KOOTENAI NATIONAL FOREST
SOIL DISTURBANCE DATA FORM

DATE 5/15/91

CUTTING METHOD clipper

OBSEWER Frennen

SKIDDING METHOD RFS

DISTRICT Fisher River

HAZARD ABATEMENT burn landing

SALE Slippery Slime F.S.

UNIVERSAL CC

Unit No. 2

OPERATION PERIOD Summer 1990

COMPACTION (Heavy)

Walk-Through

COMPACTION (Light)

UNDISTURBED

DISPLACED

EXCAVATED SKID TRAIL

SMZ/ROCK

COMMENTS

Unit 2: 57903027; 37A: 20 - 35% slope; C6. 4600 - 520
S aspect; H.T. 663 Burned landing 1990

LDS: Two STZ's in unit

Shape of Unit and Pattern of Transect

Part of 1988 Dry Fork Fire
<table>
<thead>
<tr>
<th>COMPACTION (Heavy)</th>
<th>Walk through</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPACTION (Light)</td>
<td>--------------</td>
</tr>
<tr>
<td>UNDISTURBED</td>
<td>--------------</td>
</tr>
<tr>
<td>DISPLACED</td>
<td>--------------</td>
</tr>
<tr>
<td>EXCAVATED SKID,TRAIL</td>
<td></td>
</tr>
<tr>
<td>SMZ/ROCK</td>
<td>--------------</td>
</tr>
<tr>
<td>COMMENTS</td>
<td>--------------</td>
</tr>
</tbody>
</table>

**Shape of Unit and Pattern of Transect**

### Soil Disturbance Monitoring Form

**Kootenai National Forest**

**SOIL DISTURBANCE MONITORING FORM**

<table>
<thead>
<tr>
<th><strong>DATE</strong></th>
<th>June 12, 1991</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>OBSERVER</strong></td>
<td>Enumclaw</td>
</tr>
<tr>
<td><strong>DISTRICT</strong></td>
<td>Smoke Creek</td>
</tr>
<tr>
<td><strong>SALE/S.A.</strong></td>
<td>3</td>
</tr>
<tr>
<td><strong>H.T.</strong></td>
<td>Upper</td>
</tr>
<tr>
<td><strong>Slope</strong></td>
<td>50%</td>
</tr>
<tr>
<td><strong>Location</strong></td>
<td>Walk-Thru</td>
</tr>
</tbody>
</table>
| **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** | Include within transect if within harvest unit.

**HAZARD TREATMENT**

| **SILVICULTURAL TRMT** | Planting/Lifttree LTM |
| **HAZARD TREATMENT** | Halloween 1994 |
| **OPERATION PERIOD** | Stump/Fall 1993 |

**ELEVATION**

| **Elevation** | 3600 - 3800 |

**SHAPE OF UNIT AND PATTERN OF TRANSECT**
| **DATE** | July 10, 1991 |
| **OBSEVER** | Libby |
| **DISTRICT** | Libby |
| **SALE/S.A.** | Rainy Creek |
| **Unit #** | 2 |
| **H.T.** | .3D/.cum |
| **Slope** | 35 - 55% |
| **Location** | lower slope |
| **COMPACATION (Heavy)** | Walk-Through |
| **COMPACATION (Light)** | |
| **UNDISTURBED** | |
| **DISPLACED** | |
| **EXCAVATED SKID TRAIL** | |
| **SMZ/ROCK** | |
| **COMMENTS** (Include soil, geology, organic debris, other pertinent info) | Area has been logged in the past. Excavated trails were in existence and were erosive from soil disturbance standpoint. Should probably have been left logged. |
| **SHAPE OF UNIT AND PATTERN OF TRANSECT** | |

**COMPACATION (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.

**COMPACATION (Light)** - Any other area not included in heavy COMPACATION 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.
**COOTENAI NATIONAL FOREST**

**SOIL DISTURBANCE MONITORING FORM**

<table>
<thead>
<tr>
<th>DATE</th>
<th>07/11/1991</th>
<th>CUTTING METHOD</th>
<th>Land</th>
</tr>
</thead>
<tbody>
<tr>
<td>OBSERVER</td>
<td>Buchanan, Church</td>
<td>SKIDDING METHOD</td>
<td>Tractor</td>
</tr>
<tr>
<td>DISTRICT</td>
<td>Three Rivers</td>
<td>If tractor:</td>
<td>dispersed</td>
</tr>
<tr>
<td>SALE/S.A.</td>
<td>Three Rivers Resale</td>
<td>HAZARD TREATMENT</td>
<td>dedicated</td>
</tr>
<tr>
<td>Unit #</td>
<td>7</td>
<td>SILVICULTURAL TRMT</td>
<td>CC</td>
</tr>
<tr>
<td>H.T.</td>
<td>WC, class</td>
<td>OPERATION PERIOD</td>
<td></td>
</tr>
<tr>
<td>Slope</td>
<td>10-30%</td>
<td>Aspect</td>
<td>Southwest</td>
</tr>
<tr>
<td>Location</td>
<td>mid</td>
<td>Elevation</td>
<td>2680-2800</td>
</tr>
</tbody>
</table>

**COMPACATION (Heavy)**

- walk-through

**COMPACATION (Light)**

**UNDISTURBED**

**DISPLACED**

**EXCAVATED SKID TRAIL**

**SMZ/ROCK**

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

Both a maintenance and cutting were in progress.
Poor logging - no thorough recollection of the wetland areas.
Cured the blind end and avoided cutting during the wetting period.

**SHADE OF UNIT AND PATTERN OF TRANSECT**

**COMPACATION (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.

**COMPACATION (Light)** - Any other area not included in heavy COMPACATION 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.
KOOTENAI NATIONAL FOREST
SOIL DISTURBANCE MONITORING FORM

DATE: July 11, 1991

CUTTING METHOD: hand

SKIDING METHOD: dispersed
dedicated

HAZARD TREATMENT: Seed food
SILVICULTURAL TRMT: Green sale

OPERATION PERIOD: northern

Slope: 45-60

Location: upper

Elevation: 3040 - 3280

COMPACTION (Heavy): Walk-through

COMPACTION (Light)

UNDISTURBED

DISPLACED

EXCAVATED SKID TRAIL

SMZ/ROCK

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

No mudding or freezing, a lot of displacement in consideration of vegetation and skid trails (5-10") completely, as in other parts of
ary, Potential for erosion. There was too much rock. Displace up the skidline consider, but these are confined to less than 1/8 of unit. Good growing site.

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.

10/99
KOOTENAI NATIONAL FOREST
SOIL DISTURBANCE DATA FORM

DATE 8/13/91
CUTTING METHOD clipper

SKIDDING METHOD RTS
HAZARD ABATEMENT Grapple-piling

SALE Spring Clearance F.S.
UNIT No. 2
72A

SILVICULTURAL CC 1/2 Reserve

OPERATION PERIOD summer 1990

COMPACTION (Heavy) walk-through

COMPACTION (Light)

UNDISTURBED

DISPLACED

EXCAVATED SKID TRAIL

SMZ/ROCK

COMMENTS

Unit 2: 7902003-72A-15-30' slope Ene-3100-5500';
N aspect; H.T. 625; burned lands + grapple pile 1992

LDS, STZ adjacent to W edge of unit

Shape of Unit and Pattern of Transect

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

DATE  8/13/91

CUTTING METHOD  clipper

SKIDDING METHOD  RTS

HAZARD ABATEMENT  

SILVICULTURAL  CC

OPERATION PERIOD  Summer 1990

COMPACTION (Heavy) 

Walk-Through

COMPACTION (Light) 

UNDISTURBED 

DISPLACED 

EXCAVATED SKID TRAIL 

SMZ/ROCK 

COMMENTS 

Unit 2: 57902083 - 9A  57903082  10A  57903087 - 21A; 5-20% slope; CLA 4900-5300'; Net area w/ some S- SW. H.T.: 625 - 663;

Special Treatment zone along firebreak, LDS

Shape of Unit and Pattern of Transect

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

DATE 8/13/91

CUTTING METHOD clipper

SKIDDING METHOD KTS/dozer

HAZARD ABATEMENT

SILVICULTURAL CC

OPERATION PERIOD summer 1989

COMPACTION (Heavy) Walk-Through

COMPACTION (Light)

UNDISTURBED

DISPLACED

EXCAVATED SKID TRAIL

SMZ/ROCK

COMMENTS

Unit 3: 214; 10-20% slope; El. 5500'; aspect: H.T. - 670; burned landing 1990

Protected streamcourse in NW portion of unit, LDS

Shape of Unit and Pattern of Transect

Part of 1988 Dry Fork Fire
DATE 9.18.91

CUTTING METHOD CLIPPER

SKIDDING METHOD RT5

HAZARD ABATEMENT ___________

SILVICULTURAL LTM-1+1A

OPERATION PERIOD Summer 1989

Walk-through

COMPACTION (Heavy) ___________

COMPACTION (Light) ___________

UNDISTURBED ___________

DISPLACED ___________

EXCAVATED SKID TRAIL ___________

SMZ/ROCK ___________

COMMENTS Unit 1 & 1A: 25-35% slope; Ele 3700-4300'; W-SW aspect; H.T. 328

Leave dead standing in units

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

DATE 9/18/91

CUTTING METHOD: Clipper
SKIDDING METHOD: RTS
HAZARD ABATEMENT: Dozer pile portions of 3 & 4

COMPACTATION (Heavy)

OPERATION PERIOD: Dec '88 - Feb '89

UNIT NO.: 1, 2, 3, 4

9/18/1991
Fisher River - Frustration Fire Salvage
Unit 1, 3 & 4

09/18/1991
Fisher River - Frustration Fire Salvage
Unit 1, 3 & 4

UNIT NO.: 1, 2, 3, 4

SILVICULTURAL 1-CC w/ST, 3-4-CC

OPERATION PERIOD: Dec '88 - Feb '89

UNIT NO.: 1, 2, 3, 4

SMZ/ROCK

COMMENTS:
Unit 1: 10-25% slope; Ele -5200-5400'; 5-SE aspect; H.T. - 625
Unit 3: 10-20% slope; Ele -5000-5100'; 3 aspect; H.T. - 620
Unit 4: 10-20% slope; Ele -5000-5200'; E-NE aspect; H.T. - 625

Shape of Unit and Pattern of Transect

Part of Aug 1988 Dry Fork Fire

Special Treatment zone between unit 3 + 4
Dozer pile portions of Units 3 + 4
DATE: 9/18/91

CUTTING METHOD: Clipper

SKIDDING METHOD: RTS

HAZARD ABATEMENT: Grupped - 3, burn landing

SILVICULTURAL: LTM - 1, 4, 5, CC - 3

OPERATION PERIOD: Dec. 90, Jan-Feb. 91

EXCAVATED SKID TRAIL: Walk-through

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

DATE 9/18/91     CUTTING METHOD  clipper

OBSERVER        SKIDDING METHOD  RTS

DISTRICT        HAZARD ABATEMENT  gapplepile 1 & 3

SALE           SILVICULTURAL  LTM-1, CC-3

Unit No.       OPERATION PERIOD  WALK-THROUGHS

COMPACTION (Heavy)

COMPACTION (Light)

UNDISTURBED

DISPLACED

EXCAVATED SKID TRAIL

SMZ/ROCK

COMMENTS

Unit 1: 15-25% slope; Ele -4950-4950; E aspect; HiT: -620; LDS

Unit 3: 15-30% slope; Ele -4300-4500; W-NW aspect; HiT: -621

LDS in Unit 3; Protected Stream comes along SW edge of Unit 3

Shape of Unit and Pattern of Transect

Part of Aug 1988 Dry Fork Fire

09/18/1991
Fisher River - Green Burnt Fire Salvage
Unit 1 & 3
55907063  55907036
ACTION (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.

COMPACTED (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.
SOIL DISTURBANCE MONITORING FORM

DATE: Sept. 1, 1991

OBSERVER: Kuenen

CUTTING METHOD: Clipper/Decimber

SKIDDING METHOD: If tractor: dispersed dedicated

FORT: Blessed Ridge

HAZARD TREATMENT: BB, WI, tractor probability

UNIT #: 344 5-57

SILVICULTURAL TRMT.: August 1991

H.T.: 7

OPERATION PERIOD: 7/1991

ACRES: 10

Slope: 25-30

Aspect: W

Elevation: 1,380

LOCATION: Fall River

COMPACTION (Heavy): Walk Through

COMPACTION (Light): UNDISTURBED

UNDISTURBED

DISPLACED

EXCAVATED SKID TRAIL

SMZ/ROCK

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

No fighting; some displacement and compaction in skid trails and log bunks and landings; soil profile: crumbly loam; good 4-8" deep sandy surface.

SHAPE OF UNIT AND PATTERN OF TRANSECT

COMPACTION (Heavy): Any place where future vegetative growth will be significantly impacted, i.e., skid trails (both willy 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.

10/99

09/24/1991
Fortune - Blessed Ridge
Unit 7 34405057
<table>
<thead>
<tr>
<th>Transect</th>
<th>Transect</th>
<th>Transect</th>
<th>Transect</th>
<th>Transect</th>
<th>Transect</th>
<th>TOTALS</th>
</tr>
</thead>
<tbody>
<tr>
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</tr>
<tr>
<td>Dist.</td>
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<td>DIST.</td>
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</tr>
<tr>
<td>TOTALS</td>
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<td>Pts.</td>
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<td>Pts.</td>
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<td></td>
</tr>
<tr>
<td>HEAVY</td>
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<td></td>
</tr>
<tr>
<td>LIGHT</td>
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<tr>
<td>UNDISTURB</td>
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<td></td>
</tr>
<tr>
<td>BURNT</td>
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<td></td>
</tr>
<tr>
<td>DISPLACED</td>
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<td></td>
</tr>
<tr>
<td>EROSION</td>
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</tr>
<tr>
<td>PUDDLED</td>
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<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>SMZ</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>ROCK</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BURN PILES</td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>
KOOTENAI NATIONAL FOREST
SOIL DISTURBANCE MONITORING FORM

DATE: Sept. 25, 1991
ONERVER: Rhemnim
DISTRICT: Fortine
SALE/S.A.: Blessed Ridge
Unit #: 10
Acre #: 54
H.T.: 663
Slope: 25-30°
Location: (Undisturbed)

CUTTING METHOD: Sweat/Ductile
SKIDDING METHOD: If tractor: dispersed dedicated
HAZARD TREATMENT: 933
SILVICULTURAL TRMT: Leased
OPERATION PERIOD: 2/19/91

HAZARD TREATMENT: 933
HAZARD TREATMENT: Leased

COMPACTON (Heavy): Walk-through

COMPACTON (Light): 

UNDISTURBED:

DISPLACED:

EXCAVATED SKID TRAIL:

SMZ/ROCK:

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

Operations started too early in spring; some puddling and displacement on all go-back trails. Due to limited
operations, some trails were not compacted. Displacement
occurred in the form of mounding. Waterlogging occurred in
some places. Operations started too early. Overall expert
water drainage impacted more than necessary.

SHAPE OF UNIT AND PATTERN OF TRANSECT

COMPACTON (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.

COMPACTON (Light): Any other area not included in heavy COMPACTON 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.
KOOTENAI NATIONAL FOREST
SOIL DISTURBANCE MONITORING FORM

DATE: Sept 25, 1991

CUTTING METHOD: chipper/disk

SKIDDING METHOD: dispersed/dedicated

HAZARD TREATMENT: F&B of tractor tracks

SILVICULTURAL TRM: remote


LOCATION: Fortine - Blessed Ridge

H.T.: 463

Slope: 25-30

UNDISTURBED

DISPLACED

EXCAVATED SKID TRAIL

SMZ/ROCK

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.

COMMENTS (Include soil, geology, organic debris, other pertinent info): No puddling, some displacement, especially on go-back, occasional high contours near ridge tops. Soil texture was good, 4-6" inch dark rich surface.

SHAPE OF UNIT AND PATTERN OF TRANSECT

Fortine - Blessed Ridge
Unit 16
34501034

09/25/1991
### Kootenai National Forest

**Soil Disturbance Monitoring Form**

<table>
<thead>
<tr>
<th>Date</th>
<th>Dec. 3, 1991</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cutting Method</td>
<td>clipped, processed at stump</td>
</tr>
<tr>
<td>Skidding Method</td>
<td>dispersed, dedicated</td>
</tr>
<tr>
<td>Cutting Practice</td>
<td></td>
</tr>
<tr>
<td>Location</td>
<td>mid-upper</td>
</tr>
<tr>
<td>Action (Heavy)</td>
<td>Walk-through</td>
</tr>
<tr>
<td>Action (Light)</td>
<td></td>
</tr>
<tr>
<td>Disturbed</td>
<td>No signs of any machinery or skidding activity.</td>
</tr>
<tr>
<td>Displaced</td>
<td></td>
</tr>
<tr>
<td>Excavated Skid Trail</td>
<td></td>
</tr>
<tr>
<td>SMZ/Rock</td>
<td></td>
</tr>
<tr>
<td>Comments</td>
<td>No puddles, some displacement in main skid trail &amp; landing. A severe landslide had occurred on old roads built in 1970. Very large snow deposits. Soil frozen in trail, but not in adjacent area. One 2' of snow during most of operation.</td>
</tr>
</tbody>
</table>

#### Notes

- **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.