u>Briston Ci. Salva</u> Unit # <u>B</u> Acres <u>29</u> H.T. Slope <u>20-35</u> Location <u>mid to upper</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 6300	==
	=======================================	
<u>MPACTION (Heavy)</u> - Any place where for reavily 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 mount <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.

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				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								
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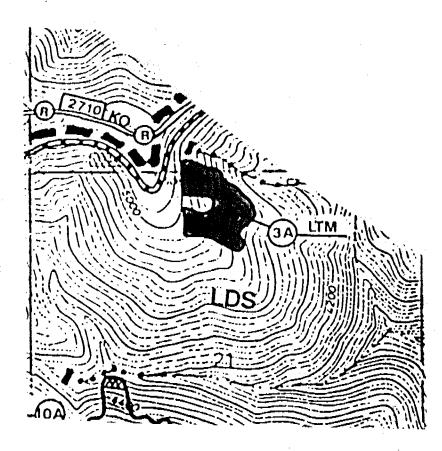
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09/27/1999 12201030 Cabinet - Red Devil Unit 3A **KOOTENAI NATIONAL FOREST** 72201030 SOIL DISTURBANCE MONITORING FORM 1999 ATE CUTTING METHOD In tor-South line. SKIDDING METHOD SERVER infle dedicated dispersed TRICT If tractor: not done SALE/S.A. 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 Hartores 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	ransact 1		fransect 1		xt 2	Transe	ansect 3		Transect 4		t 5	TOTALS	
	Pts.	%	Transec 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	,													
<b>BURN PILES</b>				· · ·										



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12201031	KOOTENAI NATIONAL FOREST SOIL DISTURBANCE MONITORING FORM09/27/1999 Cabinet - Red Devil Unit 3B 72201031
SERVER STRICT Cobinet SALE/S.A. Red David Unit # 3 B Acres H.T. WH Chin	999 <u>en/Newskidding METHOD</u> If tractor: HAZARD TREATMENT <u>Construction</u> SILVICULTURAL TRMT OPERATION PERIOD <u>OPERATION PERIOD</u> <u>CUTTING METHOD</u> <u>Silvicultural trmt</u> <u>Aug-Sept</u> 1998
Slope <u>35-50</u> Location <u>upper</u> COMPACTION (Meavy)	$\frac{\text{Aspect } }{\text{Elevation } } \frac{5E}{4500 - 4950}$
COMPACTION (Light)	
DISPLACED	
EXCAVATED SKID TRAIL	
Consistently to be	have someone staying up the operation to train the area was fairly steep also
SHAPE OF UNIT AND PATTERN	OF TRANSECT
	old rock
~	
neavily and lightly used depending <u>COMPACTION (Light)</u> - Any other UNDISTURBED - No signs of any	een mounded by machinery, also include in heavy or light compaction.

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

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