

KOOTENAI NATIONAL FOREST SOIL DISTURBANCE MONITORING FORM

10803055

DATE 9.26.02 CUTTING METHOD clipper/hand
 OBSERVER Kuennen/Kindel/Tres SKIDDING METHOD Forwarder
 DISTRICT Rexford If tractor: dispersed dedicated X
 SALE/S.A. Upper Boulder HAZARD TREATMENT B/B - spring 2001
 Unit # 6 Acres 39 SILVICULTURAL TRMT LTM
 H.T. SAF/Hsi/Vasc OPERATION PERIOD Sept + Oct '01
 Slope 5-30 Aspect | S (SE -> SW)
 Location upper Elevation | 5600

COMPACTION (Heavy) 10 8 9
 PAST ACTIVITY 61 69 38
 COMPACTION (Light)
 UNDISTURBED 119 111
 DISPLACED 2 1 4
 EXCAVATED SKID TRAIL
 SMZ/ROCK 0 2 3

COMMENTS (Include soil, geology, organic debris-large & small, erosion, road drainage, other pertinent info)

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/ROCK/BLIRM PILE - Include within transect if within harvest unit

10803057

KOOTENAI NATIONAL FOREST
 SOIL DISTURBANCE MONITORING FORM

DATE 9.26.02 CUTTING METHOD digger/hand
 OBSERVER Kuennen/Kindel/Tres SKIDDING METHOD RTS
 DISTRICT Rexford If tractor: dispersed dedicated X
 SALE/S.A. Upper Boulder HAZARD TREATMENT unburn/BB fall 2002
 Unit # 811 Acres 39 SILVICULTURAL TRMT LTM
 H.T. SAF/AST/Vasc OPERATION PERIOD Sept - Oct ?
 Slope 10-30 Aspect South
 Location Upper 45 Elevation 5400-5600
 COMPACTION (Heavy) X

PAST ACTIVITY
 COMPACTION (Light) X
 UNDISTURBED X
 DISPLACED X
 EXCAVATED SKID TRAIL _____
 SMZ/ROCK LSR

COMMENTS (Include soil, geology, organic debris-large & small, erosion, road drainage, other pertinent info)

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/ROCK/BIURN PILE - Include within transect if within harvest unit.

TRANSECT SUMMARY FORM

	Transect 1		Transect 2		Transect 3		Transect 4		Transect 5		TOTALS		
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	
D i s t u r b	HEAVY	30	6	15	4	17	8	46	7	6	6		
	LIGHT	245	50	169	50	76	34	364	53	50	46		
	UNDISTURB	205	42	138	41	127	56	280	40	50	46		
	PAST ACTIVITY	8	2	17	5	5	2	2	41	3	2		
	TOTALS	488	100	337	100	225	100	692	100	109	100		
	DISPLACED	5	1	3	1	3	1	-	-	-	-		
	EROSION												
	PUDDLED												
	SMZ					70	31						
	ROCK												
	BURN PILES												

TRANSECT SUMMARY FORM

	Transect 1		Transect 2		Transect 3		Transect 4		Transect 5		TOTALS	
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
D i s t u r b	HEAVY	40	6								154	6
	LIGHT	360	50								1262	49
	UNDISTURB	300	42								1100	43
	PAST ACTIVITY	12	2								47	2
	TOTALS	712	100								2563	100
	DISPLACED	-	-								9	41
	EROSION											
	PUDDLED											
	SMZ										70	3
	ROCK											
	BURN PILES											

Combining current + past detrimental disturbance equals a total of 8% for this activity area!

32006064
KOOTENAI NATIONAL FOREST
SOIL DISTURBANCE MONITORING FORM

DATE 7.26.02 CUTTING METHOD clipper
OBSERVER Kuennen/Gott SKIDDING METHOD RTS
DISTRICT Fortine If tractor: dispersed dedicated
SALE/S.A. Timber Lake HAZARD TREATMENT understory burn spring '02
Unit # 1 Acres 38 SILVICULTURAL TRMT CTM Improvements
H.T. 25D OPERATION PERIOD summer '01
Slope 5-~~25~~35 Aspect I
Location lower 1 2 Elevation I 3 1
*COMPACTION (Heavy) [X][X][X] : [X][X][X] : [X][X][X] : [X][X][X]

PAST ACTIVITY
*COMPACTION (Light) [X][X][X][X][X][X][X][X] : [X][X][X][X][X][X][X][X] : [X][X][X][X][X][X][X][X]
[X][X][X][X][X][X][X][X] : 4/32

*UNDISTURBED [X][X][X][X][X][X][X][X] : [X][X][X][X][X][X][X][X] : [X][X][X][X][X][X][X][X]
[X][X][X][X][X][X][X][X] : 4/74

DISPLACED [X][X][X][X][X][X][X][X] : [X][X][X][X][X][X][X][X]

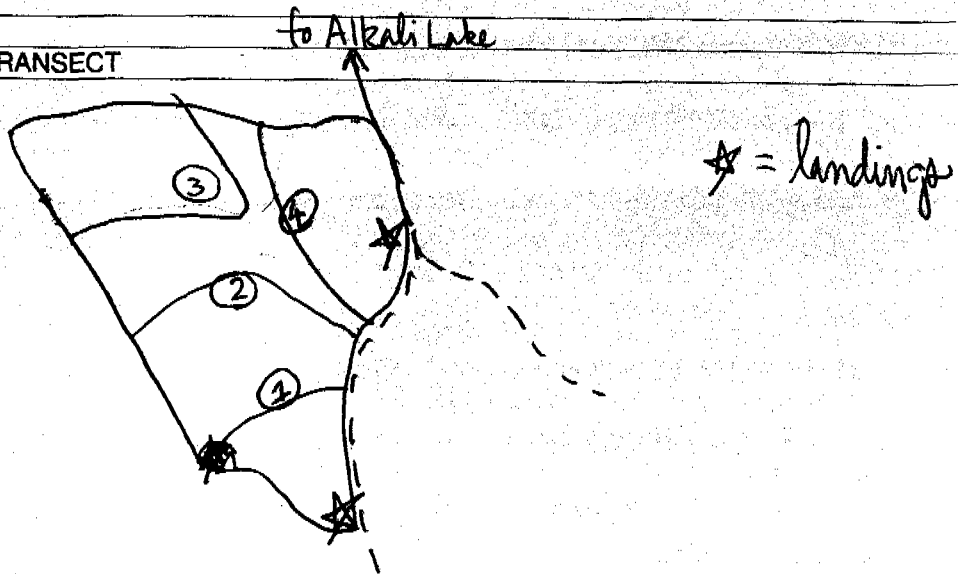
EXCAVATED SKID TRAIL [X][X][X][X][X][X][X][X]

SMZ/ROCK

COMMENTS (Include soil, geology, organic debris-large & small, erosion, road drainage, other pertinent info)

Doser line fireline - unacceptably wide, displaced soil.
Topography influenced skid pattern - transects 1 to skids.
Clipper tracks, esp on slopes caused some cutting & displacement. Worst during ops?

SHAPE OF UNIT AND PATTERN OF TRANSECT



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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/ROCK/BURN PII F - Include within transect if within harvest unit

KOOTENAI NATIONAL FOREST
SOIL DISTURBANCE MONITORING FORM

DATE 7.26.02 CUTTING METHOD Clipper
OBSERVER Paulsen/Goff SKIDDING METHOD 11 RFS
DISTRICT Fortine If tractor: dispersed dedicated
SALE/S.A. Timber Lake HAZARD TREATMENT BB spring '02
Unit # 7 Acres 20 SILVICULTURAL TRMT LTM SW Seed/Reserve
H.T. 250 OPERATION PERIOD summer '01
Slope 5 (25) 40 Aspect NE
Location lower 30 Elevation 3150 - 3300
COMPACTION (Heavy) [X][X][X][X][X][X][X][X][X][X]

PAST ACTIVITY 127 52
COMPACTION (Light) [X][X][X][X][X][X][X][X][X][X][X][X][X][X][X][X]

UNDISTURBED [X][X][X][X][X][X][X][X][X][X][X][X][X][X][X][X]

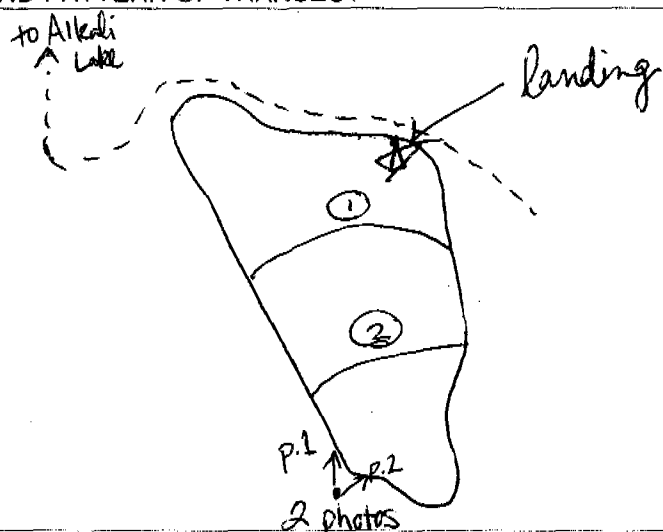
DISPLACED [X][X][X][X]

EXCAVATED SKID TRAIL

SMZ (ROCK) [X][X]

COMMENTS (Include soil, geology, organic debris-large & small, erosion, road drainage, other pertinent info)
Glacial till w/out less.
Excessively wide & disturbed fireline - dozer line? Excavator bucket width is sufficient!
Steep-sided ridge underlain by BRX in S-central portion of unit.
Clipper - hand felled on steep portions. No rutted tracks noted!

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/ROCK/BIURN PII F - Include within transect if within harvest unit

TRANSECT SUMMARY FORM

		Transect 1		Transect 2		Transect 3		Transect 4		Transect 5		TOTALS	
		Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
Disturbance	HEAVY	17	9									17	9
	LIGHT	89	45									89	45
	UNDISTURB	85	43									85	43
	PAST ACTIVITY	27	3									7	3
	TOTALS	198	100									198	100
	DISPLACED	20	10									20	10
	EROSION												
	PUDDLED												
	SMZ												
	ROCK												
BURN PILES													

Combining current + past detrimental disturbances equals a total of 12% for this activity area.

KOOTENAI NATIONAL FOREST
SOIL DISTURBANCE MONITORING FORM

DATE 7.26.02 CUTTING METHOD Clipper
OBSERVER Ruennen/Cott SKIDDING METHOD RTS
DISTRICT Fortine If tractor: dispersed dedicated X
SALE/S.A. Roberts Mt. / HAZARD TREATMENT understory burn spring '02
Unit # 5+10 Acres 23, 7 SILVICULTURAL TRMT 5-LTM, 10-CTM
H.T. 212 OPERATION PERIOD summer '01
Slope 2-8 Aspect E
Location lower Elevation II 3200

COMPACTION (Heavy) [grid with symbols and circled numbers 58, 50, 34, 33]

PAST ACTIVITY
COMPACTION (Light) [grid with symbols and circled numbers 10, 184, 106]

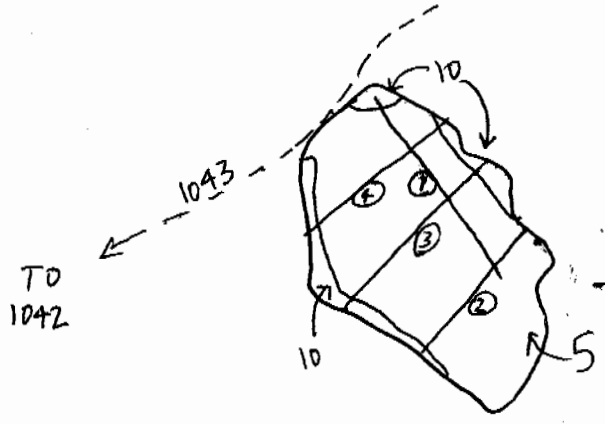
UNDISTURBED [grid with symbols and circled numbers 105, 109, 103]

DISPLACED
EXCAVATED SKID TRAIL
SMZ/ROCK

COMMENTS (Include soil, geology, organic debris-large & small, erosion, road drainage, other pertinent info)
Unit has been burned - when? Looks like broadcast burn - spring '01.
Transsect 2 is more varied / better representation of unit (closed skid trails and undisturbed areas)
Evidence of cattle use, but not recent (not this season).
Some red tail throughout unit w/ a few concentrated pockets.
Some deep rutting, suggests operation on wet / moist soils.
Very old stumps on E strip of Unit 10 -> this survey did not recognize any impacts due to past activities but old stumps = past operations have occurred.

SHAPE OF UNIT AND PATTERN OF TRANSECT

Calcareous glacial fill w/out logs.



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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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/ROCK/BLURN PII F - Include within transect if within harvest unit

Forest

44004146

08/07/2002
Three Rivers - Shimmering Grouse
Unit 11
44004146

KOOTENAI NATIONAL FOREST
"SOIL DISTURBANCE" MONITORING FORM

DATE 8.7.02 CUTTING METHOD clipper
OBSERVER Kueppen SKIDDING METHOD RTS
DISTRICT Three Rivers If tractor: dispersed _____ dedicated X
SALE/S.A. Shimmering Grouse HAZARD TREATMENT fast logs spot exp.
Unit # 1 Acres 31 SILVICULTURAL TRMT LTM SW seed reserves
H.T. C/Clan -> WH/Clan OPERATION PERIOD Jun '02
Slope 6-15 broken Aspect | easterly
Location lowers Elevation | 2500

COMPACTIION (Heavy) 53
PAST ACTIVITY 253
COMPACTIION (Light) 240
UNDISTURBED 163
 197

DISPLACED 2 ?L
EXCAVATED SKID TRAIL
rutting
SMZ/ROCK

COMMENTS (Include soil, geology, organic debris-large & small, erosion, road drainage, other pertinent info)
Topography is broken resembling outwash terraces of some kettles and/or
shalinges.
ash cap over gravelly outwash
Rutting has occurred in some of the trails

SHAPE OF UNIT AND PATTERN OF TRANSECT

COMPACTIION (Heavy) - Any place where future vegetative growth will be significantly impacted, i.e., skid trails (both heavily and lightly used depending on amount of compactiion related to soil moisture), landings, and other impacted areas.
COMPACTIION (Light) - Any other area not included in heavy COMPACTIION 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 compactiion.
SMZ/ROCK/BIURN PII E - Include within transect if within harvest unit

Foust

44004132

08/07/2002
Three Rivers - Shimmering Grouse
Unit 13
44004132

KOOTENAI NATIONAL FOREST
SOIL DISTURBANCE MONITORING FORM

DATE 8.7.02 CUTTING METHOD clipper
OBSERVER Kuennen SKIDDING METHOD RTS
DISTRICT Three Rivers If tractor: dispersed dedicated
SALE/S.A. Shimmering Grouse HAZARD TREATMENT yard tops
Unit # 13 Acres 8 SILVICULTURAL TRMT SD Improvements
H.T. GE/clan (570) OPERATION PERIOD May/June '02
Slope 5-40 Aspect SE
Location lower Elevation 2500

COMPACTION (Heavy) 31
 18

PAST ACTIVITY
COMPACTION (Light) 138

COMPACTION (Light) 151

UNDISTURBED 171

UNDISTURBED 191

DISPLACED 5

EXCAVATED SKID TRAIL
SMZ/ROCK

COMMENTS (Include soil, geology, organic debris-large & small, erosion, road drainage, other pertinent info)
Unit comprised of terrace top + terrace face.
Logging looks pretty good. Machine that came in later (I would guess to place the water bars) was when soil was very wet.
It created lots of displacement, compression + compaction.
terrace face very gravelly.
One landing in SW corner of unit served for both units 13+14.

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/ROCK/BLIND PILE - Include within transect if within hectare unit

TRANSECT SUMMARY FORM

	Transect 1		Transect 2		Transect 3		Transect 4		Transect 5		TOTALS		
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	
D i s t u r b	HEAVY	20	28	11	16	9	9	13	14	15	11		
	LIGHT	30	42	31	44	45	45.5	38	41	52	39		
	UNDISTURB	20	28	27	39	45	45.5	37	40	68	50		
	PAST ACTIVITY	2	2	1	1	-	-	4	5	-	-		
	TOTALS	72	100	70	100	99	100	92	100	135	100		
	DISPLACED	2	2	2	3	5	5	5	5	3	2		
	EROSION												
	PUDDLED												
	SMZ												
	ROCK												
	BURN PILES												

07/02

SMZ/ROCK/BURN PILE - Include within transect if within harvest unit.

TRANSECT SUMMARY FORM

	Transect 1		Transect 2		Transect 3		Transect 4		Transect 5		TOTALS		
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	
D i s t u r b	HEAVY	4	4									72	12
	LIGHT	71	64									267	47
	UNDISTURB	35	32									232	40
	PAST ACTIVITY	-	-									7	1
	TOTALS	110	100									578	
	DISPLACED	2	2										
	EROSION												
	PUDDLED												
	SMZ												
	ROCK												
	BURN PILES												

Combining current + past detrimental disturbances

TRANSECT SUMMARY FORM

	Transect 1		Transect 2		Transect 3		Transect 4		Transect 5		TOTALS		
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	
D i s t u r b	HEAVY	15	4	15	4							30	4
	LIGHT	197	56	198	54							395	55
	UNDISTURB	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							13	2
	EROSION												
	PUDDLED												
	SMZ												
	ROCK	10	3	20	5							30	4
	BURN PILES												

Combining current + past sedimental disturbance equals 7% for this activity area.

TRANSECT SUMMARY FORM

	Transect 1		Transect 2		Transect 3		Transect 4		Transect 5		TOTALS		
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	
D i s t u r b	HEAVY	31	5	10	4	3	2	6	4	38	8	88	5
	LIGHT	347	57	140	55	70	47	85	55	282	60	924	56
	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	7	3	5	3	5	3	12	3	37	2
	EROSION												
	PUDDLED												
	SMZ												
	ROCK												
	BURN PILES												

Combining Current + past detrimental disturbance equals 6.5% for this activity unit.

TRANSECT SUMMARY FORM

	Transect 1		Transect 2		Transect 3		Transect 4		Transect 5		TOTALS	
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
D i s t u r b												
HEAVY	10	5	5	3	12	7	11	5			38	5
LIGHT	95	45	92	60	95	53	138	59			420	54
UNDISTURB	102	49	53	35	67	37	88	36			310	39
PAST ACTIVITY	3	1	3	2	6	3	6	2			18	2
TOTALS	210	100	153	100	180	100	243	100			786	100
DISPLACED	10	5	3	2	15	8	15	6			43	5
EROSION												
PUDDLED												
SMZ												
ROCK												
BURN PILES												

Combining current and past detrimental disturbance equals 7% for this activity area.

52904142
KOOTENAI NATIONAL FOREST
SOIL DISTURBANCE MONITORING FORM

DATE 10/23/02 CUTTING METHOD clipper
OBSERVER Ruennen SKIDDING METHOD RTS-grapple
DISTRICT Libby If tractor: dispersed dedicated
SALE/S.A. N. McSwede / Crawford HAZARD TREATMENT log + scatter
Unit # 44 Acres 11 SILVICULTURAL TRMT LTM SW Seed/reserve
H.T. DF/Arvy → DF/Caru → DF/16 OPERATION PERIOD summer '02 Jul
Slope broken 10 of 85 Aspect west
Location mid Elevation 3650 - 3900'
COMPACTION (Heavy)

PAST ACTIVITY L P
COMPACTION (Light) 98 | 83 | 110
Disturbance

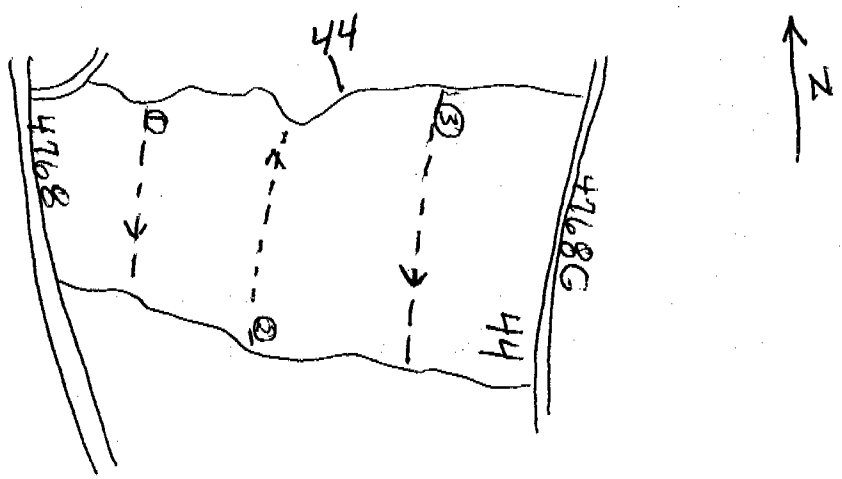
UNDISTURBED 42 | 48 | 55

DISPLACED

EXCAVATED SKID TRAIL
SMZ/ROCK

COMMENTS (Include soil, geology, organic debris-large & small, erosion, road drainage, other pertinent info)
North portion of unit had old activity (Clyde Skidder). Soil - deep till w/ high rock content (32%), No volcanic ash. Silvicultural treatment is LTM and is more like a seed tree. Left PP, DF, + wk if they were present. Old stumps throughout unit. Very little compaction or displacement.

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/ROCK/RIP/RN PII E - Include within transect if within harvest unit 07/02

TRANSECT SUMMARY FORM

	Transect 1		Transect 2		Transect 3		Transect 4		Transect 5		TOTALS		
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	
D i s t u r b i v e	HEAVY	10	7	8	6	8	4					26	6
	LIGHT	78	58	83	58	110	62					271	59
	UNDISTURB	42	31	48	33	55	31					145	32
	PAST ACTIVITY	5	4	5	3	5	3					15	3
	TOTALS	135	100	144	100	178	100					457	100
	DISPLACED	5	4	4	3	8	4					17	4
	EROSION												
	PUDDLED												
	SMZ												
	ROCK												
	BURN PILES												

Combining current and past detrimental disturbance equals 97% for this activity area.

TRANSECT SUMMARY FORM

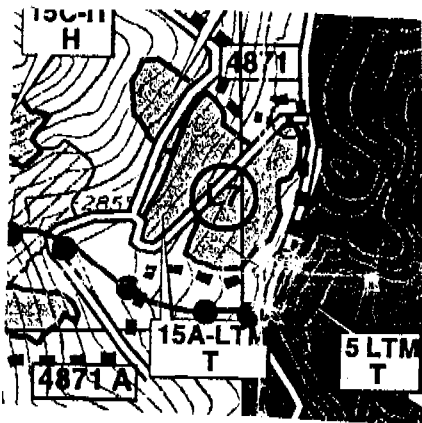
	Transect 1		Transect 2		Transect 3		Transect 4		Transect 5		TOTALS		
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	
D i s t u r b	HEAVY	3	2	3	2							6	2
	LIGHT	90	59	72	48							162	53
	UNDISTURB	60	39	73	49							133	44
b	PAST ACTIVITY	0	0	2	1							2	1
	TOTALS	153	100	150	100							303	100
	DISPLACED	8	5	0	0							8	3
	EROSION												
	PUDDLED												
	SMZ												
	ROCK												
	BURN PILES												

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

TRANSECT SUMMARY FORM

	Transect 1		Transect 2		Transect 3		Transect 4		Transect 5		TOTALS	
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
Disturbance	HEAVY <i>new/old</i>	4/13	9/9								24/13	9
	LIGHT	3/2	5/4								20/2	5/4
	UNDISTURB	13/5	3/7								15/5	3/7
	TOTALS	3/2	10/2								30/8	10/2
	DISPLACED	1/5	4								1/5	4
	EROSION											
	PUDDLED											
	SMZ											
	ROCK											
	BURN PILES											

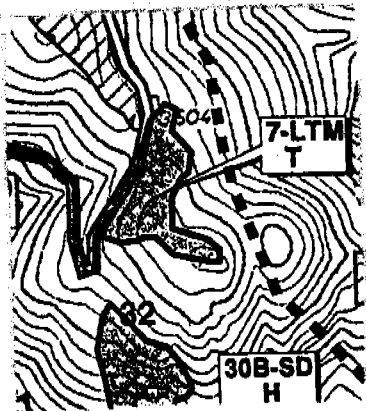
Concerning current and past detrimental disturbances equals 9/2 for this activity area.



TRANSECT SUMMARY FORM

	Transect 1		Transect 2		Transect 3		Transect 4		Transect 5		TOTALS	
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
D i s t u r b												
HEAVY	19	6	7	3	2	5					28	5
LIGHT	124	37	100	48	24	57					248	42
UNDISTURB	178	53	90	43	13	31					281	48
PAST ACTIVITY	13	4	13	6	3	7					29	5
TOTALS	334	100	210	100	42	100					586	100
DISPLACED	17	5	8	4	3	7					28	5
EROSION												
PUDDLED												
SMZ												
ROCK												
BURN PILES												

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



10/25/2002
Libby - Alexander Salvage
Unit 15A
55104079

55104079
KOOTENAI NATIONAL FOREST
SOIL DISTURBANCE MONITORING FORM

DATE 10.25.02
OBSERVER Kuennin
DISTRICT Libby
SALE/S.A. Alexander / Farmer
Unit # 15A Acres 3
H.T. DF / Phma → DF / Syal
Slope 15-40
Location lower
COMPACTION (Heavy) 121 3
CUTTING METHOD sawhead clipper
SKIDDING METHOD RT5
If tractor: dispersed dedicated
HAZARD TREATMENT understory burn
SILVICULTURAL TRMT LTM SW Seed / reserve
OPERATION PERIOD Jul '02
Aspect SE
Elevation 3400

PAST ACTIVITY L 5 1 2
COMPACTION (Light) 140
 83

UNDISTURBED 150
 127

DISPLACED 29

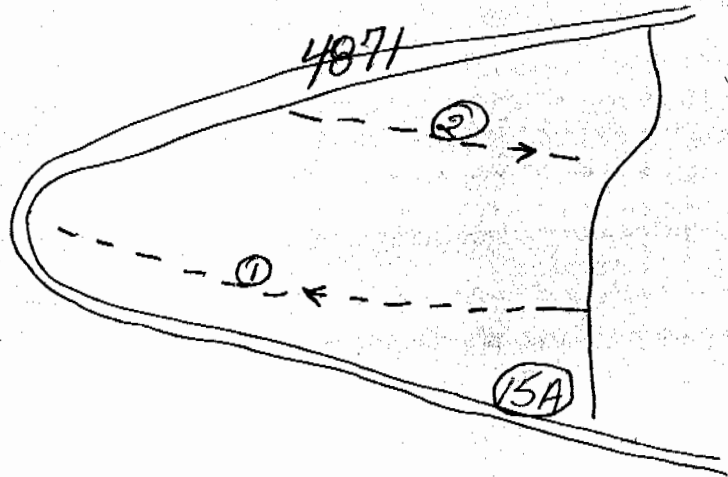
EXCAVATED SKID TRAIL

SMZ/ROCK

COMMENTS (Include soil, geology, organic debris-large & small, erosion, road drainage, other pertinent info)

Unit was logged before ~ 35 years ago. Clear cut hill / moraine, no volcanic ash surface. 15% surface rock. Loochlike 1324
Low amount of volume / A removed. Dense reprod areas resulting from last entry.
A lot of brushwood present on roads. Probably a lot was scattered into harvest units. Already evidence of SKW leaving road and moving up hill.
Waterbars generally ~~take~~ taken attempts, but coarseness of soil material will minimize or eliminate any overland flow

SHAPE OF UNIT AND PATTERN OF TRANSECT

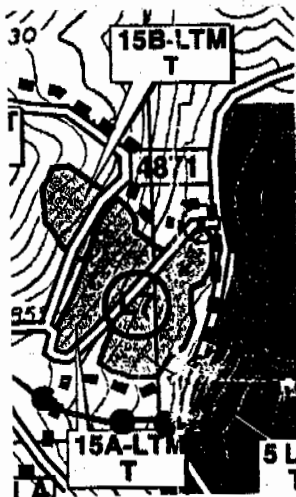


COMPACTION (Heavy) - Any place where future vegetative growth will be significantly impacted, i.e., skid trails (both heavily and lightly used depending on amount of compaction related to soil moisture), landings, and other impacted areas.
COMPACTION (Light) - Any other area not included in heavy COMPACTION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

TRANSECT SUMMARY FORM

		<i>lower</i>		<i>upper</i>		Transect 3		Transect 4		Transect 5		TOTALS	
		Transect 1		Transect 2		Transect 3		Transect 4		Transect 5		TOTALS	
		Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
D	HEAVY	12	4	3	1							15	3
s	LIGHT	140	45	83	39							223	43
t	UNDISTURB	150	49	127	59							277	53
u	PAST	5	2	2	1							7	1
r	ACTIVITY												
b	TOTALS	307	100	215	100							522	100
	DISPLACED	20	6	-	-							20	4
	EROSION												
	PUDDLED												
	SMZ												
	ROCK	2	1	-	-							2	0
	BURN PILES												

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



10/25/2002
 Libby - Alexander
 Unit 15B
 55104080

55104080
 KOOTENAI NATIONAL FOREST
 SOIL DISTURBANCE MONITORING FORM

9, 12, 13A, 32

DATE 10, 25, 02 CUTTING METHOD saw head clippers
 OBSERVER Kuennen SKIDDING METHOD RTS
 DISTRICT Libby If tractor: dispersed dedicated
 SALE/S.A. Alexander / Farmer HAZARD TREATMENT Ecosystem burn
 Unit # 15B Acres 4 SILVICULTURAL TRMT LTM / Improvements
 H.T. DF/Phma OPERATION PERIOD summer '02 Jul '02
 Slope 15-25 Aspect | SE
 Location lower Elevation | 3400 - 3500
 COMPACTION (Heavy) 3

PAST ACTIVITY

COMPACTION (Light) 80
 68

UNDISTURBED 15
 47

DISPLACED 1

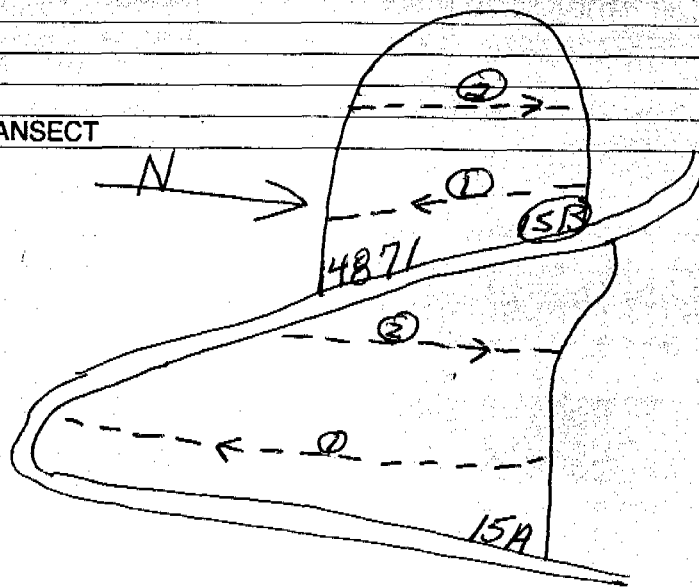
EXCAVATED SKID TRAIL

SMZ/ROCK 51

COMMENTS (Include soil, geology, organic debris-large & small, erosion, road drainage, other pertinent info)

Glacial debris soils - no volcanic ash surface. Several scattered, small rock outcrops. Helena Formation. LT 324
Upper end of second skid trail from north side of unit poorly located. This is a trap w/ no place to drain water from waterbars which are mostly 2' x 4' - straight across slope w/ no outlet.
Does not appear operator has a good handle on waterbars and/or poor machine for the job.

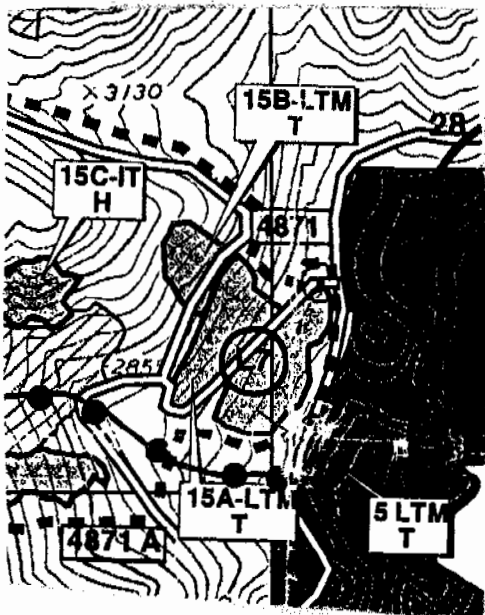
SHAPE OF UNIT AND PATTERN OF TRANSECT



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/ROCK/BURN PII E - Include within transect if within harvest unit

TRANSECT SUMMARY FORM

	Transect 1		Transect 2		Transect 3		Transect 4		Transect 5		TOTALS	
	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%	Pts.	%
D i s t u r b	HEAVY	7	4	5	4						12	4
	LIGHT	80	50	68	57						148	53
	UNDISTURB	75	46	47	39						122	43
b	PAST ACTIVITY	—		—							—	
	TOTALS	162	100	120	100						282	100
	DISPLACED	3	2	0	0						3	1
	EROSION											
	PUDDLED											
	SMZ											
	ROCK	5	3	1	0						6	2
	BURN PILES											



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

32204093
KOOTENAI NATIONAL FOREST
SOIL DISTURBANCE DATA FORM

DATE June 18, 2002
OBSERVER Kuennen/Gott
DISTRICT Fortine
SALE Roberts Mnt
Unit No. 6 13A.

CUTTING METHOD clipper
SKIDDING METHOD RTS
HAZARD TREATMENT WTY - burn landings
SILVICULTURAL TREATMENT Improvements ^{CTM} SD-LP-D
OPERATION PERIOD summer '00

H.T. - 250 As - NE
Ele - 3200
COMPACTION (Heavy)

Walk-Through

COMPACTION (Light)

UNDISTURBED

DISPLACED

EXCAVATED SKID TRAIL

SMZ

COMMENTS

gentle slopes

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.

32204094
KOOTENAI NATIONAL FOREST
SOIL DISTURBANCE DATA FORM

DATE June 18, 2002

CUTTING METHOD chipper

OBSERVER Quenney/Gott

SKIDDING METHOD PTS

DISTRICT Fortune

HAZARD ABATEMENT WTY - burning landings

SALE Roberts Mnt
Unit No. 7 55A

SILVICULTURAL CTM Improvements SD-LP-D

OPERATION PERIOD Summer '00

HT-312 E1-3400 As-SW slope 15-25

COMPACTION (Heavy) Walk through

COMPACTION (Light) _____

UNDISTURBED _____

DISPLACED _____

EXCAVATED SKID TRAIL _____

SMZ/ROCK _____

COMMENTS

Part of range review Cattle use noted along paths/trails leading to openings where grazing can occur. Can see cattle use along northwest corner of Homes Lake, but it is difficult to separate that use from the human impacts seen - wheel ruts, footprints, etc.

Shape of Unit and Pattern of Transect

32007012
KOOTENAI NATIONAL FOREST
SOIL DISTURBANCE DATA FORM

DATE June 18, 2002
OBSERVER Kuennen/Cott
DISTRICT Fortine
SALE Roberts Mountain
Unit No. 8 33A

CUTTING METHOD clipper
SKIDDING METHOD RTS
HAZARD TREATMENT WTY - burn landings
SILVICULTURAL TREATMENT Improvement ^{CTM} SD-LP-D
OPERATION PERIOD Summer '98

H.T. - 312, Slope - 5-10%, Ele. - 3300, A6-

COMPACTION (Heavy) Walk-Through

COMPACTION (Light)

UNDISTURBED

DISPLACED

EXCAVATED SKID TRAIL

SMZ

COMMENTS cattle use seen along skid trail in the form of paths.

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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SMZ - include within transect if within harvest unit.

34607032

KOOTENAI NATIONAL FOREST
SOIL DISTURBANCE DATA FORM

DATE May 15, 2002

CUTTING METHOD clipper

OBSERVER Ruennen

SKIDDING METHOD RTS

DISTRICT Fortine

HAZARD TREATMENT no burn

SALE West Sunday
Unit No. 34

SILVICULTURAL TREATMENT LTM

SAF/Mepe

31 Acres

OPERATION PERIOD winter

COMPACTION(Heavy) walk-through

COMPACTION(Light)

UNDISTURBED

DISPLACED

EXCAVATED SKID TRAIL

SMZ

COMMENTS

Part of reforestation review
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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SMZ - include within transect if within harvest unit.

32701052

DATE May 15, 2002

CUTTING METHOD chipper

OBSERVER Kuennen

SKIDDING METHOD RS

DISTRICT Fortine

HAZARD TREATMENT understory burn spring '01

SALE Murphy
Unit No. 6

SILVICULTURAL TREATMENT (shelterwood) SW seed

OPERATION PERIOD winter '98

Acres

DF

H.T.-291 Slope-25-40% Ele-3900 As-SW

COMPACTION(Heavy) Walk-Through

COMPACTION(Light)

UNDISTURBED

DISPLACED

EXCAVATED SKID TRAIL

SMZ

COMMENTS Planted to PP There was some secondary
scarification

Part of reforestation review
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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SMZ - include within transect if within harvest unit.

44601324/4602217

44601324/44602217

05/29/2002
Three Rivers - Callahan
Unit 29D

KOOTENAI NATIONAL FOREST
SOIL DISTURBANCE DATA FORM

DATE 5/29/2002

CUTTING METHOD hand

OBSERVER Kuennen

SKIDDING METHOD Tractor

DISTRICT Three Rivers

HAZARD TREATMENT understory burn spring '02

SALE Callahan (10+11)
Unit No. 29D 21 Acres

SILVICULTURAL TREATMENT LTA SW seed/preserve

WH/Clean 3200 - 3400 etc.
5-30% slope NE

OPERATION PERIOD Summer '01

COMPACTION(Heavy)

Walk-through

COMPACTION(Light)

UNDISTURBED

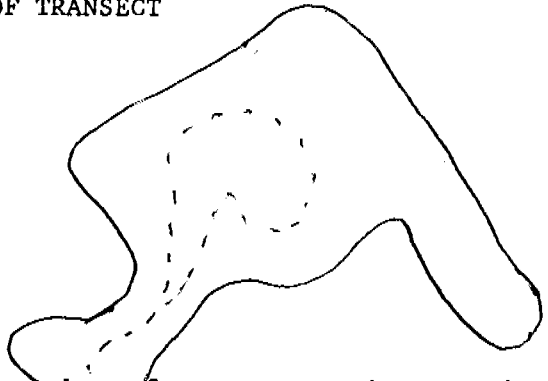
DISPLACED

EXCAVATED SKID TRAIL

SMZ

COMMENTS Planted WL + PP
Caliche fill over good ash
Mostly ridgetop, but dropping off to NE + S

Part of a representation review
SHAPE OF UNIT AND PATTERN OF TRANSECT



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SMZ - include within transect if within harvest unit.

05/29/2002

Three Rivers - Fowler Thinning Restock #1

Unit 4 & 15

42705103 / 42702116

KOOTENAI NATIONAL FOREST
SOIL DISTURBANCE DATA FORM

DATE 5/29/2002

CUTTING METHOD _____

OBSERVER Kuennen

SKIDDING METHOD _____

DISTRICT Three Rivers

HAZARD TREATMENT _____

SALE Fowler Thinning restock #1
Unit No. _____ 19 Acres
(4+15)

SILVICULTURAL TREATMENT _____

WRC/Clay
W aspect 4100 etc.
COMPACTION (Heavy)

OPERATION PERIOD
15-30% slope
Walk-through

COMPACTION (Light) _____

UNDISTURBED _____

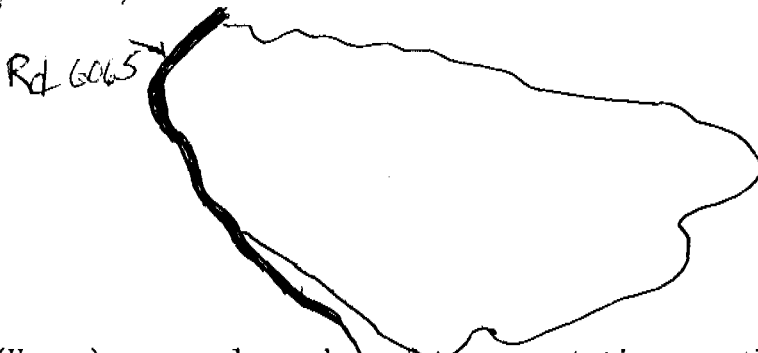
DISPLACED _____

EXCAVATED SKID TRAIL _____

SMZ _____

COMMENTS Unit was logged years ago 1979. 2000 Fowler Fire backed
through regrowth and killed some of the regrowth.
Stand was pre-commercially thinned in 1999.
Appraise that loger piling occurred following the 1979 logging.
Detrimental impacts noted.
Planted Wb (40), DF (40) + PP (20)
Grosses resprouting after fire - 12" scalps.

Part of a re-vegetation review
SHAPE OF UNIT AND PATTERN OF TRANSECT



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SMZ - include within transect if within harvest unit.

42504132 (30A) / 42504136 (36A) / 42505115 (16)

DATE 5/29/2002

CUTTING METHOD chippers

OBSERVER Kuennen

SKIDDING METHOD RTS

DISTRICT Three Rivers

HAZARD TREATMENT scattered grapple piles

SALE Fish Fry Fire Salvage
Unit No. 66B 82 Acres

SILVICULTURAL TREATMENT Fire Salvage Sanitation Sale

WH/Clan
30-45% slope 4200-4400 etc.
COMPACTION (Heavy)

OPERATION PERIOD winter '96
N+W aspects
Walk-through

COMPACTION (Light)

UNDISTURBED

DISPLACED

EXCAVATED SKID TRAIL

SMZ

COMMENTS Salvage occurred in the winter. Very few skid trails. Soil + water impacts very low. WL not killed by fire where left. Many WL naturalks were seen. New seedlings looked very good. Long term soil productivity not impacted. Dead LP was removed in 1990, burned in 1994. WL, ES, WP planted about equally.

Part of a reforestation review
SHAPE OF UNIT AND PATTERN OF TRANSECT

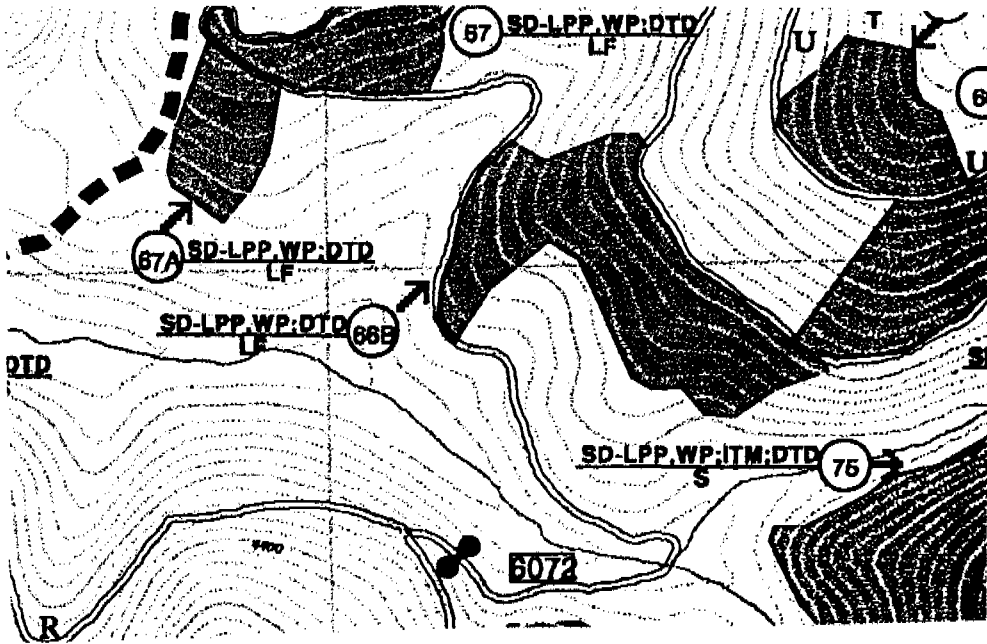
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SMZ - include within transect if within harvest unit.



42304154

KOOTENAI NATIONAL FOREST
SOIL DISTURBANCE DATA FORM

DATE July 31, 2002

CUTTING METHOD clipper-sawhead

OBSERVER Ruennen

SKIDDING METHOD RTS

DISTRICT Three Rivers

HAZARD TREATMENT jackpot burn

SALE Wood Rat

SILVICULTURAL TREATMENT ITM, SD-LP

Unit No. 26A (2) 24 Acres

OPERATION PERIOD Jan-Feb. 2000

WH/Clean 26B (3) 3450-3650
SSW

Walk-Through

COMPACTION (Heavy)

COMPACTION (Light)

UNDISTURBED

DISPLACED

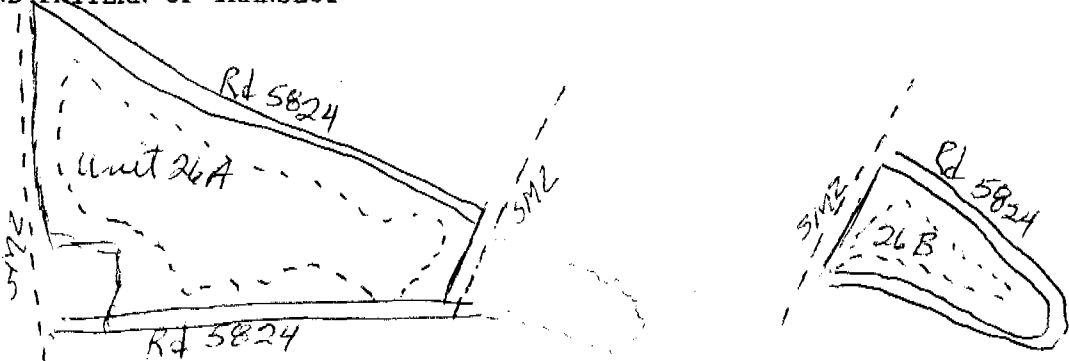
EXCAVATED SKID TRAIL

SMZ 2 SMZ one between units, one on ^{west} side of unit 26A

COMMENTS On road leading to unit - good things done road surface and ditch drainage. More roller culverts were installed, blind drain used in crossing small/wet area. Surface drainage could have been better.

From soil + water stand point unit looks good. Good fireline - Excavator amount of soil material moved could have been less. Maintained a good SMZ.

Part of State BMP audit
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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SMZ - include within transect if within harvest unit.

31-71703137

33-71703137

50-71703137

08/06/2002

Three Rivers - Garver Proposal

Unit 31, 33, 50

KOOTENAI NATIONAL FOREST
SOIL DISTURBANCE MONITORING FORM

DATE Aug 6, 2002 CUTTING METHOD _____
 OBSERVER Ryerson / Newga SKIDDING METHOD _____
 DISTRICT Three Rivers If tractor: dispersed _____ dedicated _____
 SALE/S.A. Garver Proposal HAZARD TREATMENT _____
 Unit # _____ Acres _____ SILVICULTURAL TRMT _____
 H.T. _____ OPERATION PERIOD _____
 Slope _____ Aspect I _____
 Location _____ Elevation I _____
 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)

Unit 31 (Lap Creek) - some excavated trails exist throughout; estimated to be 4-6% detrimental disturbance present. Orange hawkweeds also noted along closed road leading to unit.
Unit 33 (French Creek) - No previous activity. H.T. - WH/Chen. Unit lies on small ridge with the sides dropping off to wetter sites. Volcanic ash 8-12" over fill. Low rock content in ash.
Unit 50 (Hensley Hill) - lies adjacent to Hensley Hill Rd 5892. Overland skidding has occurred in the area previously. Knapweed scattering up hillside, especially along old trails.

SHAPE OF UNIT AND PATTERN OF TRANSECT

Unit 31: H.T. - DF/Libo -> S/Libo. Reuse old trails as much as possible. Provide some drainage in several places on access road. Spray orange hawkweed on access road prior to use. 10 acres; E aspect; intermediate harvest; planned winter tractor
Unit 33: H.T. - WH/Chen. Recommend winter operation. H.T. indicates that soils will not meet 18% moisture. Ash w/o rock easily disturbed. 20 acres; S aspect; regeneration harvest; planned tractor.
Unit 50: H.T. - DF/Arw -> DF/Syl. Reuse old trails. Spray area prior to operation. 13 acres; S aspect; intermediate harvest; planned tractor

- 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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- 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/ROCK/BURN PILE** - Include within transect if within harvest unit.

46-41703151 46-41703151

47-41703151 47-41703151

08/06/2002

Three Rivers - Garver Proposal

Unit 46 & 47

KOOTENAI NATIONAL FOREST
SOIL DISTURBANCE MONITORING FORM

DATE Aug 6, 2002 CUTTING METHOD _____
 OBSERVER Kuesner / Newgard SKIDDING METHOD _____
 DISTRICT Three Rivers If tractor: dispersed _____ dedicated _____
 SALE/S.A. Garver proposal HAZARD TREATMENT _____
 Unit # 46 & 47 Acres 23 & 11 SILVICULTURAL TRMT _____
 H.T. DF / Carw 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)

These proposed units have each had 1-2 acres on the west & east ends salvaged. LF was the species. The trees were either standing dead or lying on the ground. The landscape is rocky. The upper part has 10-25% slope that drops over an old fence-line down to a flat adjacent to the Yak Highway. Some detrimental disturbance occurred with the salvage. These existing trails as well as the landing should be reused. Spotted knapweed is present and should be sprayed before operations. Clean all equipment before entry.

SHAPE OF UNIT AND PATTERN OF TRANSECT

Unit 46: 23 acres; SE aspect; intermediate harvest; planned tractor. 41703151

Unit 47: 11 acres; 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 activity.

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.

**KOOTENAI NATIONAL FOREST
 SOIL DISTURBANCE MONITORING FORM**

DATE 9/23/02
 SERVER Kuennen/Newgard
 DISTRICT Three Rivers
 SALE/S.A. Garver Proposal
 Unit # _____ Acres _____
 H.T. _____
 Slope _____ Aspect | _____
 Location _____ Elevation | _____
 COMPACTION (Heavy) _____
 COMPACTION (Light) _____
 UNDISTURBED _____
 DISPLACED _____
 EXCAVATED SKID TRAIL _____
 SMZ/ROCK _____

COMMENTS (Include soil, geology, organic debris, other pertinent info)

Field trip to review proposed Garver units: Visited units 18, 19, 23, 25, 34, 3.
 Not one of the units have previously been entered.
 Not a lot of discussion was associated w/ Unit 34. The unit is generally
 fairly flat, but contains a terrace-edge like feature that will make
 access somewhat difficult from the existing road. The H.T. is WH/
 Clun w/ occasional wet areas. The soil had 8-14" of volcanic ash
 over a gravelly subsoil. The site has a good organic mat. Hazard
 abatement could be a problem. The splash and wet habitat type
 could lead to significant detrimental soil disturbance.

SHAPE OF UNIT AND PATTERN OF TRANSECT

- 18B: 15 acres; 42201111; S aspect; regen; planned heli.
- 19C: 10 acres; 42201118; S aspect; intermediate harvest; planned heli.
- 23: 52 acres; 42201112/42201110; S aspect; intermediate harvest;
 planned skyline
- 25: 13 acres; 42201115; S aspect; intermediate harvest; planned tractor
- 34: 50 acres; 41901161; NE aspect; intermediate harvest; planned heli.
- 3: 129 acres; 41901158; NE aspect; intermediate harvest; planned tractor

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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 SMZ - Include within transect if within harvest unit.

73102045

KOOTENAI NATIONAL FOREST
SOIL DISTURBANCE DATA FORM

DATE May 23, 2002

CUTTING METHOD hand

OBSERVER Suominen

SKIDDING METHOD wired cable + tractor

DISTRICT Cabinet

HAZARD TREATMENT BB spring 2001

SALE Burnt Lion
Unit No (16A)

SILVICULTURAL TREATMENT CC w/ reserves

- 37 acres

OPERATION PERIOD Jul/Aug '00

COMPACTION(Heavy) Walk-through

COMPACTION(Light)

UNDISTURBED

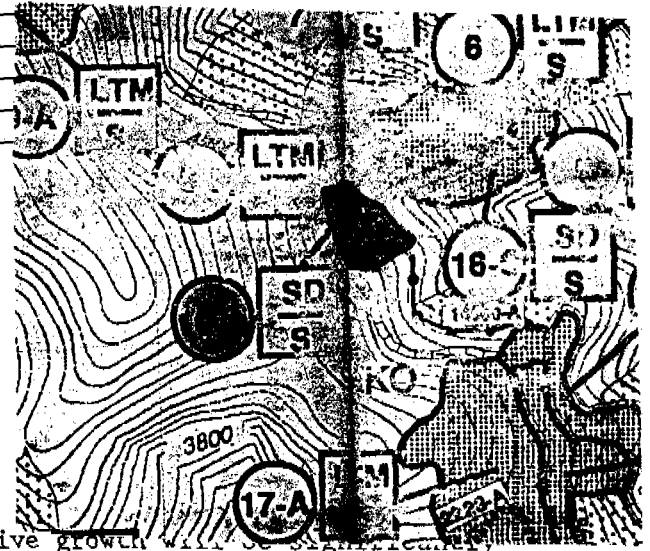
DISPLACED

EXCAVATED SKID TRAIL

SMZ

COMMENTS For a spring burn this was fairly hot. Killed a lot of DF overstory. Burn removed many of the pine of organics. CWB is light. Too much fuel. Planted PP + WL + WP

Part of reforestation review
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.

71301006

KOOTENAI NATIONAL FOREST
SOIL DISTURBANCE DATA FORM

DATE May 23, 2002

CUTTING METHOD hand

OBSERVER Kuennen

SKIDDING METHOD Tractor

DISTRICT Cabinet

HAZARD TREATMENT Excavator pile w/ scalps

SALE Smeads Rice

SILVICULTURAL TREATMENT Seed tree w/ reserves

Unit No. 6A 33 Acres

OPERATION PERIOD winter logged Jan '00

WH/Clun

COMPACTION(Heavy) Walk-through

COMPACTION(Light) _____

UNDISTURBED _____

DISPLACED _____

EXCAVATED SKID TRAIL _____

SMZ _____

COMMENTS Planted WP + WH. Lots of root rot in harvested stand. Fair number of rock in soil w/ some outcrops. Tough planting in some areas.

Part of reforestation review
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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