

539 05 040

06/26/1989
Libby - Swamp Schriber
Unit 1
53905040

KOOTENAI NATIONAL FOREST
SOIL DISTURBANCE DATA FORM

DATE 6/26/89

CUTTING METHOD clipper/hand

OBSERVER Kuennen/Deery

SKIDDING METHOD skylene

DISTRICT Libby

HAZARD TREATMENT BB - 1990

SALE Swamp/Schriber
Unit No. 1 Acres: 34

SILVICULTURAL TREATMENT CC-1989

HT: Abla/Mele
Aspect: north

OPERATION PERIOD: June 1989 nk/03
Ele: 4700-5100

COMPACTION(Heavy) Walk-through

COMPACTION(Light)

UNDISTURBED

DISPLACED

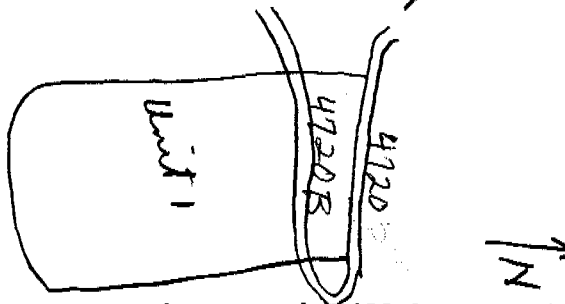
EXCAVATED SKID TRAIL

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.

539 05 018

KOOTENAI NATIONAL FOREST
SOIL DISTURBANCE DATA FORM

06/26/1989
Libby - Swamp Schriber
Unit 2
53905018

DATE 6/26/89 CUTTING METHOD clipper/hand
OBSERVER Kuennen/Deery SKIDDING METHOD skylene
DISTRICT Libby HAZARD TREATMENT BB spring 1990
SALE Swamp/Schriber SILVICULTURAL TREATMENT CC
Unit No. 2

HT: WH/Clur Acres: 39 OPERATION PERIOD: June 1989 wk 103
Aspect: north Elevation: 4950 - 5400

COMPACTION (Heavy) Walk-through

COMPACTION (Light)

UNDISTURBED

DISPLACED

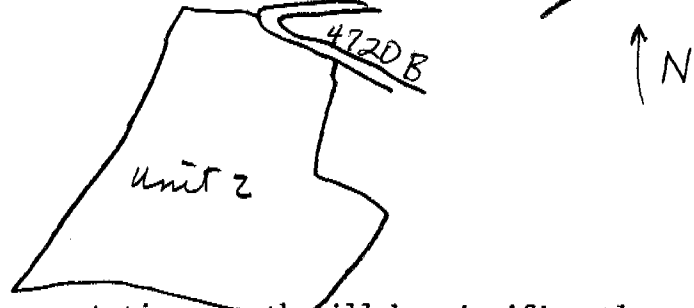
EXCAVATED SKID TRAIL

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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539 05 021

KOOTENAI NATIONAL FOREST
SOIL DISTURBANCE DATA FORM

06/26/1989
Libby - Swamp Schrieber
Unit 4
53905021

DATE 6/26/89

CUTTING METHOD clipper/hand

OBSERVER Kuennen/Deevy

SKIDDING METHOD skylene

DISTRICT Libby

HAZARD TREATMENT BB-1990

SALE Swamp/Schrieber
Unit No. 4 Acres: 39

SILVICULTURAL TREATMENT CC-1989

H.T. - Abta/Clun
Aspect: SE -> SW

OPERATION PERIOD: June 1989 wk 1/03
Ele: 4300-4500

COMPACTION(Heavy) Walk-through

COMPACTION(Light)

UNDISTURBED

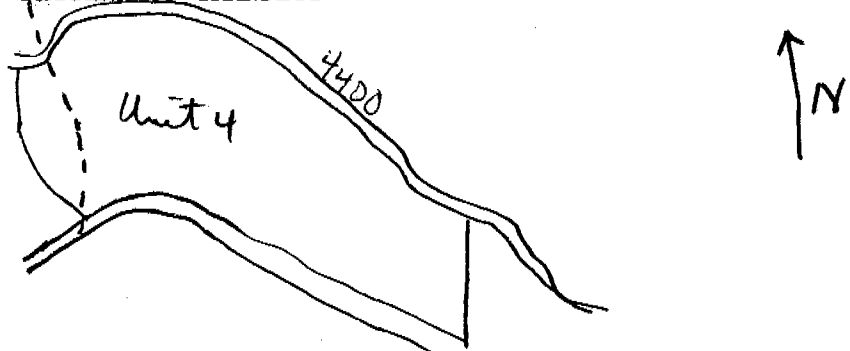
DISPLACED

EXCAVATED SKID TRAIL

SMZ

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

SHAPE OF UNIT AND PATTERN OF TRANSECT



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.

DATE 6.26.89

CUTTING METHOD chipper/hand

OBSERVER Kuennen/Deery

SKIDDING METHOD Tractor

DISTRICT Libby

HAZARD TREATMENT Dozer Pile

SALE Little Cherry Bugs ^{nk 1/07}
Unit No. 1 Acres: 24

SILVICULTURAL TREATMENT CC w/ reserves

H.T. - WH/Clam
aspect: east slope: 5-15 Ele: 3450 - 3550

OPERATION PERIOD June 1989 nk 1/03

COMPACTION(Heavy) Walk-through

COMPACTION(Light)

UNDISTURBED

DISPLACED

EXCAVATED SKID TRAIL

SMZ

COMMENTS Looked at after piling for CWD amount. Also looked at on Silviculture/full abatement review w/ Russ Graham from Moscow Lab.

SHAPE OF UNIT AND PATTERN OF TRANSECT

Soils too wet to operate on.

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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SMZ - include within transect if within harvest unit.

537 05 007
KOOTENAI NATIONAL FOREST
SOIL DISTURBANCE DATA FORM

06/26/1989
Libby - Little Cherry Bugs
Unit 2
53705007

DATE 6/26/89 CUTTING METHOD clipper

OBSERVER Kuennen/Decuy SKIDDING METHOD Tractor

DISTRICT Libby HAZARD TREATMENT Dozer piling

SALE Little Cherry Bug SILVICULTURAL TREATMENT CC w/ reserves

Unit No. 2 Area: 39 OPERATION PERIOD Summer

HT: WH/clun ^{8 m} _{6/30/07} nk 1103

Aspect: SE Slope: 0-10 Ele: 3500

COMPACTION(Heavy) Walk-through

COMPACTION(Light)

UNDISTURBED

DISPLACED

EXCAVATED SKID TRAIL

SMZ

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.

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524 01 080

KOOTENAI NATIONAL FOREST
SOIL DISTURBANCE DATA FORM

07/13/1989

Libby - South Flower Bugs

Unit 1A & 1B

52401080

DATE 7.13.89

CUTTING METHOD clipper/hand

OBSERVER Kuennen/Deery

SKIDDING METHOD Tractor

DISTRICT Libby

HAZARD TREATMENT 1a-BB, 1b dozer pile

SALE South Flower Bugs

SILVICULTURAL TREATMENT _____

Unit No. 1a & 1b

OPERATION PERIOD _____

Acres: 18 & 10

COMPACTION(Heavy) Walk-through

COMPACTION(Light) _____

UNDISTURBED _____

DISPLACED _____

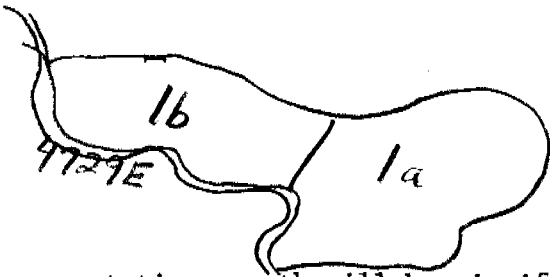
EXCAVATED SKID TRAIL _____

SMZ _____

COMMENTS

Unit 1b staying too wet for dozer piling

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.

517 04 002

KOOTENAI NATIONAL FOREST
SOIL DISTURBANCE DATA FORM

07/13/1989
Libby - Pipe Flats Posts
Unit 7-14
51704002

DATE 7-13-89

CUTTING METHOD clipper

OBSERVER Kuennen/Deery

SKIDDING METHOD Tractor

DISTRICT Libby

HAZARD TREATMENT DP

SALE Pipe Flats Posts (More)

SILVICULTURAL TREATMENT SW seed w/ Reserves

Unit No. 7-14 (3) Bugs

OPERATION PERIOD Summer 1989

H.T. DF/Vaca
slope < 5%

63A

Ele: 2450-2500

COMPACTION (Heavy)

Walk-through

COMPACTION (Light)

UNDISTURBED

DISPLACED

EXCAVATED SKID TRAIL

SMZ

COMMENTS

Ash over very gravelly outwash. Even though soil material below the ash is heavy coarse, the ash is holding close to field capacity. It is too wet to operate.

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.

26 - 508 03 136 - 9A
27 - 508 03 155 - 9A
28 - 508 03 154 - 9A
DATE 7.13.89

KOOTENAI NATIONAL FOREST
SOIL DISTURBANCE DATA FORM

06/26/1989
Libby - Purcell
Unit 26-28
50803138 50803155 50803154

OBSERVER Kucinen / Maffei

CUTTING METHOD clipper/hand

DISTRICT Libby

SKIDDING METHOD Tractor

SALE Dash Purcell
Unit No. 26-28

HAZARD TREATMENT DP

H.T.: WRC/CIun
slope: 15-30%
COMPACTION (Heavy)

SILVICULTURAL TREATMENT CC

OPERATION PERIOD summer '89
Ele: 4900-5000
Aspect: S-W

COMPACTION (Light)

UNDISTURBED

DISPLACED

EXCAVATED SKID TRAIL

SMZ

COMMENTS

Cr. Soils very wet. Ash over till. Upper basin of E.F. Pipe

SHAPE OF UNIT AND PATTERN OF TRANSECT

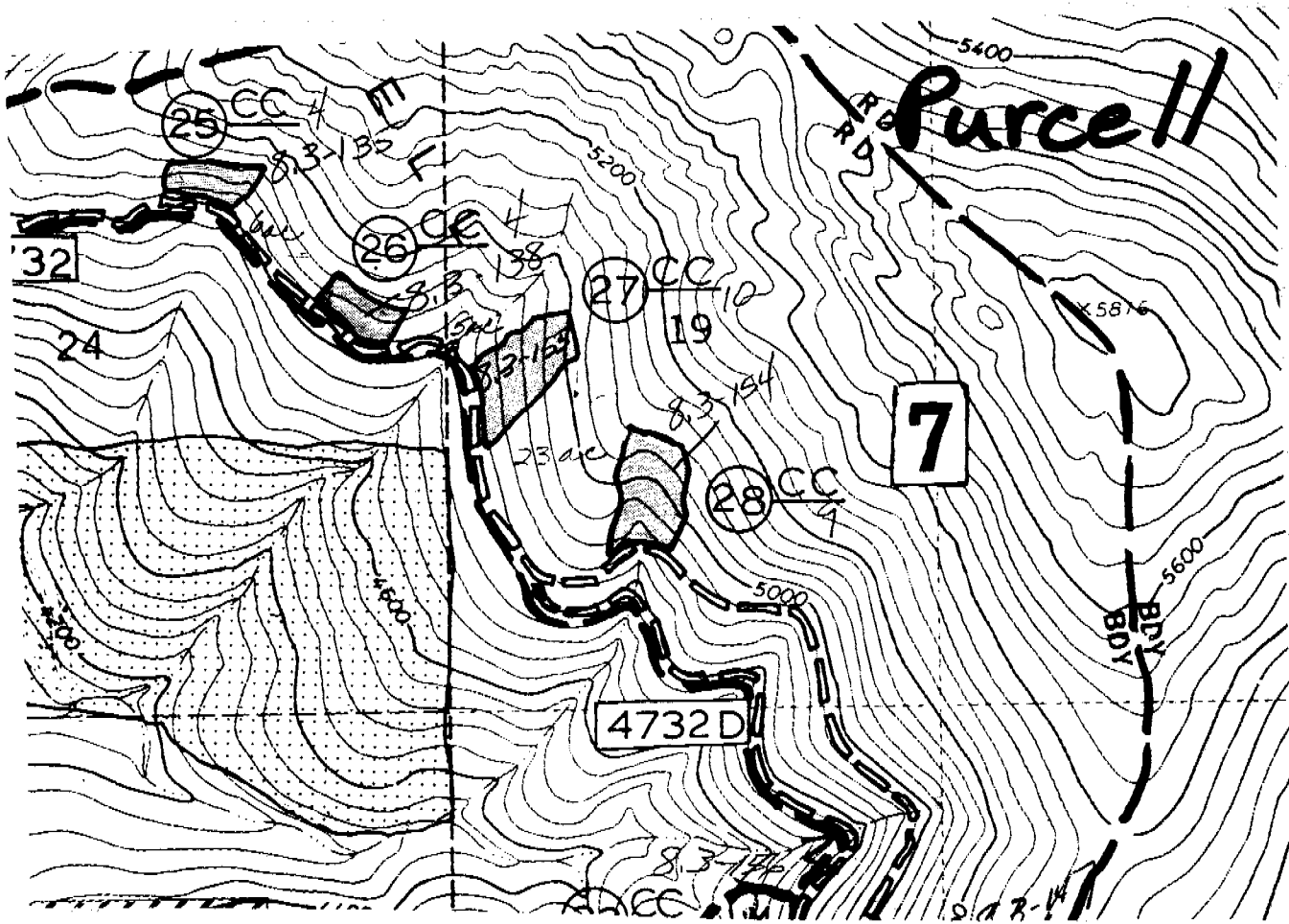
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SMZ - include within transect if within harvest unit.



55902043 - 3
55902043 - 4A

08/24/1989
Fisher River - Devastation Alley Fire Salvage
Unit 3, 4A
55902043 55902047

KOOTENAI NATIONAL FOREST
SOIL DISTURBANCE DATA FORM

DATE 8-24-89 CUTTING METHOD hand/clipper

OBSERVER Kuennen/McBride SKIDDING METHOD cable

DISTRICT Fisher River HAZARD ABATEMENT _____

SALE Devastation Alley F.S SILVICULTURAL CC
Unit No. 3, 4A

OPERATION PERIOD Summer '89

COMPACTION (Heavy) Walk-Throughs

COMPACTION (Light) _____

UNDISTURBED _____

DISPLACED _____

EXCAVATED SKID TRAIL _____

SMZ/ROCK _____

COMMENTS No activity in SMZ in 4A

Unit 3: 42A, 10-50% slope, S aspect, 4700 Ele, H.T. - 620
Salvaged 1989 CC, burned landings 1991

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

Shape of Unit and Pattern of Transect
Part of Aug. 1988 Dry Fork Fire

55907091 - 3 - 55907062
55907120 - 2 - 55907047

KOOTENAI NATIONAL FOREST
SOIL DISTURBANCE DATA FORM

DATE 8.24.89

CUTTING METHOD clipper

OBSERVER Kuennen

SKIDDING METHOD RTS

DISTRICT Fisher River

HAZARD ABATEMENT burn landings

SALE Black Bush Fire Salv.
Unit No. 1 & 3

SILVICULTURAL CC-1 & Seed Tree³

56A, 30A

OPERATION PERIOD winter 89-90

COMPACTION(Heavy) _____

Walk through

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, H.T-621;
CC - 1989-1990, burned landings 1991

Unit 3: 55907047 - 16A, 55907062 - 14A; 10-20% slope,
N-NW aspect, 4600-4700 ele, HT 621
- 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

58007089 - 21A
58007108 - 10A

DATE 8.31.89

CUTTING METHOD chipper

OBSERVER Kuennen

SKIDDING METHOD RTS

DISTRICT Snafu Fire Salvage HAZARD ABATEMENT burn landings

SALE Fisher River

SILVICULTURAL CC

Unit No. 2

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 - E/c; burned landings - 1990; H.T. 620

Special Treatment zone - along N boundary adjacent to drainage. LDS along margins of Unit 1

Shape of Unit and Pattern of Transect

Part of 1988 Dry Fork Fire

1-57974013 38A
2-57904059 - 322
DATE 8.31.89

KOOTENAI NATIONAL FOREST
SOIL DISTURBANCE DATA FORM

08/31/1989
Fisher River - Stump Holes and Ashes
Unit 1 & 2
57904013 57904059

DATE 8.31.89

CUTTING METHOD clipper

OBSERVER Kuennen

SKIDDING METHOD RTS

DISTRICT Fisher River

HAZARD ABATEMENT _____

SALE Stump Holes + Ash F.S.
Unit No. 1 + 2

SILVICULTURAL CC-2, LTM-1

OPERATION PERIOD Jan-Feb '89

COMPACTION(Heavy) _____

COMPACTION (Light) _____

UNDISTURBED _____

DISPLACED _____

EXCAVATED SKID TRAIL _____

SMZ/ROCK Unit 2: 38A; 15-25% slope; Ele - 4700-4900'; NW aspect;
H.T. 732

COMMENTS
Unit 1: 38A; 15-25% slope; Ele - ^{4900-5100'}; NW aspect;
H.T. - 732

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 as 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 Hand chipper ^{with} (30)°S

OBSERVER Kuennen

SKIDDING METHOD RTS

DISTRICT Libby

HAZARD ABATEMENT _____

SALE Radio Tower F.S.
Unit No. 2, 1
41A, 5A

SILVICULTURAL 2-CC, 3-~~CCM~~

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 skidders still very visible. Early logging impact - heavy.

Unit 2 - CC 1990 41A ; landing burned 1992; RTS skidded HT-591, Elk-2400, essentially flat

Unit 1 - 5-20% slope; Elk-2200; flat to w aspect; HT-591; 5A CC-1990

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