

KOOTENAI NATIONAL FOREST
SOIL DISTURBANCE DATA FORM

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

DATE 6-28-95
SERVER Kuennen
DISTRICT Libby
SALE Swede-McMillan
Unit No. 29

CUTTING METHOD Hand
SKIDDING METHOD forwarder
HAZARD TREATMENT Broadcast *esp. w/ fuel line w/ pull back*
SILVICULTURAL TREATMENT LTM
OPERATION PERIOD April w/ Timber + forwarder

Williams Cr. 323
529-04-046 Acres 29
COMPACTION (Heavy) /// 3

COMPACTION (Light) ||||| 15/125

UNDISTURBED swamp ||||| 55/475
DISPLACED ||

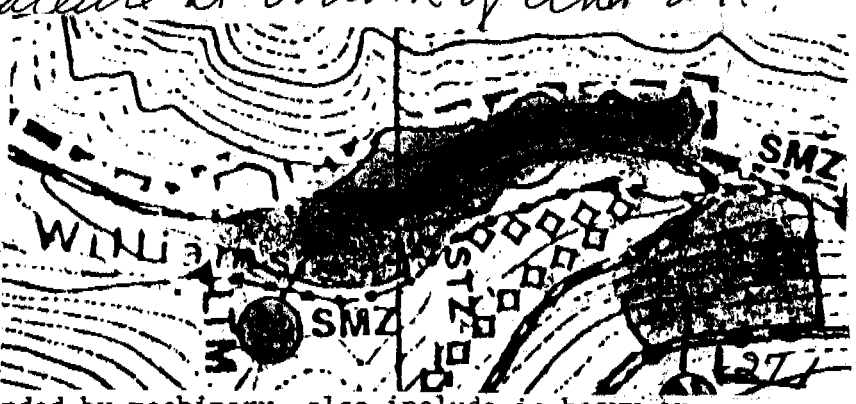
EXCAVATED SKID TRAIL

SMZ

COMMENTS slope 20-35% w/ pitches to 50%; E aspect; av. 3400' ele;
very narrow unit that parallels the road -- 100 yds wide to 50 yds
No transect below rd. all above!
No surface ash layer; 1% surface rocks

SHAPE OF UNIT AND PATTERN OF TRANSECT

** Large cut slope failure at bottom of Unit 27!!*



COMPACTION (Heavy) - any place where fut-
impacted, i.e., skid trails (both heavy
compaction related to soil moisture), 1
COMPACTION (Light) - any other area not
UNDISTURBED - no signs of any machinery
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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DATE 6.28.95

CUTTING METHOD Hand

OBSERVER Kuennen

SKIDDING METHOD Tractor

DISTRICT Libby

HAZARD TREATMENT whole-tree yard/compress

SALE Swede-McMillan
Unit No. 31a

SILVICULTURAL TREATMENT LTM

529-04-090 323

OPERATION PERIOD Feb piled landings
Acres 17 spring

COMPACTION(Heavy) ||||| 19

COMPACTION(Light) ||||| 50/20

UNDISTURBED ||||| 301/80
DISPLACED

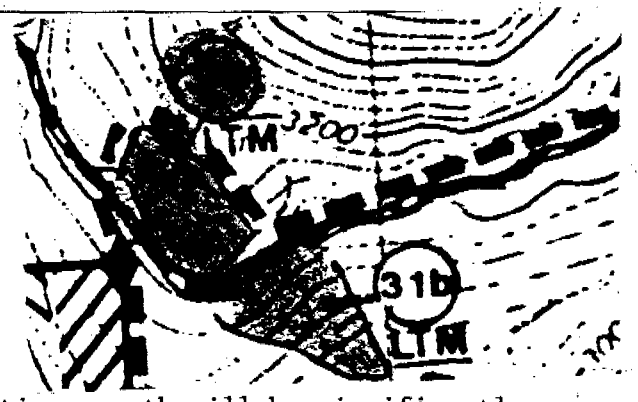
EXCAVATED SKID TRAIL

SMZ

COMMENTS southeast to southwest aspect. Unit on point of ridge;
VE SE Sec 6 T29N 30.50' elev.

already planted
No surface ash layer 5% surface rock

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

KOOTENAI NATIONAL FOREST
SOIL DISTURBANCE DATA FORM

DATE 6.28.95

CUTTING METHOD Hand

SERVER Kuennen

SKIDDING METHOD Forwarder

DISTRICT Libby

HAZARD TREATMENT broadcast / excavator fuel line w/ pull back

SALE Swede-McMillan
Unit No. 46

SILVICULTURAL TREATMENT LTM

Williams Cr. 322

OPERATION PERIOD early April w/ tractors & forwarder
Acres 5

COMPACTION (Heavy) |||||

3/4

COMPACTION (Light) |||||

35/20

UNDISTURBED |||||

127/60

DISPLACED |||||

4/6

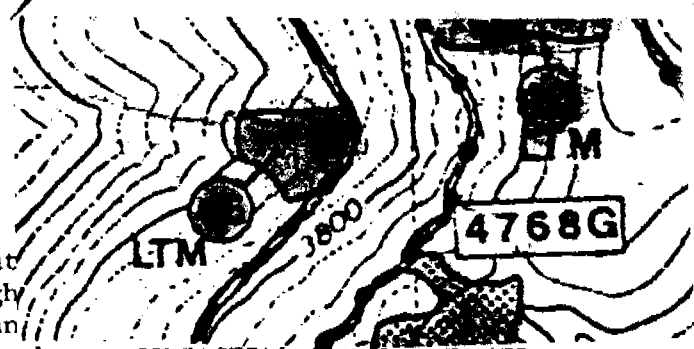
EXCAVATED SKID TRAIL

SMZ

COMMENTS W to NW aspect; surface loess layer present. Except for the compaction/displacement from previous logging the unit looks very good.

SHAPE OF UNIT AND PATTERN OF TRANSECT

Three old ground skidding corridors from the 20s cross the unit; resulted in displacement & heavy compaction
Elev 3700



- COMPACTION (Heavy) - any place where future vegetation impacted, i.e., skid trails (both heavily and light compaction related to soil moisture), landings, and
- COMPACTION (Light) - any other area not included in heavy COMPACTION or UNDISTURBED.
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Disturbance							Total	
	Points	%	Points	%	Points	%	Points	%
Heavy	3	2	4	5			7	3
Light	35	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

Disturbance							Total	
	Points	%	Points	%	Points	%	Points	%
Heavy	5	3	5	3			10	3
Light	110	76	105	70			215	73
Undist.	30	21	40	27			70	24
TOTAL	145	100	150	100			295	100
Displaced	20	14	60	40			80	27

KOOTENAI NATIONAL FOREST
SOIL DISTURBANCE DATA FORM

DATE 7.18.95

CUTTING METHOD Clipper

SERVER Kuennen

SKIDDING METHOD Tractor (winter?)

DISTRICT Libby

HAZARD TREATMENT Jackpot

SALE West Pipe 512-02-064
Unit No. 23

SILVICULTURAL TREATMENT LTM

OPERATION PERIOD Jan. 1994 2/92

43A

COMPACTION(Heavy) 7

COMPACTION(Light) 53

UNDISTURBED 175

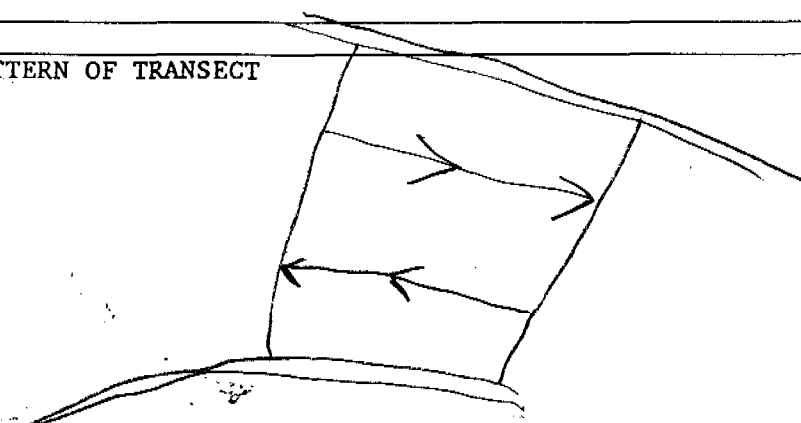
DISPLACED 3

EXCAVATED SKID TRAIL

SMZ Dry draw. No skidding in draw. Logs removed.

COMMENTS: Burning has been completed.

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.

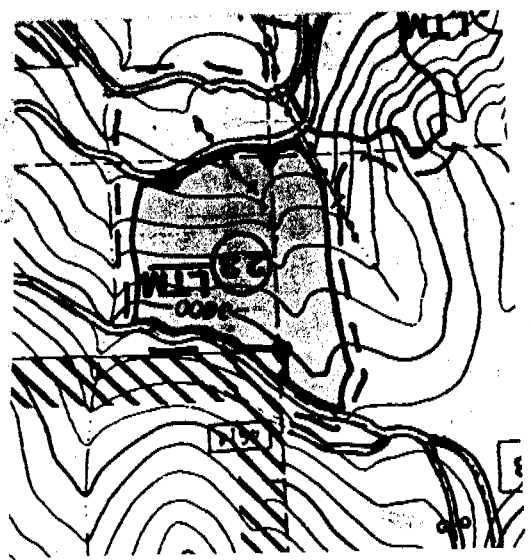
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Disturbance							Total	
	Points	%	Points	%	Points	%	Points	%
Heavy	7	3						
Light	53	23						
Undist.	175	74						
TOTAL	235	100						
Displaced	3	1						



Disturbance							Total	
	Points	%	Points	%	Points	%	Points	%
Heavy	0	0	0	0			0	0
Light	170	81	90	45			260	63
Undist.	40	19	110	55			150	37
TOTAL	210	100	200	100			410	100
Displaced	10	5	10	5			20	5

Disturbance							Total	
	Points	%	Points	%	Points	%	Points	%
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
Displaced	70	17	0	0			70	9

07/10/1995
Rexford
- Lawrence Mountain
Unit 6
13001103

150 01 100
KOOTENAI NATIONAL FOREST
SOIL DISTURBANCE DATA FORM

DATE 7.10.95 CUTTING METHOD feller/processor
OBSERVER Kuennen/Woodger SKIDDING METHOD forwarder
DISTRICT Rexford HAZARD TREATMENT BB 1997
SALE Lawrence Mt SILVICULTURAL TREATMENT CC
Unit No. 6 Acres: 9 OPERATION PERIOD Summer 1995
H.T. SAF/Mefe Ele: 5300-5500
Aspect N Walk-Through
COMPACTION (Heavy)

COMPACTION (Light)

UNDISTURBED

DISPLACED

EXCAVATED SKID TRAIL

SMZ

COMMENTS Unit looks very good. Operating at higher moisture (by agreement w/ soil scientist). The key is operating on organic mat.

SHAPE OF UNIT AND PATTERN OF TRANSECT

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1-517

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

51404013

KOOTENAI NATIONAL FOREST
SOIL DISTURBANCE DATA FORM

DATE 7.18.95
OBSERVER Kuennen
DISTRICT Libby
SALE Sheldon Doak
Unit No. 1 & 12 (20)

CUTTING METHOD _____
SKIDDING METHOD Tractor
HAZARD TREATMENT piling
SILVICULTURAL TREATMENT _____
OPERATION PERIOD _____

Wack through

COMPACTION (Heavy) _____

COMPACTION (Light) _____

UNDISTURBED _____

DISPLACED _____

EXCAVATED SKID TRAIL _____

SMZ _____

COMMENTS Unit 1 looks ^{ok}! Has already been piled! Occasionally displacement somewhat aggressive.
Unit 20 skidded uphill excessive displacement

SHAPE OF UNIT AND PATTERN OF TRANSECT

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08/31/1995
 Libby - Prospect Parmenter
 Unit 9, 13 & 17
 52801021 52401009 52401056

KOOTENAI NATIONAL FOREST 17-52401056 79 Hecres
 SOIL DISTURBANCE DATA FORM

DATE 8-31-95

CUTTING METHOD hand

OBSERVER Kenneth Crawford

SKIDDING METHOD _____

DISTRICT Libby

HAZARD TREATMENT _____

SALE Prospect Parmenter
 Unit No. 9 + 13 + 17

SILVICULTURAL TREATMENT seedcut / CC w/ reserves
SW prep cut

OPERATION PERIOD _____

Walk through

COMPACTION (Heavy) (9) (13) (17)

COMPACTION (Light) Elc-2900 As-E Elc-3000 As-N Elc-3500 As-S
HT 520 9% HT 531 29% HT 531 39%

UNDISTURBED ST Seed cut CC w/ reserves SW Prep cut
Cripple pits 195 logging
burn 196

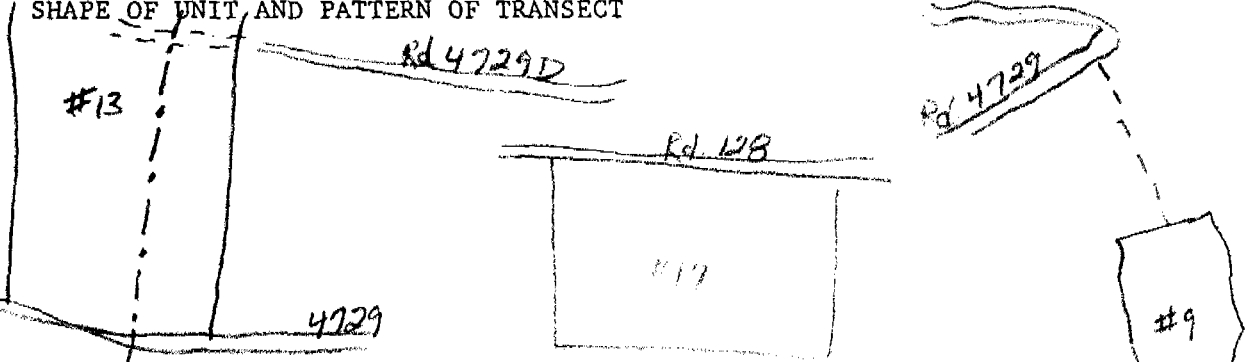
DISPLACED skidder RTS

EXCAVATED SKID TRAIL _____

SMZ _____

COMMENTS Temp. Rd into Unit 9 could use little more recontouring. Unit 9
looks very good. Tractor skidded
Unit 13 looks good. Tractor skidded. Occasionally little bit extra
displacement.
Unit 17 - cable skidded - some gouging in cable corridor.
Unit looks very good
Rt. 128 needs some surface drainage corrections.

SHAPE OF UNIT AND PATTERN OF TRANSECT



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