### KOOTENAI NATIONAL FOREST SOIL DISTURBANCE DATA FORM

06/28/1995 Libby - Swede McMillan Unit 29 52904046

<u>va</u>	52904046	
DATE 6 .28 . 95	CUTTING METHOD Hand	
ERVER Kuennin	SKIDDING METHOD Journaler	- rator 1
DISTRICT Libby	HAZARD TREATMENT Broadcast with	suff back
SALESWERO-McMillen	SILVICULTURAL TREATMENT LTM	
Williams C. 323.	OPERATION PERIOD April w/ Time + for	washer
529-04-04	Acres 33	3
COMPACTION(Heavy)///		
COMPACTION(Light) THE THE THE THE THE	BBBBB TH THE THE HELLER	15/125
INDICTURED SHARWARD		
UNDISTURBED THE	HI HA HAMA AHAH WA WA TANA WATANIH HAWA HI LAK KATAH WA WA WA TAN WA TAN KATANI WA MANA MANA WA WA MANA WA MANA WA	M W 174 174 174 174 174 174 174 174 174 174
BAAAAAAAAAAA		55/475
EXCAVATED SKID TRAIL		<del></del>
SMZ		· ·
COMMENTS slope 20 -35/w/p	the to 50%; Easpert; av. 3400.	ele;
Jan parale	1	
- No transect below of	all above:	<del></del> _
No surface ash layer;	13 surface rocks	······································
SHAPE OF UNIT AND PATTERN OF TRANSECT	r	
* X Large cut slave	failure at bottom of Unit	27!
, is go as safety		
		SM
COMPACTION(Heavy) - any place where i	Eut-WINI 3	
impacted, i.e., skid trails (both heat compaction related to soil moisture),	SMZ NO	
COMPACTION(Light) - any other area no		1377
SPLACED - no signs of any machine SPLACED - any place soil has been n	mounded by machinery, also include in heavy	or or
SMZ - include within transect if with		*
with clauseof it with	in narvest anic.	·

							Tota	
Disturbance.	Points	%	Points	%	Points	0/0	Points	%
Heavy	3	4	0	0			3	0
Light	15	21	125	21			140	21
Undist.	55	75	475	79			530	. 79
TOTAL	73	100	600	100			673	100
Displaced								0
,	1	1		į		•		
							•	
								•

06/28/1995 Libby - Swede McMillan Unit 31A 52904090

#### KOOTENAI NATIONAL FOREST SOIL DISTURBANCE DATA FORM

DATE 6 28 95	CUTTING METHOD Hand	
BSERVER Kuennen	SKIDDING METHOD Tractor	
DISTRICT Libby	HAZARD TREATMENT whole Tree you	ed/compress
SALE Swede-McMillan	SILVICULTURAL TREATMENT LT	M
Unit No. 3/a 529-04-090 323	OPERATION PERIOD tel-	piled landing
COMPACTION (Heavy) THE THE III)	MCNES II	
COMPACTION(Light) THE THE THE THE	HI THI THITTHING HILL THE THE THE	50/20
THE	LH UM THAT YAN UM THA YAN JAH	#### 301 \ ##### ##############################
SMZ		
NESE See T29N	estaspect. Uniton pointe 30.50 elo.	fridge;
already planted		
No surface ash layer	5% surface rock	
SHAPE OF UNIT AND PATTERN OF TRAN	SECT	

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.

 $\frac{\text{COMPACTION(Light)}}{\text{UNDISTURBED}} \text{ - any other area not included in heavy COMPACTION or UNDISTURBED.}}{\text{UNDISTURBED}} \text{ - no signs of any machinery or skidding activity.}$ 

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

i Januari II.							11 Tota	
risturbance	Points	%	Points	%	Points	%	Points	%
Heavy	19	5	0	0			19	4
Light	50	14	20	20			70	15
undist.	301	81	80	80			381	81
Jane 1		18						
TOTAL	370	100	100				470	160
Displaced								, 0
, , , , , , , , , , , , , , , , , , ,	1	I		ţ			•	

**₹** 

09/11/1995 Libby - Swede McMillan Unit 34 53101009

### KOOTENAI NATIONAL FOREST SOIL DISTURBANCE DATA FORM

	DATE 9.11.95	CUTTING METHOD Lipping	
السيار	DISERVER Kuernen	SKIDDING METHOD rulber tired	
TO SAME	DISTRICT Libby	HAZARD TREATMENTE GENTLOW piled 4 5 calped	
	SALE Swede Mc Millan	SILVICULTURAL TREATMENT LTM	
	Unit No. 34	OPERATION PERIOD Sept. 1993	
	Acres 30 323	531-01-009	
	COMPACTION (Heavy) 🗷 🖾 🖸	10/	18
	COMPACTION (Light) & B B B B B B B B B B B B B B B B B B	<u> </u>	80/280
	UNDISTURBED NO		0/270
	DISPLACED NO		
	EXCAVATED SKID TRAIL		
	SMZ		
p.3	COMMENTS 4-6" ash over fill w	Legier texture	
	Romain of a "Kettle" in NEC	orner funit - mostly flet; H.T. 6F/Libo;	
	Cheral H. T. seem to be D	F/Caru w/ PF/Phny + DF/Syal	
_	Tampalgoing to Hail builing	could have been rigged.	
	Previously horse logged	1.1. 1	
	SHAPE OF UNIT AND PATTERN OF TRANSEC	The second of th	
			:
	ني ا	1800-1	
		LTB	:
			1 4
	94 ■		
	COMPACTION(Heavy) - any place where	4769B	
	impacted, i.e., skid trails (both he compaction related to soil moisture.	10 ATOSE	
	COMPACTION(Light) - any other area : UNDISTURBED - no signs of any machin	the included in heavy COMPACTION or UNDISTURBED.	
er of the	DISPLACED - any place soil has been light compaction.	mounded by machinery, also include in heavy or	
- 3	o		

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

5/93

	·						Tota	1
Disturbance	Points	0/0	Points	%	Points	0/0	Points	07
Heavy	75	. 7	18	3			28	4
Light Undist.	80	53	284	50			364	50
Undist.	60	40	270	47			330	46
IOTAL	150	100	572	100			722	100
Displaced								0
•	•	1		ı		•		

-71

06/28/1995 Libby - Swede McMillan Unit 46 52904057

### KOOTENAI NATIONAL FOREST SOIL DISTURBANCE DATA FORM

52904057	to the second	
DATE 6,28.95	CUTTING METHOD Hand	
ERVER Kulmien	SKIDDING METHOD Forwarder	-
DISTRICT Libby	HAZARD TREATMENT broadcost / win	enoto fueline
	1, 4	1
SALE <u>Swede McMillan</u> Unit No. 46	SILVICULTURAL TREATMENT	
WilliamsCr. 322	OPERATION PERIOD Larry April w/ time	s Howarder
COMPACTION(Heavy))/////	TIMES I	3/4
CONFACTION(Reavy)		
COMPACTION(Light)	<u> </u>	35/20
		,
UNDISTURBED // THE SECOND STATE OF SECOND STATE OF SECOND	BABBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB	127/60
		4/6
DISPLACED ////		
EXCAVATED SKID TRAIL		
SMZ		
COMMENTS IN So NW aspect;	Surface loes lanes neses	1
Except for the compact	in displacement from prev	ious
Loughing five sense status	Sug goine:	
SHAPE OF UNIT AND PATTERN OF TRANSEC	T	
Three old ground skilling o	+ Leavy compaction	unit
resulted in desplacement.	+ Leavy Compaction	
Elev 3700	THE REAL PROPERTY.	
ko∦ e rezeron erroren e Oranoa		
-		4768G
<pre>COMPACTION(Heavy) - any place where impacted, i.e., skid trails (both heavy)</pre>	avily and light	
compaction related to soil moisture)	, landings, and	
COMPACTION(Light) - any other area no NOTION - no signs of any machine	ot included in heavy COMPACTION or UNDIST	URBED.
SPLACED - any place soil has been i	mounded by machinery, also include in hea	vy or
right compaction.  SMZ - include within transect if with	hin harvest unit.	5/93

							Tota	1
Disturbance.	Points	%	Points	%	Points	0/0	Points	010
Heavy	-3	2	4	5			7	3
Light	3.5	21	20	24			55	22
Undist.	127	77	60	71			187	75
TOTAL	165	100	84	100			249	100
Displaced	4	2	6	7	-		10	4
1	1	1		ı		1		

07/18/1995

# 07/18/1995 Libby - West Pipe Unit 17B 51203045 KOOTENAI NATIONAL FOREST SOIL DISTURBANCE DATA FORM

DATE 7:18:95	CUTTING METHOD Hand
DERVER Kuennen	SKIDDING METHOD Tractor, rubber-tired
DISTRICT Libby	HAZARD TREATMENT done pele
SALE West Pipe 512-03	3-045 SILVICULTURAL TREATMENT Seed tree cut
Unit No. //B	OPERATION PERIOD Late 1993 Oct. 93 piled-Sept Bathman Kenetty De
Tsuket/Climai 352 w/s	Bothman Kenetty D.
COMPACTION (Heavy)	ulivask 5/5
SOMPACTION(Light D 🗷 🖂 🖂	
MAN MANAGAMA	
NDISTURBED N N N	30/4
ISPLACED <b>X</b> X	20/6
XCAVATED SKID TRAIL	
Conspileremnants & 8- COMMENTS Burning has be	encompletel. Mast of gol; disturbed w/
Conspilerement & B- COMMENTS Burning has be Sailling + pilling m Job of Staplaghent has Ash 112-16 " deep. Ver	encompleted. Most of got, disturbed w/ ostlythru piling apphations. o decipled. The Good crop of bull their or good growing site!
Poperpileremnants & 8 - COMMENTS Burning has be Spilling + pilling - m Lots of traplacephent ha Ash 112-16 " deep. Ver	encompletel. Mast of gel, disturbed w/ astly thru piling a petations of bull this is decipled to Good crop of bull this in good growing site!
Poperpileremnants & A - COMMENTS Burning has be Spilling + pilling m Lots of Higher that Ash 112-16 " deep. Ver	encompletel. Mast of gel, disturbed w/ astly thru piling appliations of bull this in good growing site!
Conserptionemnants & A - COMMENTS Burning has be Spilling + pilling m Lots of Highest ha Ash 112-16" deep. Ver	en completel. Mast of of disturbed w/ astly thru piling applications of securled. The Egod crap of bull them of good growing site!
	en completel. Mast of gf., disturbed w/ astly thru piling exchanges and crop of built this of good growing site!
Conserptionemnant & A- COMMENTS Burning has be Shifting + pilling - m Lots of the playshest ha Ash 112-16 " deep. Ver  SHAPE OF UNIT AND PATTERN OF TRA  Unit NW side of fram	en completel. Mast of gf., disturbed w/ astly thru piling exchanges and crop of built this of good growing site!
Conserptionemnant & R- COMMENTS Burning has be Shifting + pilling - m Lots of the place that the Ash 112-16 " deep. Ver  SHAPE OF UNIT AND PATTERN OF TRA  Unit NW side of fram	en completel. Mast of gf., disturbed w/ astly thru piling exchanges and crop of built this of good growing site!
Unit NW side of draw	en completel. Mast of gf., disturbed w/ astly thru piling exchanges and crop of built this of good growing site!
Unit NW side of draw	en completel. Mast of gf., disturbed w/ astly thru piling exchanges and crop of built this of good growing site!
	en completel. Mast of gf., disturbed w/ astly thru piling exchanges and crop of built this of good growing site!
Unit NW side of draw	en completel. Mast of gf., disturbed w/ astly thru piling exchanges and crop of built this of good growing site!
Unit NW side of draw	Insect CC
COMPACTION (Heavy) - any place whimpacted, i.e., skid trails (bot	ere future the heavily
COMPACTION (Heavy) - any place whimpacted, i.e., skid trails (bot compaction related to soil moist COMPACTION (Light) - any other ar	and any plant of the second control of the s
COMPACTION (Heavy) - any place whimpacted, i.e., skid trails (bottompaction related to soil moist COMPACTION (Light) - any other ar INDISTURBED - no signs of any ma	and any plant of the second control of the s

	•	_				1	Tota	
Disturbance	Points	%	Points	%	Points	0/0	Points	%
Disturbance Heavy Light Undist.	5	3	5	3			10	⊰
Light	110	76	105	70			215	73
Undist.	30	21	~ 40	27	<u> </u>		70	24
		·						
TOTAL	145	100	150	100			295	100
Displaced	20	14	60	40			80	27
/	i	1	·	Į.		<b>1</b>		-

521-114

07/18/1995 Libby - West Pipe Unit 23 51202064

## KOOTENAI NATIONAL FOREST SOIL DISTURBANCE DATA FORM

DATE 7.18.95	CUTTING METHOD Clipper
ERVER Kuennen	SKIDDING METHOD Tractor (winter?
DISTRICT Libby	HAZARD TREATMENT Jack pot
SALE West Pipe 5/2-02-064	SILVICULTURAL TREATMENT LTM
Unit No. 23	OPERATION PERIOD Jan. 1994 2/92
COMPACTION (Heavy)	
COMPACTION(Light)	<u>5</u> 3
UNDISTURBED XXXXX	NAMMANAME 115
DISPLACED	, 3
EXCAVATED SKID TRATL	
SMZ Dry draw. No shidding	in draw, Logo se monedo
COMMENTS Burning has Gen con	
SHAPE OF UNIT AND PATTERN OF TRANSECT	

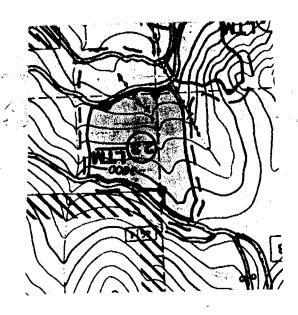
COMPACTION(Heavy) - any place where future vegetative growth will be significantly impacted, i.e., skid trails (both heavily and lightly used depending on amount of compaction related to soil moisture), landings, and other impacted areas.

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 right compaction.

							Tota	1
Tistur banco	Points	%	Points	%/0	Points	0/0_	Points	0/0_
Pisturbanco Heavy Light Undist.	7	3						
Light	53	23_						
Undist.	175	74						
TOTAL	235	100						
Displaced	3	1	1		<u>                                     </u>			·
1	1	l	•	į		<b>*</b> 5.		



Libby - Prospect Parmenter SOIL DISTURBANCE DATA FORM Unit 20 52401104 CUTTING METHOD clipper / hand DATE SKIDDING METHOD Rubber BSERVER HAZARD TREATMENT DISTRICT SILVICULTURAL TREATMENT SALE OPERATION PERIOD Early Feb. 1994 Acres 524-01-104 8/5/0 COMPACTION (Heavy) <u>6</u>2/60/30 110/135/120 DISPLACED EXCAVATED SKID TRAIL SMZ 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 UNDISTO 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

KOOTENAI NATIONAL FOREST

09/11/1995

_							1 Tota	1 1
	Points	%	Points	%	Points	0/0	Points	0
Heavy Light	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.	<u> </u>		4					0
,	•	1				•		ł

09/26/1995 Libby - Barnum Unit 2 64401002

## KOOTENAI NATIONAL FOREST SOIL DISTURBANCE DATA FORM

DATE 9,26.95	CUTTING METHOD Chipped
BSERVER Kuennen	SKIDDING METHOD Tractor (Shidded
DISTRICT LIBBY 594-01-002	HAZARD TREATMENT Broadcast burn '96 (5 1/2)
SALE <u>Ranum</u> (644-01-002) Unit No. 2 39.4	SILVICULTURAL TREATMENT Species Des.
Unit No. 2 39.4°	OPERATION PERIOD August 195
SAF/Xete/Voge w/Vese	
COMPACTION(Heavy)	<i>'</i>
COMPACTION(Light)	NABABAAAAAAAAAAA 170/90
UNDISTURBED Ø Ø Ø Ø Ø Ø Ø Ø	MMMMMM 40/110
	10/10
DISPLACED	
EXCAVATED SKID TRAIL	
SMZ	
COMMENTS free was affected,	but not extensively. Lots of fairly angular
- 15-20 / surface rocklafter	shilding 1DE - of
- Onorthelly /3/0/ unit 30-40	5% LPP/w/ L+DFlaft
- 60 - 25% rock in soil.	The state of the s
- Nd Very pawalry + rocky	
SHAPE OF UNIT AND PATTERN OF TRANSECT	
Two stands involved; wil	A STATE OF THE STA
al to tend be	en De la Companya de
con manera	
©	322
	5800
COMPACTION(Heavy) - any place where f	Sutur Ospi
impacted, i.e., skid trails (both heat compaction related to soil moisture),	avily
COMPACTION(Light) - any other area no UNDISTURBED - no signs of any machine	ot it
DISPLACED - any place soil has been m	nounded by machinery, also include in heavy or
light compaction.	nin harvost unit

and the same of th							Tota	
vistur banco	Points	%	Points	%/0	Points	0/0	Points	%
Heavy	0	0	0	0			0	0
Light	170	81	90	45			260	63
Undist.	40	19	Page 110	55			150	37
		(4)						
TOTAL	210	100	200	100			410	100
Displaced	/0	5	10	5	<u> </u>		20	5
y '	•	1		ŀ		• • •		

09/26/1995 Libby - Barnum Unit 4 59401003 64401003

## KOOTENAI NATIONAL FOREST SOIL DISTURBANCE DATA FORM

DATE 9, 26, 95	CUTTING METHOD Lugger	
ERVER Kusune	SKIDDING METHOD Tracto	
DISTRICT Libby 59401003	HAZARD TREATMENT Broadcast burn	· 96
SALE Bernum 644-01-603	SILVICULTURAL TREATMENT SD	
SAT/Mefe/Xete or Vasc.	OPERATION PERIOD August/ Sept Dupersed shed	1. 195
COMPACTION (Heavy) NN		30/30
COMPACTION (Light) A A A A A A A A A A A A A A A A A A A		
UNDISTURBED DE D	N N N N N N N N N N N N N N N N N N N	300/25 90  110
DISPLACED N N N N N N	1/	70/0
EXCAVATED SKID TRAIL		
SMZ		
- Long shike los of turn- alder seathered throughout;	Jon snow Jenough for	1n
- Fulling was ship mail		
	32	SDA
SHAPE OF UNIT AND PATTERN OF TRANSECT	103	
· · · · · · · · · · · · · · · · · · ·	322	
		58
	TAGE TO AGE	
COMPACTION(Heavy) - any place where fu	itur.	6090
impacted, i.e., skid trails (both hear compaction related to soil moisture), COMPACTION(Light) - any other area not	land	
NDISTURBED - no signs of any machine	ry or skidding activity.	
light compaction.	ounded by machinery, also include in hea	
SMZ - include within transect if with	in harvest unit.	5/93

							Tota	
istur bance	Points	0/0	Points	%/0	Points	0/0	Points	9/0
Heavy	30	7	30	8			60	7
Light	300	72	250	64			550	68
Undist.	90	21	° 110	28			200	25_
TOTAL	420	100	390	100			810	100
								<u>.</u>
Displaced	70	17	0	0	11		70	9
1	i	1		ţ				

07/10/1995 100 01 100 1100 1101 Rexford KOOTENAI NATIONAL FOREST - Lawrence Mountain SOIL DISTURBANCE DATA FORM 13001103 CUTTING METHOD DATE en/Woodger SKIDDING METHOD HAZARD TREATMENT SILVICULTURAL TREATMENT ( COMPACTION (Heavy) COMPACTION(Light) UNDISTURBED DISPLACED EXCAVATED SKID TRAIL SMZ 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.

### KOOTENAI NATIONAL FOREST SOIL DISTURBANCE DATA FORM

07/18/1995 Libby - Sheldon Doak Unit 1 & 12 (20)

ATE 7.18.95	CUTTING METHOD 1
OBSERVER Kuennen	SKIDDING METHOD Tractor
DISTRICT Libby	HAZARD TREATMENT piling
SALE Sheldon Doah	SILVICULTURAL TREATMENT
Unit No. 1412 (20)	OPERATION PERIOD
COMPLETION (No serve)	
COMPACTION(Heavy)	(2)
COMPACTION(Light) lugger/	275 chipper 1275
UNDISTURBED Writer 9	1: '95 Grapfle pile '95 hum '96 rum '96 14-95 mater 94-95
DISPLACED	
EXCAVATED SKID TRAIL	•
SMZ	
OMMENTS Unit I looks! Has a	tready been piled! Occasionals
Unit 20 shilled uphill	Gussive displacement
	<u></u>
SHAPE OF UNIT AND PATTERN OF TRANSEC	OT .

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.

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.