KOOTENAI NATIONAL FOREST
SOIL DISTURBANCE DATA FORM

DATE 6/26/89

CUTTING METHOD clipper/hand

SKIDDING METHOD skyline

HAZARD TREATMENT BB-1990

SILVICULTURAL TREATMENT CC-1989

OPERATION PERIOD June 1989, wk 1/03

Walk-through

COMPACTION (Heavy)

COMPACTION (Light)

UNDISTURBED

DISPLACED

EXCAVATED SKID TRAIL

SMZ

COMMENTS

SHAPE OF UNIT AND PATTERN OF TRANSECT

Ash cap 8-12°. Soil moisture still high.

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
CUTTING METHOD: clipper/hand
SKIDDING METHOD: skidline
HAZARD TREATMENT: BB, spring 1990
SILVICULTURAL TREATMENT: CC

CUTTING METHOD: clipper/hand
SKIDDING METHOD: skidline
HAZARD TREATMENT: BB, spring 1990
SILVICULTURAL TREATMENT: CC

DATE: 06/26/89
OBJECT: Libby
DISTRICT: Libby
SALE: Swamp Schrieber
Unit No. 2

HT: WH/Cur.: Acre: 39
Aspect: north

OPERATION PERIOD: June 1989 to 11/03
Etc.: 4950 - 5400

COMPACTION (Heavy): Walk-through

COMPACTION (Light)

UNDISTURBED

DISPLACED

EXCAVATED SKID TRAIL

SMZ

COMMENTS

SHAPE OF UNIT AND PATTERN OF TRANSECT

Ash cap 6-10" over till. Soil moisture still high near ridge top about ready.

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5/93
KOOTENAI NATIONAL FOREST
SOIL DISTURBANCE DATA FORM

DATE 6/26/89
OBSERVER Kuennel/Decuy
DISTRICT Libby
SALE Swamp/Schrieber Unit No. 4 Acre: 59
H, T. - Aba/Chun
Aspect: SE → SW

COMPACTION(Heavy) Walk-through

COMPACTION(Light)

UNDISTURBED

DISPLACED

EXCAVATED SKID TRAIL

SMZ

COMMENTS
Ash fairly thin 4-6". Soil moisture about right.

SHAPE OF UNIT AND PATTERN OF TRANSECT

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5/93
KOOTENAI NATIONAL FOREST
SOIL DISTURBANCE DATA FORM

DATE 6/26/89

CUTTING METHOD chipper/hand

SKIDDING METHOD Tractor

HAZARD TREATMENT Dozer Pile

SILVICULTURAL TREATMENT CC w/ reserve

OPERATION PERIOD June 1989 wk 1/03

COMPACİON(Heavy) Walk-Through

COMPACİON(Light)

UNDISTURBED

DISPLACED

EXCAVATED SKID TRAIL

SMZ

COMMENTS

SHAPE OF UNIT AND PATTERN OF TRANSECT

Soils too wet to operate on.

COMPACİON(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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5/93
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SMZ - include within transect if within harvest unit.
**SOIL DISTURBANCE DATA FORM**

**DATE** 7/13/89

**OBSERVER** Krennen/Deery

**DISTRICT** Libby

**SALE** South Flower Bugs

**Unit No.** 1A & 1B

**Acres:** 18 + 10

**CUTTING METHOD** Clipper/Hand

**SKIDDING METHOD** Tractor

**HAZARD TREATMENT** 1a - BB, 1b - dozer pile

**SILVICULTURAL TREATMENT**

**OPERATION PERIOD**

**COMPACTION (Heavy)** Walk-through

**COMPACTION (Light)**

**UNDISTURBED**

**DISPLACED**

**EXCAVATED SKID TRAIL**

**SMZ**

**COMMENTS**

Unit demanding too wet for dozer piling

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**SHAPE OF UNIT AND PATTERN OF TRANSECT**

![Diagram of unit and 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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**DISPLACED** - any place soil has been mounded by machinery, also include in heavy or light compaction.

**SMZ** - include within transect if within harvest unit.
DATE 7/13/89

CUTTING METHOD chipper

SKIDDING METHOD tractor

HAZARD TREATMENT DP

DISTRICT Libby

SALE Pipe Flats Posts (More)

Unit No. 7-14 (3) Bags

SILVICULTURAL TREATMENT SW seed w/ Reserves

H.T. DF Vac

slope < 5

Ele: 2450-2500

SMZ - include within transect if within harvest unit.

SHAPE OF UNIT AND PATTERN OF TRANSECT

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Walk-Through

5/93
HAZARD TREATMENT
13

UNDISTURBED

DISPLACED

EXCAVATED SKID TRAIL

SMZ

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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KOOTENAI NATIONAL FOREST
SOIL DISTURBANCE DATA FORM

DATE  8-24-89

CUTTING METHOD: hand/clipper

SKIDDING METHOD: cable

HAZARD ABATEMENT:

DISTRICT: Fisher River

SALE: Devastation Alley, F.S.

Unit No.: 3, 4A

SILVICULTURAL: CC

OPERATION PERIOD: Summer '89

WALK-THROUGHS

COMPACTION (Heavy)

COMPACTION (Light)

UNDISTURBED

DISPLACED

EXCAVATED SKID TRAIL

SMZ/ROCK

COMMENTS: No activity in SMZ in 4A

Unit 3: 42A, 10-50%, slope, S aspect, 4900 ft, HT - 620
Salvaged 1989 CC, burned landings 1991

Unit 4A: 81A, 10-25%, slope, S aspect, 4900 ft, HT - 620
Salvaged 1989, burned landings 1991

Shape of Unit and Pattern of Transect

Part of Aug. 1988 Dry Fork Fire
**KOOTENAI NATIONAL FOREST**  
**SOIL DISTURBANCE DATA FORM**

<table>
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<th>SKIDDING METHOD</th>
<th>HAZARD ABATEMENT</th>
<th>SILVICULTURAL METHOD</th>
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<td><strong>Clipper</strong></td>
<td>RFS</td>
<td>Burned landings</td>
<td>CC-1a Seed Tree -3</td>
<td>Winter 89-90</td>
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</table>

**DISTRICT:** Fisher River  
**SALE:** Black Bush Fire Salvage  
**Unit No.:** 143  
**56A, 30A**  
**COMPACTION:** Heavy  
**COMPACTION (Light):**  
**UNDISTURBED:**  
**DISPLACED:**  
**EXCAVATED SKID TRAIL:**  
**SMZ/ROCK:**  
**COMMENTS:**

**Unit 1:**  55907091 - 35A, 55907120 - 21A; 10-25% slope,  
N-NW aspect, 4800-5000' ele, HT 621'  

**Unit 3:**  55907047 - 16A, 55907062 - 14A; 10-20% slope,  
N-NW aspect, 4600-4700' ele, HT 681  
- 1989-1990, Burned landings

**Shape of Unit and Pattern of Transect:**  
Part of Aug, 1988 Dry Fork Fire
KOOTENAI NATIONAL FOREST
SOIL DISTURBANCE DATA FORM

DATE 8.31.89

CUTTING METHOD clipper

SKIDDING METHOD RTS

HAZARD ABATEMENT burn landing

SILVICULTURAL CC

OPERATION PERIOD Dec.-Jan. '88-'89

COMPACTION (Heavy)

walk through

COMPACTION (Light)

UNDISTURBED

DISPLACED

EXCAVATED SKID TRAIL

SMZ/ROCK

COMMENTS

Unit 2: 10-20% slope; E aspect; 4700-5100; Etc.; burned landing -1990; H.T. 620

Special Treatment Zone - along N boundary adjacent to drainage, L.D.S along margin of Unit

Shape of Unit and Pattern of Transect

Part of 1988 Dry Fork Fire
HAZARD ABATEMENT:

SILVICULTURAL:
CC-2, CTM-1

OPERATION PERIOD:
Jan-Feb '89

COMPACTION (Heavy):
Waist Through

COMPACTION (Light):

UNDISTURBED:

DISPLACED:

EXCAVATED SKID TRAIL:

SMZ/ROCK:
Unit 2: 38A; 15-25% slope; Ele - 4700-1900; NW aspect;
H.T. 732

Unit 1: 38A; 15-25% slope; Ele - 4900-5100;
NW aspect;
H.T. 732

COMMENTS:
Special treatment zone in Unit 1 & adjacent to Unit 2
LDS unmerchantable, in both units
Some WL seed trees in Unit 1; all LPP in Unit 2. Did not burn so hot in Unit 1

Shape of Unit and Pattern of Transect:
Part of 1988 Dry Fork Fire
KOOTENAI NATIONAL FOREST
SOIL DISTURBANCE DATA FORM

DATE 9/19/89

CUTTING METHOD

SKIDDING METHOD

HAZARD ABATEMENT

SILVICULTURAL

OPERATION PERIOD

COMPACTION (Heavy)

 walk through

COMPACTION (Light)

UNDISTURBED

DISPLACED

EXCAVATED SKID TRAIL

SMZ/ROCK

COMMENTS

Top of terrace - lacustrine soil. Large grooves created by Clyde Shelt. Skidding visible. Early logging impact heavy.

Unit 2 - CC 1990 41A - landing burned 1999; RTS skidded HT - 591; Elk - 2400; essentially flat

Unit 1 - 5 - 20% slope; Elk - 2200; fall in August; HT - 591

Shape of Unit and Pattern of Transect
Part of 1988 Redo Tower Fire