09/12/2002

KOOTENAI NATIONAL FOREST

Rexford - Parsnip Lodgepos OIL DISTURBANCE MONITORING FORM
Unit 9 13002137

REXFORD RANGER DISTRICT 9/12/02

| Sale: Parsnip LP Unit: 9 Acres: 9 Observers: Kindel Furniss Henion Date of Harvest: 12001 | Date: <u> </u> |
|---|----------------|
| Silvicultural Treatment: Seed tree 13 reserves Cutting Method: Skidding Method: Dispersed? X Dedicate Season of Operation: Summer Fuels Treatment: Understong bur | d? |
| Unit Location (Rd. #, etc.): <u>@ 4874</u> 733 & 30 s 1 & 29 5 6 Drainage: Habitat Type: Slope: 40 90 Aspect: | Parsnip S |

| | , | | | |
|----------------------|---|--|-------|----------------------|
| DESCRIPTION | TRANSECT POINTS | TOTALS | TOTAL | % |
| HEAVY DISTURBANCE | 1. <u>风</u> · 2. <u>风</u> · 3. <u>风</u> · · · | 1. 11 2. 12 3. 14 4. | 37 | 9 7 set |
| LIGHT DISTURBANCE | 1. <u>风色区区区区区区</u> 2. <u>区区区区区区区区区区区区区区区区区区区区区区区区区区区区区区区区区区区区</u> | 1. <u>86</u> 2. <u>108</u> 3. <u>177</u> 4. | 371 | 83 88 89 99 |
| NDISTURBED | 1. · 2. · 3. × 4. | 1 | 10 | 2 2 3 |
| SMZ/BEDROCK | 1. 2. 3. 4. | 1. 4 10 2 3 4. | 418 | |

| UNIT SHAPE & TRANSECT PATTERNS: | ADDITIONAL COMMENTS: |
|---------------------------------|--|
| UNIT SHAPE & TRANSECT PATTERNS: | ADDITIONAL COMMENTS: Disturbence higher than expected due to being a narrow unit and having an executed (rehabled) skill trail. Very little of the heavy disturbence was compaction due to rackey soils. The majority of heavy disturbance was displacement (executed trail) with a little pile burn damage. Because the soil and water standards consider rehabled trails as not being disturbed, this survey accrestimates the soil damage as empared to the 17% standard. |
| | the 15% standard. |
| | UNIT SHAPE & TRANSECT PATTERNS: |

09/26/2002 Rexford - Upper Boulder Unit 6

10803055

KOOTENAI NATIONAL FOREST SOIL DISTURBANCE MONITORING FORM

| DATE OBSERVER LICENSE TO SKIDDING METHOD CLIMING METHOD DISTRICT SALESA USER BULLET HAZARD TREATMENT SILVICULTURAL TRMT OPERATION PERIOD SOPE 5 D ASPECT SOCIETY OF SALESA USER SALESA USE | $\sim \sim \sim \sim$ | | | |
|--|---------------------------------|--|---|--|
| OBSERVER Accounts (in cliff file of the property of the proper | DATE 9.26.02 | CUTTING METHOD | Clipper / han | d |
| DISTRICT SALE/S.A. WHEN SHAPE HAZARD TREATMENT Unit # 6 Acres 3.9 SILVICULTURAL TRMT H.T. SAF HIS. / a > C OPERATION PERIOD Slope 5.5 Aspect S < S > C S C S C C C C C C C C C C C C C C | | 2/1/20 SKIDDING METHOD | Forwarder | |
| SALESA. Unit # (2 Acres 3.7 SILVICULTURAL TRIMENT SID Acres 3.7 SILVICULTURAL TRIMENT SILVICULTURAL TRIMEN | DISTRICT R. Lord | | dispersed | dedicated X |
| Unit # 1/2 Ages 3.9 SILVICULTURAL TRMT OPERATION PERIOD SEPT + O.7 () Slope 5.50 Aspect S. (S S.) Location | SALE/S.A. Widen Builder | HAZARD TREATMEN | | |
| Sope 5-20 Aspect 5 (56-30) Location Loc | U TUIC L | | | |
| Slope 5-30 Location (Location (Locat | | | | A Committee of the Comm |
| Location Loc | | - ii ii | 158-1840 | |
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| PAST ACTIVITY COMPACTION (Light) MEMBER 19 19 19 19 19 19 19 19 19 19 19 19 19 | | | | |
| COMPACTION (Light) Compaction (Light) | | | | |
| COMPACTION (Light) Compaction (Light) | PAST ACTIVITY | erra mantan and a same | 49 38 | |
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| UNDISPLACED 13 DISPLACED 1. 13 EXCAVATED SKID TRAIL SMZ/ROCK 1 | | 20 | a de la Paga e da Paga Salta G | 771 |
| DISPLACED: 1 2 2 3 SMZ/ROCK (\$ 2 2 5 COMMENTS (Include soil, geology, organic debris-large & small, erosion, road drainage, other pertinent info) | UNIDERTHOUSE SERVICE ME | | والمناسب بالمراسب | |
| DISPLACED : : : : : : : : : : : : : : : : : : : | CHURCHOLD BY DIVING WAY | KNSARRONARK | | $\mathbf{A} = \mathbf{A} + $ |
| EXCAVATED SKID TRAIL D 2 3 SMZ/ROCK () : COMMENTS (Include soil, geology, organic debris-large & small, erosion, road drainage, other pertinent info) | <u> 2488882.</u> 13 | | | |
| EXCAVATED SKID TRAIL D 2 3 SMZ/ROCK () : COMMENTS (Include soil, geology, organic debris-large & small, erosion, road drainage, other pertinent info) | SIGNIAGES 2. C.S. | | 154 174 34 740 A. J. J. J. S. | |
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| SMZ/ROCKS. :. COMMENTS (Include soil, geology, organic debris-large & small, erosion, road drainage, other pertinent into) | | | | |
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| | ~SMZ/ROCK∫; ₹ | | | |
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| | 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. <u>UNDISTURBED</u> - No signs of any machinery or skidding acitvity.

DISPLACED - Any place soil has been mounded by machinery, also include in heavy or light compaction. SM7/ROCK/RITEM PILE - Include within transact if within harvest unit

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| | Pts. | % | Pts. | % | Pts. | % | Pts. | % | Pts. | % | Pts. | % |
| D HEAVY | 10 | 5 | 8 | M | 9 | 5 | | | | | 27 | 4 |
| s LIGHT t | 61 | 32 | 69 | 28 | 88 | 52 | | | | a digadena jihi digadena jihi | 218 | 36 |
| u UNDISTURB | 119 | 63 | 17/ | 69 | 13 | 43 | | | | | 363 | 60 |
| b PAST ACTIVITY | - | | | | = - | | | | | | مند مند | |
| TOTALS | 190 | 100. | 248 | 100 | 170 | 100 | 14.70 A.C. 10. 28.60 | | | 4.赞 | 608 | 100 |
| DISPLACED | 2 | ale i distribi | eki /e | MARKET AND MARK TO SA | <i>.</i> # | # > | Treat | e a ce der ta n | a vizioni. | 100 | $i\mathcal{J}_{i}$ | * / _ |
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| BURN PILES | | | | | | | | | | | en (a | |

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1 1 240 10

KOOTENAI NATIONAL FOREST SOIL DISTURBANCE MONITORING FORM

| DATE 9,26.02 | CUTTING METHOD | depper/has | rd |
|---|---|--|--|
| OBSERVER Jennen Kindel | SKIDDING METHOD | 11 / RTS | |
| DISTRICT Persons | If tractor: | disperséd | dedicated X |
| SALE/S.A. U per Builden Unit # All Acres 39 | HAZARD TREATMENT SILVICULTURAL TRM | | IBB full 20tes |
| H.T. SAFIATATIVASC | OPERATION PERIOD | | |
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| PAST ACTIVITY | | 190 | |
| COMPACTION (Light) MENDED | A D D D D D D D D D D D D D D D D D D D | e en au dia e | ENGLISH STORMS |
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| DISPLACED | | 3.00 | |
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| SMZ/ROCK LLS ? | | | |
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| COMMENTS (Include soil, geology, or | ganic debris-large & small, er | osion, road drainage, | other pertinent info) |
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<u>COMPACTION (Heavy)</u> - 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. <u>COMPACTION (Light)</u> - Any other area not included in heavy COMPACTION or UNDISTURBED. <u>UNDISTURBED</u>.

DISPLACED - Any place soil has been mounded by machinery, also include in heavy or light compaction.

SM7/ROCK/RHIRN PILE - Include within transport if within harvest unit

| | | | | _TRANS | | JMMARY | FORM | | | | | |
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| | Transec | 1 | Transec | | Transe | | Transe | | Transec | | | ALS % |
| · | Pts. | % | Pts. | % | Pts. | % | Pts. | % | Pts. | % | Pts. | |
| D HEAVY | 45 | 10 | 44 | 10 | 44 | 22 | | · | | | 133 | 12.5 |
| s LIGHT t | 180 | 42 | 165 | 38 | 68 | 34 | | | , 10 m (1) | | 413 | 39 |
| u UNDISTURB r | 205 | 48 | 222 | 52 | 88 | 44 | | | | | 515 | 48.5 |
| b PAST ACTIVITY | | - | | | | | | | | |) | |
| TOTALS | 430 | 100 | 431 | 100 | 200 | 100 | | 35.6 | | and the second second | 1061 | 100 |
| DISPLACED | 1 - U | en diperio | * 5 | San Pares | *4. | 2 | TANKS TRIPE | 19 45 19 4 V | | F-7000018 | 1/3 | l^*l |
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| PUDDLED | | | | | | | | | | | | |
| SMZ | | | | | | | | | | | | |
| ROCK | 6 | | - | - | | | | | | | | |
| BURN PILES | | | | | | | | | | | | |

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09/27/2002 Rexford - East Sutton Unit 57

KOOTENAI NATIONAL FOREST SOIL DISTURBANCE MONITORING FORM

REXFORD RANGER DISTRICT 9/27/02

| Sale: East Sotton Unit: 57 Acres: Observers: Kindel Furaiss | 8 Date: 9-22-02 |
|--|-----------------|
| Date of Harvest: 200 Silvicultural Treatment: LTM (Skidding Method: Tractor Season of Operation: Winter Unit Location (Rd. #, etc.): 7301 Habitat Type: 732 Slope: 30 Aspec | Drainage: SwHon |

| DESCRIPTION | TRANSECT POINTS | TOTALS | TOTAL | % |
|----------------------|---|-------------------------------------|-------|-----|
| HEAVY DISTURBANCE | 1. \(\sigma \) 2. \(\sigma \) 3. \(\lambda \) 4. \(\lambda \) | 1. <u>9</u> 2. <u>8</u> 3 | 17 | 3 |
| LIGHT DISTURBANCE | 1. A B A D R A B B B B B B B B B B B B B B B B B B | 1. <u>133</u> 2. <u>203</u> 3 | 386 | 65 |
| NDISTURBED | 1. <u>名 </u> | 1. 100 2. 78 3 | 178 | 30 |
| SMZ/BEDROCK | 1. 1: 2. :: 3 | 1. <u>5</u> 2. <u>4</u> 3 | 9 | ٦ |
| CUMULATIVE | TALLY FOR ALL POINTS AND PERCENTAGES → | 590 | 5901 | 100 |

| UNIT SHAPE & TRANSECT PATTERNS: | ADDITIONAL COMMENTS: |
|---------------------------------|---|
| 7301 | Very rocky soils. skidding dispersed- no main trails. unit Isolar good. Finding veretated over most of disturbed. area The majority of the heavy litrisoner was displacement from the Freine. |

08/01/2002 Fortine - Pinkham Ridge Unit 4

33002126 33002126

SOIL DISTURBANCE MONITORING FORM

| DATE 8.1.2002 | CUTTING METHOD | clipper | |
|--|--|---|--|
| OBSERVER Kuennen | SKIDDING METHOD | RT | <u> </u> |
| DISTRICT Forting | If tractor: | dispersed | dedicated |
| SALE/S.A. Pinkham R | I Age HAZARD TREATMENT | | |
| Unit # 4 Acres 23 | SILVICULTURAL TRMT | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | $\mathbf{H}_{\mathbf{U}}\mathbf{K}$ - $\mathbf{U}\mathbf{F},\mathbf{L}_{\mathbf{J}''}$ |
| H.T. DF/LIBO | OPERATION PERIOD | <u> </u> | mmer |
| | 5-15 Aspect Most | y E - NE | |
| Location mido | (a) Elevation (b) |) त्री <i>भागाच्या । ८४</i> | |
| COMPACTION (Heavy) 💆 💆 🗷 | MEDLES AU ES | INDAL: 38 | <u> </u> |
| 0 0 | 3 <u> </u> | | |
| PAST ACTIVITY 1 20 21 32 | 1 - Shinkeling William | of of children | E-1-7571 |
| COMPACTION (Light) 42 8 8 | IXXXXXXXXXXXXXX | X X X X X X X | MAN SE |
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| EXCAVATED SKID TRAIL | | | KAN |
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| SUZROCK MAN MAN | X 31 | <u> </u> | |
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| EQMMENTS (Include soil, geolog | y/organic debris-large & smail; ero | sion, road dramag | e, other pertinent into) |
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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 acitvity.

DISPLACED - Any place soil has been mounded by machinery, also include in heavy or light compaction.

SM7/ROCK/RIJAN DILE - Include within transact if within harvest unit

| ſ | - | | Transec | t 2 | Transec | t 3 | Transe | ct 4 | Transec | | TOT | |
|--------------------|------------------|-----|---------|-----|---------|-----|--------|---------|---------|-------------|-----------|----------|
| } | Transect Pts. | % | Pts. | % | Pts. | % | Pts. | %_ | Pts. | % | Pts. | <u>%</u> |
| D HEAVY | 30 | 6 | 15 | 4 | 17 | 8_ | 46 | 7 | 6 | 6_ | | |
| s LIGHT | 245 | 50 | 169 | 50 | 76 | 34_ | 364 | 53 | 50 | 46 | | |
| u UNDISTURB | 205 | 42 | 138 | 41 | 127 | 56 | 280 | 40 | 50 | 46 | | |
| b PAST ACTIVITY | 8 | 2 | 217 | 5 | 5 | 2 | 2 | 41 | 3 | 2 | - 4× | |
| TOTALS | 498 | 100 | 337 | 100 | 225 | 100 | 692 | 100 | 109 | 100 | | |
| DISPLACED | 5 | 1 | 3 | 1 | 3 | | | 20 20 X | 35 | - · · · · · | | |
| EROSION | | | | | | | | | | | | - |
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| SMZ | | | | | 70 | 31 | | | | 4.7 | | |
| ROCK | | | | | | , | | 2.7 | | | | |
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TRANSECT SUMMARY FORM

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Combining current + past Letrimental disturbance equals atobal of 8% for this activity area!

08/01/2002 Fortine - Pinkham Ridge Unit 5 33001107

33001107

SOIL DISTURBANCE MONITORING FORM

| OBSERVER DISTRICT DISTRICT SALESA. Acres: HAZARD TREATMENT SILVICULTURAL TRMT H.T. DF/Libo DF/Carm OPERATION PERIOD Slope Location Locatio | DATE Aug. 1, 2002 | CUTTING METHOD | clipper | |
|--|--|--|--|--|
| HAZARD TREATMENT Unit # SACIES 14 SILVICULTURAL TRMT H.T. DF/Libo DF/Cru OPERATION PERIOD Slope S-12 Aspect 1 Mother COMPACTION (Heavy) D 25 Elevation 1 3/000 PAST ACTIVITY COMPACTION Light DEAD DEAD DEAD DEAD DEAD DEAD DEAD DEA | / // // / / / / / / / / / / / / / / / / | | KT | 5 |
| Unit # Acres H SILVICULTURAL TRMT TM H.T. DF Libo DF Libo OPERATION PERIOD Slope Separation Aspect Market Elevation 3600 COMPACTION (Heavy) DF Libo PAST ACTIVITY COMPACTION (Light) DIAMAN | I V DOV TO | | | dedicated X |
| H.T. DF/Libb DF/Crum OPERATION PERIOD Aspect Modify ENE Location Mode December D | | | | esing Ol |
| Slope Location Jumes 0 25 Elevation 3/40 COMPACTION (Heavy) | the state of the s | | LIM | |
| Location wer 25 Elevation 3600 COMPACTION (Heavy) D. 20 PAST ACTIVITY COMPACTION (Light) D. D. D. D. D. D. D. D | X / / / | | 2. (0 | |
| COMPACTION (Heavy) DEL PAST ACTIVITY COMPACTION (Light) DEL | | | | |
| PAST ACTIVITY COMPACTION (Light) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | Location lower o 25 | Elevation I 3601 | 2 | |
| PAST ACTIVITY COMPACTION (Light) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | COMPACTION (Heavy) | and the second s | | |
| COMPACTION (Light) AND | | <u> </u> | | |
| UNDISTURBED AND AND AND AND AND AND AND AND AND AN | PAST ACTIVITY | erasperado de | <i>तल होते</i> छ | त्रवर्गन त्राच्य २८० |
| DISPERCED EXCAVATED SKID TRAIL SMZ/ROCK COMMENTS (include soil, geology, organic debris-large & small, erosion, road drainage, other pertinent info) SMZ-gf | COMPACTION (Light) XIXIX X | XXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXX | | M N N N N N N N N N N N N N N N N N N N |
| DISPEACED EXCAVATED SKID TRAIL SMZ/ROCK COMMENTS (Include soil, geology, organic debris-large & small, erosion, road drainage, other pertinent info) (and that it is fineline excent or facility will be for a fineline to the pertinent info) Sixt - glastical full w/6 and; LT 323 | _a Mananananananan | | | The second secon |
| DISPEACED EXCAVATED SKID TRAIL SMZ/ROCK COMMENTS (Include soil, geology, organic debris-large & small, erosion, road drainage, other pertinent info) (and that it is fineline excent or facility will be for a fineline to the pertinent info) Sixt - glastical full w/6 and; LT 323 | THEREUSER WANTED | च वचर च ष ष ष राष स | KZKA 195 | Name to the second sec |
| EXCAVATED SKID TRAIL SMZ/ROCK COMMENTS (Include soil, geology, organic debris-large & small, erosion, road drainage, other pertinent info) Send Los Ling Full sure a grand to full wilth Sur- gland full w/s and j LT 323 | G AND DESCRIPTION OF THE PROPERTY OF THE PROPE | <u>XXXXXXXXXXXXXXX</u> | | |
| EXCAVATED SKID TRAIL SMZ/ROCK COMMENTS (Include soil, geology, organic debris-large & small, erosion, road drainage, other pertinent info) Section of the pertinent of the second of the pertinent info) Section of the pertinent of the second of the pertinent info) Section of the pertinent of the second of the pertinent info) Section of the pertinent of the second of the pertinent info) Section of the pertinent of the second of the pertinent info) Section of the pertinent of the second of the pertinent info) Section of the pertinent of the second of the pertinent info) Section of the pertinent of the second of the pertinent info) Section of the pertinent of the second of the pertinent info) Section of the pertinent of the second of the pertinent of the | O DEPARTMENT OF THE PROPERTY O | AUXI. IOT | | |
| EXCAVATED SKID TRAIL SMZ/ROCK COMMENTS (Include soil, geology, organic debris-large & small, erosion, road drainage, other pertinent info) Section of the pertinent of the second of the pertinent info) Section of the pertinent of the second of the pertinent info) Section of the pertinent of the second of the pertinent info) Section of the pertinent of the second of the pertinent info) Section of the pertinent of the second of the pertinent info) Section of the pertinent of the second of the pertinent info) Section of the pertinent of the second of the pertinent info) Section of the pertinent of the second of the pertinent info) Section of the pertinent of the second of the pertinent info) Section of the pertinent of the second of the pertinent of the | DISPLACED I | | | |
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| SMZ/ROCK COMMENTS (Include soil, geology, organic debris-large & small, erosion, road drainage, other pertinent info) Good County Full receive a grant of furth with SW = glant glant full w/6 ast; LT 323 | EVCAVATED SKID TRAIL | | | A PARTICIPATE COLLEGICATION DE LA COLLEGICA DE |
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| Soil- ghour foliaine of construction that the soil of the foliain full w/6 ast, LT 323 | COMMENTS (Include soil geology or | ganic debris-large & small ero | sion road drainac | e other pertinent info) |
| SW- glade planted till w/s and; LT 323 | al faction billion | 6 - F 1 - 0 - 1 | 111 | |
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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.

<u>UNDISTURBED</u> - No signs of any machinery or skidding acitvity.

DISPLACED - Any place soil has been mounded by machinery, also include in heavy or light compaction.

| | Transect | 1 | Transec | t 2 | Transe | ct 3 | Transe | ct 4 | Transec | | TOT | |
|--------------------|----------|---|-----------------|-----|-----------------------|------------|--------------|---------|---|-----------------|--------------------|----------|
| | Pts. | % | Pts. | % | Pts. | % | Pts. | % | Pts. | % | Pts. | % |
| D HEAVY | 25 | 3 | 20 | 5 | | | | | | | 45 | 5 |
| s LIGHT | 280 | 56 | 216 | 51 | | | | | | | 496 | 54 |
| u UNDISTURB | 195 | 39 | 184 | 44 | | T N Gala | | 41. | 1 (4) (4) (4) (4) (4) (4) (4) (4) (4) (4) | | 379 | 41 |
| b PAST ACTIVITY | | 14 <u>20 20 20 2</u> 0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | · | | | | | | | | r Terresingsynd | · / |
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07/26/2002 Fortine - Timber Lake Unit 1 32006064

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KOOTENAI NATIONAL FOREST SOIL DISTURBANCE MONITORING FORM

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| DISTRICT Forting / If tra | ING METHOD | | RTS | |
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| PAST ACTIVITY | | 2 | 145 | 3 191 |
| COMPACTION (Light) (NARREN DA | FS (NIM NIM | N Star ort | | A Et as as to be |
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| EXCAVATED SKID TRAIL | | | | |
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| SMZ/ROCK | - | | | |
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| COMMENTS (Include soil, geology, organic debris-l | arge & small, eros | ion, road drain | age, other pertinent in | fo) |
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OMPACTION (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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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

| ſ | Transect | 1 | Transect | t 2 | Transect | | Transec | | Transect | | TOT | |
|--------------------|----------|-----|-------------|-----|-------------|-----|---------|----|----------|---|------|------|
| | Pts. | % | Pts. | % | Pts. | % | Pts. | % | Pts. | % | Pts. | % |
| D HEAVY | 33 | 17 | 32 | 11 | 42 | 13 | 46 | 18 | | | 153 | 14.5 |
| s LIGHT t | 93 | 47 | 145 | 51 | 171 | 54 | 132 | 52 | | | 541 | 51, |
| u UNDISTURB r | 70 | 36 | 108 | 38 | 103 | 33 | 74 | 30 | | | 355 | 34 |
| b PAST ACTIVITY | | | | | | | | | | | | |
| TOTALS | 196 | 100 | 285 | 100 | 316 | 100 | 252 | , | | | 1049 | 100 |
| DISPLACED | 4 | 2, | 9 | 3 | 1 | 41_ | 1 | 41 | | | 15 | |
| EROSION | | | | | | | | | | | | |
| PUDDLED | | | | | | | | | | | | |
| SMZ | | | | | | | | | | | | |
| ROCK | | | | | | | | | | | | |
| BURN PILES | | | | | | | | | | | | |
| 1 | | | | | | | · | | | | | - 1 |

07/26/2002 Fortine - Timber Lake Unit 7 32101149

KOOTENAI NATIONAL FOREST SOIL DISTURBANCE MONITORING FORM

| DATE OBSERVER Author Coff SKIDDING METHOD DISTRICT Fortung SKIDDING METHOD Unit # 1 Acres 20 SILVICULTURAL TRMT H.T. 250 OPERATION PERIOD Slope 5 93 40 Aspect NE Location Lower 30 Elevation 3/50 - 3300 COMPACTION (Heavy) R R R R R R R R R R R R R R R R R R R | |
|--|---|
| PAST ACTIVITY 127 52 COMPACTION (Light) MMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMM | |
| 19 102 | _ |
| UNDISTURBED BERNEN BERN | |
| 3 4 | _ |
| DISPLACED | |
| EXCAVATED SKID TRAIL | |
| SMZ(ROCK) * \$ * \$ | |
| COMMENTS (Include soil, geology, organic debris-large & small, erosion, road drainage, other pertinent info) | |
| Jacial till Wort bess. | |
| Excessively wide a distribet fireline - dozenline? Excavatore bucket width is sufficient | 1 |
| Steep-sided ridge underlain by BRX. in 5-central forting wint. | |
| | |
| Clipper - hand field on steep pretions. No rutted teachs noted! | |
| | |
| | |
| SHAPE OF UNIT AND PATTERN OF TRANSECT | |
| to Alkali | |
| landing | |
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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 acitvity.

<u>DISPLACED</u> - Any place soil has been mounded by machinery, also include in heavy or light compaction.

SMZ/ROCK/RURN PILE - Include within transect if within harvest unit

| | Transect | 1 | Transec | t 2 | Transect | 3 | Transe | ct 4 | Transec | | TOT | |
|--------------------|----------|---------|---------|----------|----------|-----------|--------|------|---------|---|------|----------|
| | Pts. | <u></u> | Pts. | % | Pts. | % | Pts. | % | Pts. | % | Pts. | % |
| D HEAVY | 30 | 13 | 26 | 14 | | | | | | | 56 | 13.5 |
| s LIGHT t | 127 | 54 | 52 | 29 | | | | | | | 179 | 43 |
| u UNDISTURB | 79 | 33 | 102 | 51 | | | | | | | 181 | 43,5 |
| b PAST ACTIVITY | | | | | | | | | | | | · — |
| TOTALS | 236 | 100 | 180 | 100 | | | | | | | 416 | 100 |
| DISPLACED | ß | 1 | 4 | 2 | . : | 1 January | | | | | 7 | ユ |
| EROSION | | | | <u> </u> | | | | | | _ | | |
| PUDDLED | | | | | | | | | | | | |
| SMZ | | | | | | | | | | | | |
| ROCK | 1 | 41 | 1 | 41 | | *** | | - | | | 2 | <u> </u> |
| BURN PILES | | | | | | | | | | | | |

08/01/2002 Fortine - Thirsty Lake Unit 24 32002056

KOOTENAI NATIONAL FOREST SOIL DISTURBANCE MONITORING FORM

| DATE OBSERVER DISTRICT SALE/S.A. Threaty Lake Unit # 24 Acres 5 H.T. DF/Caru Slope 25 40+ Location COMPACTION (Heavy) XLJ 17 PAST ACTIVITY | SKIDDING METHOD disp If tractor: disp HAZARD TREATMENT Cuture SILVICULTURAL TRMT L OPERATION PERIOD Aspect NE | ersed dedicated X |
|---|---|--|
| COMPACTION (Light) 図図図図 | MAN 89 | |
| UNDISTURBED AND AND AND | _ <i>85</i> | |
| - 20 | | |
| DISPLACED 🖾 🗷 20 | | |
| EXCAVATED SKID TRAIL | | |
| SMZ/ROCK | | |
| COMMENTS (Include soil, geology, organi oil-Calcaseurs Glacyal f isturbunce / displaces | c debris-large & small, erosion, r ill-nploess, for nent for sigel of | pad drainage, other pertinent info), amount of detruments, unit. |
| | | |
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| | | |
| SHAPE OF UNIT AND PATTERN OF TRAN | SECT | |

Unit 27

<u>COMPACTION (Heavy)</u> - 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. <u>COMPACTION (Light)</u> - Any other area not included in heavy COMPACTION or UNDISTURBED.

<u>UNDISTURBED</u> - No signs of any machinery or skidding acitvity.

DISPLACED - Any place soil has been mounded by machinery, also include in heavy or light compaction.

| ! | Transect | 1 | Transect | t 2 | Transe | ct 3 | Transec | t 4 | Transec | | TOT | |
|--------------------|----------|-----|----------|------|--------|------|---------|-----|---------|---|------|-----|
| | Pts. | % | Pts. | % | Pts. | % | Pts. | % | Pts. | % | Pts. | % |
| D HEAVY | 17 | 9 | | | | | | | | | 17 | 9 |
| s LIGHT t | 89 | 45 | | | | | | | | | 89 | 45 |
| u UNDISTURB r | 85 | 43 | | | | | | | | | 85 | 43 |
| b PAST ACTIVITY | 27 | 3 | | | | | | | | | 7 | 3 |
| TOTALS | 198 | 100 | | | | | | | | | 198 | 100 |
| DISPLACED | 20 | 10 | | | | | | | | | 20 | 10 |
| EROSION | | | | | | | | | | | | |
| PUDDLED | | | | | | | | | | | | |
| SMZ | | | | | | | | | | | | |
| ROCK | | | | 1917 | | | | | | | | |
| BURN PILES | | | | | | | | | | | | |

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

08/01/2002 Fortine - Thirsty Lake Unit 27 32002059

KOOTENAI NATIONAL FOREST SOIL DISTURBANCE MONITORING FORM

| DATE OBSERVER DISTRICT SALE/S.A. Unit # 2 H.T. DF Slope 0 Location COMPACTION | Farting Thurst, Acres | en broke. | CUTTING METHOD SKIDDING METHOD If tractor: HAZARD TREATMENT SILVICULTURAL TRM OPERATION PERIOD Aspect I VE Elevation I 40 40 | Summer | dedicated | line |
|---|--|-------------------|--|------------------------|---------------------------------|---|
| PAST ACTIV | N (Light) 🖄 | | | | [E] 187 | |
| UNDISTUBE MANAGED DISPLACED | | | | 727 | | |
| EXCAVATED | | | | | | *************************************** |
| SMZ/ROCK | | | | | | |
| COMMENTS | | il deology organi | c debris-large & small, ero | ision road drainade | other pertinent intol | |
| facial Fiseling and form | lies as fell and aroub mostly | Jacent & | c debris-large & small, ero i Unital and nit bohs mu len unita Drum" on a m | upslope d. better (| o Soil-calco | lacement |
| SHAPE OF U | lies as fill and aroub mostly | | clinitay and nit looks mu len units. Drum" on a m | upslope d. better (| less soil disp ther Lake Shi | lacement |

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 acitvity.

DISPLACED - Any place soil has been mounded by machinery, also include in heavy or light compaction.

| [| Transect | 1 | Transec | t 2 | Transe | ct 3 | Transe | ct 4 | Transec | | TOT | |
|--------------------|--------------|-----|---------|----------|--------|------|---------|--------------------|---------------|----------|------|-----|
| | Pts. | % | Pts. | % | Pts. | %_ | Pts. | % | Pts. | % | Pts. | _% |
| D HEAVY | 25 | 7 | 24 | 7 | | | | | · | / | 49 | _7_ |
| s LIGHT | 187 | 55 | 206 | 58 | | - | | | | , | 393 | 57 |
| u UNDISTURB | 127 | 38 | 125 | 35 | | | | | | | 252 | 36 |
| b PAST ACTIVITY | | _ | | <u> </u> | | | | | | | | |
| TOTALS | 3 <i>3</i> 9 | 100 | 355 | 100 | S. T. | | | * 1 × 20 | | | 694 | 100 |
| DISPLACED | 10 | 3 | 13 | 4 | | | .250 mg | 75.1 9 1.37 | 4 **** | ya karan | 23 | 3 |
| EROSION | | | | | | | | | | | | |
| PUDDLED | . : | | | | | | | | | | | |
| SMZ | | | | | | | 1,6 | | , | | 1 | |
| ROCK | | | | | | | | | | | | |
| BURN PILES | | | | | | | | | | | | |

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07/26/2002

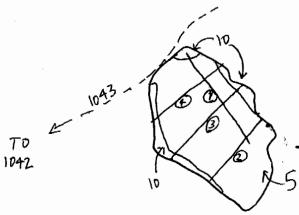
Fortine - Roberts Mountain Unit 5 & 10 32901115

KOOTENAI NATIONAL FOREST SOIL DISTURBANCE MONITORING FORM

20/6/11/0

| | | and the second of the second o | , | |
|-----|---|--|-----------------------|--|
| 1 | DATE 1.26.02 | CUTTING METHOD | Clepper | |
| , | OBSERVER Kuennen/Cott | SKIDDING METHOD | RTS // | - |
| | DISTRICT Fortine | If tractor: | dispersed | dedicated |
| | SALE/S.A. Roberts Mich. | HAZARD TREATMENT | understory bu | rn spring 01 |
| | Unit # <u>5 + 10</u> Acres / 23, 7 | SILVICULTURAL TRMT | | - CTM |
| | H.T. 31.2 | OPERATION PERIOD | summer " | 01 |
| | Slope 2-8 | Aspect & | | · · · · · · · · · · · · · · · · · · · |
| , | Location lower | Elevation I T | | |
| / | COMPACTION (Heavy) R M N | NO 33 NON NO SO | | (34) ⁴⁴ 44 |
| | PAST ACTIVITY |) <u>Buny</u> 60 | Z | |
| | COMPACTION (Light) 图 图 图 图 图 图 | 184 | . 77 TH 17 17 TH TO A | 1111 |
| ١. | | | | |
| | B D D D D D D D D D D D D D D D D D D D | AO TE 33 | MAKE BERME | 140/4 |
| | UNDISTURBED B 医阿耳氏 医耳 | A PO DE - ZZNINI RI PO DO | M M M M (49) 72 | A TO DO IN TO MAKE TO GOT TO |
| ۷, | | | (ABEAR OF) | 4003 |
| ` | | | | |
| 1 | DISPLACED 121 | | 77.44 | |
| 40 | | | | |
| | EXCAVATED SKID TRAIL | | | |
| , | PP 1 | Ale Canada Canad | , , | |
| | SMZ/ROCK | THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS | . 1840 | |
| - | COMMENTS (hade do asil asolano as | | | |
| | COMMENTS (Include soil, geology, org | | | ier pertinent info) |
| | · Unit has been brend-when? Loc | one will produce to brun - | Spring U. | |
| | Transact 2 is more varied/but | the remove that will | Lucced still tooil | s at 1 sh led and |
| • | Transect of its virte water from | in whisemann finit | (COUSER SIME FRAME | s and maisimble messy |
| • | Zindence of cattle use, but not re | rent (not this speakin). | | |
| - | and the first the first to the | The three best south 17. | | |
| ۲ | Source tail throughout unit w/a | fin incenteated probets | • | |
| | • 0 | | | |
| • | Some deep Ruthing, singgests opera | tion on wet/mrist soils | | |
| v | Very red strumps in Estrip & V | nit 10 - this much did no | t expanize any in | parts du to prot adjuite. |
| - | Dut old Stumps = post reina | times have occurred. | 7 | Property (Contraction of the Contraction of the Con |
| | SHAPE OF UNIT AND PATTERN OF TR | ANSECT | | |
| | mens about till | | | |
| F12 | IND KTUZ) ONUNCAMU TUUL | | | |

Calcareons glacial till



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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DISPLACED - Any place soil has been mounded by machinery, also include in heavy or light compaction. SMZ/BOCK/BUBN PILE - Include within transect if within harvest unit

| | , | | | Transect | 2 | Transec | t 3 | Transe | ct 4 | Transec | t 5 | TOT | |
|--------------------|---------------|------------------|----------|----------|-----------|---------|------|--------|-----------------------|-----------|---------------|--------|----------|
| | | Transect Pts. | 1 % | Pts. | % | Pts. | % | Pts. | % | Pts. | % | Pts. | % |
| Ē | HEAVY .(). | | 16 | 50 | 19.6 | 34 | 11.8 | 34 | 12.5 | | | 176 | 15 |
| ე ^{ე _} s | LIGHT | 184 | 52 | 106 | 45 | 140 | 49 | 138 | 51 | | NE CONTRACTOR | 578 | 49 |
| i r | UNDISTURB | 145 | 32 | 89 | <u>35</u> | 113 | 39 | 98 | 36_ | | · · · | 415 | 36 |
| t | PAST | | | ٠ | · | | | | | | | | <u>.</u> |
| _ | TOTALS | 351 | 100 | 255 | 100 | 287 | 100 | 270 | 100 | | | 1169 | 100 |
| · | DISPLACED | 2 | 4 | | - 15 V | 1 W 1 | | 92.13 | 14 174 1 ₄ | - A-347 F | | 2 | |
| | EROSION | | | | | | | | | | | | |
| | PUDDLED | , | | | | - 1: | | | | | | | |
| | SMZ | | | | | | | | | H41, . | | lan an | |
| _ | ROCK | | | | | | | | | | | | |
| | BURN PILES | | | | | | | | | | | | |
| | | | | | To y | | | | | | | | |

Fourt

08/07/2002 Three Rivers - Shimmering Grouse Unit 10 44004114

SOIL DISTURBANCE MONITORING FORM

| | ated X erovement J EFSomeDF |
|--|---|
| PAST ACTIVITY . | 265 |
| COMPACTION (Light) AND | 7 N/1 |
| NAMANA DA A A A A A A A A A A A A A A A A A | uu L |
| | ing the factor of the second |
| WINDISTURBED A BANDARA RANDARA BANDARA 240 259 | |
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| DISPLACED DE DE 198 | |
| and the state of t | |
| EXCAVATED SKID THAIL fulfling 12 1 881 | er eggs |
| | San |
| SMZ/ROCK) X | |
| | |
| | <u> </u> |
| COMMENTS (Include soil, geology, organic debris-large & small, erosion, road drainage, other pertine | nt info) |
| COMMENTS (Include soil, geology, organic debris-large & small, erosion, road drainage, other pertined Rock ridges scattered in unit - 13 etc. | nt info) |
| Rock ridges scattered in unit - Belt. | ero-rutter |
| Soch ridges scattered in unit - Belt. speck trail on south edge of unit should have some waterby not butto up against an older unit. Spotted knipweed, goatwee | ero-rutter |
| Soch ridges scattered in unit - Belt. speck trailor couth edger unit should have some waterby in that up against an older unit. Spotted knipweed, goatween | ero-rutter |
| Poch ridges scattered in unit - 13 elf. - p foch fraid on couth edger unit should have some waterby at butto up payment an older unit. Spotted knipweed, goatwee Roch ribe in wait possibly remains of goat faulting. | ero-rutter |
| Poch ridges scattered in unit - 13 elf. p foch trail on couth edger unit should have some waterby at trutts up payment an older unit. Spotted knipweed, goatwee Frank ribe in wait to possibly remains of part faulting. Vallanique hover till w/ some residual. | ero-rutter |
| Soch ridges scattered in unit - Bolt. Spech trail on couth edget unit should have some waterby not butto up against an objective unit. Spotted knipsweed, goatweed From ribe in unit - possibly remains of goat faulting. Volconicash over till w/ some residual. In menny of the She Segnificant sutting has occurred on menny of the She | ero-rutter |
| Poch ridges scattered in unit - 13 elf. p foch trail on couth edger unit should have some waterby at trutts up payment an older unit. Spotted knipweed, goatwee Frank ribe in wait to possibly remains of part faulting. Vallanique hover till w/ some residual. | ero-rutter |
| Soch ridges scattered in unit - Bolt. Spech trail on couth edget unit should have some waterby not butto up against an objective unit. Spotted knipsweed, goatweed From ribe in unit - possibly remains of goat faulting. Volconicash over till w/ some residual. In menny of the She Segnificant sutting has occurred on menny of the She | ero-rutter |
| Soch ridges scattered in unit - Bolt. Spech trail on couth edget unit should have some waterby not butto up assent an object unit. Spotted knipsweed, goatweed From ribe in unit - possibly remains of goat faulting. Volconicash over till w/ some residual. In menny of the She Segnificant sutting has occurred on menny of the She | ero-rutter |
| Soch ridges scattered in unit - Bolt. Spech trail on couth edget unit should have some waterby not butto up assent an object unit. Spotted knipsweed, goatweed From ribe in unit - possibly remains of goat faulting. Volconicash over till w/ some residual. In menny of the She Segnificant sutting has occurred on menny of the She | ero-rutter |

<u>UNDISTURBED</u> - No signs of any machinery or skidding acitvity.

DISPLACED - Any place soil has been mounded by machinery, also include in heavy or light compaction.

SMZ/ROCK/RURN PILE - Include within transport if within harvast unit

| | Transect | 1 | Transec | t 2 | Transec | et 3 | Transe | ct 4 | Transec | | TOT | |
|--------------------|--------------|-----|---------|-----|---------|---|--------|------|---------|------------------------|-------|---------------|
| | Pts. | % | Pts. | % | Pts. | % | Pts. | %_ | Pts. | _ % | Pts. | % |
| D HEAVY i | 60 | 10 | 53 | 10 | | | | | | | 113 | 10 |
| s LIGHT t | 265 | 46 | 238 | 45 | | | | | | | 503 | 45 |
| | 258 | 44 | 240 | 45 | | Name of the state | | | | | 498 | 45 |
| b PAST ACTIVITY | - | | | | | | | | | | | |
| TOTALS | 583 | 100 | 53 | 100 | | | | | | | 1114 | 100 |
| DISPLACED | 28 | 5 | _ | | 3.1.3 | | 14.7-1 | 1111 | | e takir _{kar} | 28 | 3 |
| EROSION | | | | | | · . | | | | | | |
| PUDDLED | 3 | 1 | 5 | l | | | | | | | B | |
| SMZ | | | | | | | | | | | -1,15 | • |
| ROCK | 13 | 2 | | | | | | | | | 13 | _/_ |
| BURN PILES | | | | | | | | | | | | e in the same |

Coust

44004146

KOOTENAI NATIONAL FOREST "SOIL DISTURBANCE MONITORING FORM

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

| | 1.41. | CUTTING METHOD SKIDDING METHOD If tractor: HAZARD TREATMENT SILVICULTURAL TRM OPERATION PERIOD Aspect I | T LT M Jun | dedicated SW Sadd ne | X |
|---|---|---|------------|-----------------------|---|
| Location COMPACTION (He PAST ACTIVITY COMPACTION (Light | ht). AND AND AND A | Elevation 25 | | 253 (VVX) | |
| © NOISTURBED M | | TANDING MI | 7 | | |
| EXCAVATED SKID | | | | | |
| Topography | ide soil, geology, organic stroken resem ver grovelly ou wer grovelly ou | bling outras | | | |
| | | 0 | | | |
| SHAPE OF UNIT AN | ID PATTERN OF TRANS | ECT | | | |

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.

<u>UNDISTURBED</u> - No signs of any machinery or skidding acitvity.

DISPLACED - Any place soil has been mounded by machinery, also include in heavy or light compaction.

| | Transect | t 1 | Transec | t 2 | Transe | ct 3 | Transe | ct 4 | Transec | | TOT | |
|--------------------|----------|-----|---------|-----|--------|--------------------|--------|----------|---|----------------|------|-----------|
| | Pts. | % | Pts. | % | Pts. | % | Pts. | % | Pts. | % | Pts. | % |
| D HEAVY | 49 | 11 | 53 | 11 | | | | | | | 102 | 11 |
| s LIGHT t | 253 | 54 | 240 | 49 | | | | | | | 493 | 52 |
| u UNDISTURB r | 163 | 35 | 197 | 40 | | | | <u> </u> | | | 360 | 37 |
| b PAST ACTIVITY | , | | | | | | | | | | | |
| TOTALS | 465 | 100 | 490 | 100 | 4, 77 | ajangan manadan | | | 100 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 70.00 | 955 | 100 |
| DISPLACED | 6 | 1 | 7 | 10 | | | | 43.05 | | | 13 | |
| EROSION | | | | | | | | | | | 4 | 41 |
| PUDDLED | 4 | 1 | | | | | | 44. | : | and the second | | |
| SMZ | | | | | | | | · . | | 2 No. 15 | | Λ |
| ROCK | | | | | | | | | | | | 1 |
| BURN PILES | | | | | | | | | | | * | January . |
| | | | | | | | | | | | | (|

Fount

44004132

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

SOIL DISTURBANCE MONITORING FORM

| DATE OBSERVER DISTRICT SALE/S.A.S.L.in Unit # 13 H.T. GF/Clu Slope Location | 7:02 Viennen Vee Rivers mingorouse/ Acres (510) 40 wer 31 | CUTTING METHOD SKIDDING METHOD If tractor: HAZARD TREATMENT SILVICULTURAL TRMT OPERATION PERIOD Aspect i SE Elevation I 25 00 | May/ Jun '02 | dedicatedX |
|---|---|---|--|--|
| COMPACTION (He | eavyDA A A 31 | <u> </u> | | |
| PAST ACTIVITY | | | /38 | |
| COMPACTION (Lig | | MAMAMAI | AL. | |
| GMMMMMA | NAN | <u>Zl' 151 </u> | | |
| UNDISTUBBER | M B B R R R R | MMMMMM | NXXXI. 121 | |
| OBBBBBB | MAMMAMM | | | |
| DISPLACED | 20 S | | | |
| DISPLACED LA | 371 | | | |
| EXCAVATED SKID | TRAIL | and the second | Control of the second | |
| SMZ/ROCK | | PAGE 47-44. | | |
| SMZ/HOCK | | | | |
| COMMENTS (Incl | lude soil, geology, organic | debris-large & small, erosi | on, road drainage, othe | r pertinent info) |
| Unit Comp | uged of terra | ce top t terre | aceface. | - 1 - 10 - 12 |
| - aging the | oas pretty gro | f. Machine 41 | Ken Sail was | n liler (would |
| It west | A lots of lis | placement & | ongression | of commention |
| Terrece face | very groved | | <u> </u> | |
| and Sande | ngin SW con | 4rgunt ser | ved for both i | into 13+19. |
| | A second of the second of | | | |
| | | | | |
| | | | | |
| | | | and the second transfer of the second of the | and the state of t |
| SHAPE OF UNIT AN | ND PATTERN OF TRANS | ECT | | |
| | | | | |

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.

<u>UNDISTURBED</u> - No signs of any machinery or skidding acitvity.

DISPLACED - Any place soil has been mounded by machinery, also include in heavy or light compaction.

| | Transect | 1 | Transec | t 2 | Transe | ct 3 | Transe | ct 4 | Transec | | TOT | |
|--------------------|----------|-----|---------|-----|--------|------|---------------------------------------|-------|---------|-------|------|-----|
| | Pts. | % | Pts. | % | Pts. | % | Pts. | % | Pts. | % | Pts. | % |
| D HEAVY | 31 | 9 | 28 | 8 | | | | | | | 59 | 8 |
| s LIGHT t | 138 | 41 | 151 | 41 | | | | | | | 289 | 4/ |
| u UNDISTURB r | 121 | 50 | 191 | 51 | | | | | | | 362 | 51 |
| b PAST ACTIVITY | | | | | | | | | | | | |
| TOTALS | 340 | 100 | 370 | 100 | | | | 12 .1 | | | 710 | 100 |
| DISPLACED | 10 | 3 | 5 | 1 | is sa | | · · · · · · · · · · · · · · · · · · · | 35 J | Mys. | • | 15 | 2 |
| EROSION | | | | | | | , | | | | . : | |
| PUDDLED | | | | | | | | · | | 1, 44 | | |
| SMZ | | | | | | | | | | | | |
| ROCK | | | | | | | | | | | | |
| BURN PILES | | | | | | | | | | | | |

Yourt

44904147

08/07/2002 Three Rivers - Shimmering Grouse Unit 14 44004147

KOOTENAI NATIONAL FOREST SOIL DISTURBANCE MONITORING FORM

| DATE 8.7.02 CUTTING METHOD SKIDDING METHOD | Clipper RTF dispersed dedicated X |
|--|--|
| | |
| Unit # 14 Acres 10 SILVICULTURAL TRMY | SD CC W/ reason |
| | may/hin'02 |
| Slope 0-5 Aspect With | may son oa |
| Location lawer 1 3 Elevation 1 (8) | 2400 |
| COMPACTION (Heavy) A A ZEZ SEX: SEX L | 390 |
| Com no nervineary) A Party 75 Party 74 | -\$/ |
| PAST ACTIVITY 1 27 B | 0. 11 6 |
| COMPACTION (Light) AND XXXX I I I XXXX XXXX XXXX XXXX XXXX X | NANCE CHANGE CHANG |
| 1 5 | |
| UNDISTURBED XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | LANNANDENNANDE |
| | |
| DISPLACED : 31: 1[1:16] - 181 37: | |
| EXCAVATED SKID TRAIL | |
| SMZ/ROCK | |
| COMMENTS (Include soil, geology, organic debris-large & small, erosig | on, road drainage, other pertinent info) |
| Q The logging occurred when the sou | lo were wet. |
| Portrond of the cent had old activit | y Hard to distinguish! |
| separate from current activity | Clipper operator put |
| himself in places he did not mee | to go, This candod som |
| Joppenengal detrimente that in | a stat need to be. |
| Lest anothe likely- topo who a seed to | ee only the larch are fourly |
| Ismall. a few Pf | |
| | |
| The last table to the last table table to the last table tab | |
| | |
| | |
| 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.

<u>UNDISTURBED</u> - No signs of any machinery or skidding acitvity.

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

07/00

| | | | T | 2 | Transe | ct 3 | Transec | t 4 | Transec | | TOT | |
|--------------------|----------|----------|----------|-----|--------|------|--|----------------|---------|----------|--------------|----------------|
| | Transect | | Transect | | Pts. | % | Pts. | % | Pts. | % | Pts. | % |
| | Pts. | % | Pts. | % | r (5. | 70 | | | | 171 | in No. 1899 | |
| D HEAVY | 20 | 28 | 11 | 16 | 9 | 9 | 13 | 14 | 13 | | general and | 48 N. 1811 |
| s LIGHT | 30 | 43 | 3/1 | 44 | 45 | 45.5 | 38 | 41 | 52 | 39 | | |
| u UNDISTURB | 20 | 28 | 27 | 39 | 45 | 45.5 | 37 | 40 | 68 | 50 | | |
| b PAST ACTIVITY | 2 | 2 | 1 | 1 | - | | 4 | _5 | - | | | |
| TOTALS | 7.2 | 100 | 70 | 100 | 99 | 100 | 92 | 100 | 135 | 100 | | |
| DISPLACED | 2 | 2 | 2 | 3 | 5 | 5 | 5 | 5 | 3 | 2 | | |
| EROSION | | | | | | | - | an of the same | - | **** | 1207 C. 1207 | A section is a |
| PUDDLED | -41,172 | | | | | | | | | 1 (28.2) | | |
| SMZ | | | | | | | The state of the s | | | | | |
| ROCK | | | | | | | | | | | | |
| BURN PILES | | - | | | | | | | | | | |
| | | <u> </u> | | | | | <u>. </u> | | | | | , |

02/05

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

TRANSECT SUMMARY FORM

| | Transec | | Transect | | Transec | t 3 | Transec | ot 4 | Transect | 5 | TOT | ALS |
|------------------|---------|-----|----------|---|---------|--|---------|------|----------|---------------|------------|----------|
| | Pts. | _% | Pts. | % | Pts. | % | Pts. | % | Pts. | % | Pts. | % % |
| DHEAVY | 4. | 4 | | | | | | | | | 79 | 10 |
| LIGHT | 71 | 64 | | | | | | | | | 9/17 | 10 |
| UNDISTURB | 35 | 32 | | | | | | | | | 267 232 | .7 |
| PAST ACTIVITY | | - | | | | | | | | <u> </u> | 7 | _4_ |
| TOTALS | 110 | 100 | | | | | | | | · | 578 | |
| DISPLACED | 2 | 2 | | | | | | | | | 110 | |
| EROSION | | | | | † | | | | | - | | |
| PUDDLED | | | | | | | | | | <u></u> | | |
| SMZ | | . | | , | | | | | | | | |
| ROCK | | | | | | <u>. </u> | | | | | | |
| BURN PILES | | | | | | , | | | | | | |

08/08/2002 Three Rivers - Pine Unit 45 44703168 44203168

KOOTENAI NATIONAL FOREST SOIL DISTURBANCE MONITORING FORM

| DATE OBSERVER | 3/Q/n2 | | | n 11- | |
|---|---|---|---|--|--|
| OBSERVER | 71 TJ 1 Ozer | CUTTING ME | THOD () | legger/ha | end: |
| | Kuenn | 0///550/00 145 | ETHOD 🚡 | that. | |
| DISTRICT 7 | hree River | If tractor: | | spersed | dedicated |
| SALE/S.A. | ne | HAZARD TRE | | 2011 | |
| Unit # 45 | Acres95_ | SILVICULTUF | | TM/DID | Improvement |
| H.T. DF | Inma | OPERATION | | Summer | 011 |
| Location Low | 5-35 benc | Aspect Elevation | 3-54 2950 | -3250 | |
| COMPACTION (I | Heavy) & KT | / Lievation | 2750 | <u> </u> | THE RESERVE OF THE PERSON OF T |
| NL. | <u> </u> | | | | |
| PAST ACTIVITY | X 33 L | | | | |
| COMPACTION (I | ight) XXXX | MANANA | MMMM | MXL | |
| BAMAMA | MAMAMA | ANDINI. | | | |
| UNDIGHT | EZ KZ CZSZ KZ K | रत हास्त्रतसम्बद्धाः जी | K# 1V1 TV/ Lan 44 | | |
| Ø Ø Ø Ø Ø Ø | M M M M M M | SANARAMA. | MMMM | MITI - | |
| MAMAGE | | | | | |
| DISPLACED [X | | | | A STATE OF THE STA | <u> 1964 - Jan San And I 1946 (1844 - 19</u>). 1864 - San Albarda (1966 - 1966) |
| B | | | | | |
| EXCAVATED SKI | DTRAIL L 88/ | | | and the second | |
| | | 7 P P P P P P P P P P P P P P P P P P P | <u> </u> | | |
| SMZ/ROCK) | 3 1' | <u> </u> | | | |
| 0.0141.00.4 | | | <u> </u> | | |
| | | , organic debris-large & : | CO A A | 9.1 | |
| H Jump-mp. | linkingwan | used off Rd 2 | 538. AT 0 | vasayare | Jundlelyan Fre |
| - R (# 1171 L. | | | | | |
| wille of TI | y unit w/ e | gesvately Tra | ily lead | ing/ bay | gway from Th |
| widdle of The | re trails is | Level for by | Lupon | comple | tion to the |
| middle of The Landings of Soulicaling | re trails in | ere put to be | ly bear | comple she un | tion to the standard |
| while of The Southern Form | re trails in come glacyl nation. The | tere put to be till general | Lugar Lugar Lock rib | comple comple she un | tion the stant |
| Janding & Societies Jelons Form More unit | re trails in resident mation. The has all sty | tere put to be till general re are several impg-40-50 ye | lupon Lupon Lock rib ears old. | - | . also shellow to b |
| Janding & Ton Lelona For Lelona For Mare unit | he trails in mation. The has all sty ted runs to | till general till general reare several impo-40-50 y rough und flo skilding frat | Lupon Lupon Loch rib ears old. | east tous | . also shellow to b |
| while of The souling | he trails in nation. The has all sty bedruns to be current needow ha | till generalle re are several impg-40-50 ye rough und fla skilding path whereof 4 spo | Lupon Lupon Lock ril Lock ril Lock ril Lock ril Lock ril West Mary Use Mary | east tous | calso she llow to b |
| whildle of The suding of the sum | he trails in he trails in he sold sty ted runs to be current neadow ha | till general till general re are several imps-40-50 y rough unt fla skilding frets whereast & spo | lupon Lupon Loch rib ears old. | east tous | calso she llow to b |
| while of The surficient for the sure unit of the sure | he trails in ne trails in nation. The hys old sty ted runs to be current neadow ha | ere put to be till general re are several impo-40-50 y rough und flo shilding path whiteed + spo | Lupon Lupon Lock rib ears old. | east tous | calso she llow to b |
| suding & Tourist Calculation of Speeduce | he trails in he trails in he sold sty ted runs to be current neadow ha | rolphint the skilding path whereal + spe | Lupon Lupon Lock silvers old; must be the hour | east tous | calso she llow to b |
| shiftle of The suding of Spice was a spice of the Shape of UNIT | he trails in he trails in he trails in he design to current he current he current he current he current | TRANSECT | Lufon Lufon Loch ril ears old. | east tous | calso she llow to b |
| SHAPE OF UNIT | | TRANSECT | Lupon Lupon Lock rib ears old. | east tous | calso she llow to b |
| SHAPE OF UNIT | | rolphint the skilding path whereal + spe | Lupon Lupon Lock silvers old. | east tous | calso she llow to b |
| shiftle of The surfiction of Speedure | | TRANSECT | Lupon Lupon Lock rib ears old; must the honey | east tous | calso she llow to b |
| Solicales Solicales Jacobs Fors Jacobs Fors Jacobs Jacobs Shape OF UNIT | | TRANSECT | Lufon Lufon Loch ril ears old. | east tous | calso she llow to b |
| whitele of The suding of Solicales and Formal Formal Solicales on Speeduce SHAPE OF UNIT | | TRANSECT | Lugar Lugar Lock ril Lars old. | east tous | calso she llow to b |
| SHAPE OF UNIT | | TRANSECT | Lupon Lupon Lock silvers old. | east tous | calso she llow to b |
| SHAPE OF UNIT | | TRANSECT | Lupon Lupon Lock rib ears old; must the honey | east tous | calso she llow to b |
| South of The South of South Calcular Formal Formal South Calcular Shape OF UNIT | | TRANSECT | Lufon Lufon Loch ril ears old. | east tous | calso she llow to b |
| Shape OF UNIT | | TRANSECT | Josh riller was old. | east tous | calso she llow to b |
| Silfcology Silfcology Jelona Form Idefcons Indianlas SHAPE OF UNIT | | TRANSECT | Toch rillers old. | east tous | calso she llow to b |
| Selfcolory Selfcolory Jelona Fore The fearen Missely SHAPE OF UNIT | | TRANSECT | Lupon Lupon Lock rib ears old; must the honey | east tous | calso she llow to b |
| SHAPE OF UNIT | | TRANSECT | Lupon Lupon Lock ril ears old; | east tous | calso she llow to b |
| SHAPE OF UNIT | | TRANSECT | Lufon Lufon Loch rib Lans old. | east tous | calso she llow to b |
| South of The South of South Calcular Formal South of Calcular Speedure SHAPE OF UNIT | | TRANSECT | Josh riller was old the War | east tous | calso she llow to b |

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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DISPLACED - Any place soil has been mounded by machinery, also include in heavy or light compaction. SMZ/BOCK/BUBN PILE - Include within transect if within harvest unit

| | Va | wes- | w | rper | ECT 30 | JMMARY | | | | | | |
|------------------------|---------|---------|-------|------|---------|-----------|--------|-----------|---------|----------------|----------------------|-----|
| | Transec | t 1 | Trans | | Transe | | Transe | | Transec | | TOT | |
| | Pts. | % | Pts. | %_ | Pts. | % | Pts. | % | Pts. | _% | Pts. | % |
| D HEAVY i | 23 | 5 | 15 | 5 | | | | | | | 38 | 5 |
| s LIGHT t UNDISTURE | 185 | 45 | 174 | 64 | | | | | | | 359 | 52 |
| r | 198 | 48 | 78 | 28 | | | | | | | 276 | 40 |
| b PAST ACTIVITY | 10 | 2 | 8 | 3 | | | | | | | 318 | 3_ |
| TOTALS | 416 | 100 | 215 | 100 | | | | | | | 691 | 100 |
| DISPLACED | 13 | 3 | 8 | 3 | √ 1.7 × | ji viya s | gady. | | 105 2 | | 21 | 3 |
| Excepted | 5 | 1 | 5 | 2 | | | | | | - | 10 | (_ |
| PUDDLED | | | | | | | | | | | | |
| SMZ | | | | | | | | | | | | |
| ROCK | 10 | 2 | 6 | 2 | | | | | | · | 16 | _2 |
| BURN PILES | | , | | - | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | * . | | | | | | | arabaka Araba BAS | |
| | | | | | | | 180 | | | | | |
| | | , North | | | | | | (magilin) | | in visit Vi | will have | |
| | | | | | | | | | | | | |
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| | | | | | | | | | | | | |

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08/08/2002 Three Rivers - Jeanne's Last Review Unit 15 44703209

44703209

KOOTENAI NATIONAL FOREST SOIL DISTURBANCE MONITORING FORM

| DATE | 8/8/02 | GUTTING MET | | lyper | 70.00 |
|-------------|---|-----------------------------|--|--|--|
| OBSERVER | | | | TRTS | |
| DISTRICT > | Three Kivers | If tractor: | dispers | ed ded | cated |
| SALE/S.A. | | RevenHAZARD TREA | | 1 | |
| Unit # | 2/5 Acres 39 | SILVICULTURA | | | ed/reserve |
| | SF/Libo - WH/ | Clun OPERATION F | | Jan Feb 1 | |
| Slope | 2-10 | Aspect W | ny lillote | There is is to | the north |
| Location | lower 15 | Elevation I | 2200 - 22 | <u>80</u> | C. f. Metric . C. |
| | ON (Heavy) 🔯 📜 | | | | |
| AL /5 | 10 10 | <u> </u> | | | The state of the s |
| PAST ACTIV | VIIY IXI EZ IXI | AND KICKET STEAKING | ANIMAKIN | M11197 | |
| COMPACIO | ON CHANGE AND | MANANAM | MANNAM | KI L. | 1 |
| MAMAR | |] 128 | | | en andre en |
| UNISUSTRIBE | VD -457 -3-27 829 | 151 व संस्त्र स सहस्र | DANKIT! | 198 | |
| | FI ALKASSI | AMM MAMM MAM | XIN XI XI XI XI I | A CANADA CAR ASSESSMENT AND A | And Sept. Marketine |
| DAMA | | MIEN. 1 143 | | | |
| DISPLACED | (17 8 / | | | | |
| DISPLACED | | | | | |
| EVOAVATE | D SKID TRAIL | | | | |
| EXCAVATEL | D SKID THAIL | <u> </u> | <u> </u> | | |
| CNIZIOCO | RIKURA | | | | |
| SMZIROCK | | | | | |
| COMMENTS | · (Include call englass | debeig laura 9 o | uali arasan mad | | |
| AND A | | , organic debris-large & sr | | | |
| OLKY | | so scattered & | | Good ash C | apover |
| utwosh/ | CWD is light | 1 content (410) | nash. | | |
| unent! | CWB is light | -1-1) | 0 . 1 . 54- | | |
| 4916 M | off red allong | | e of unit. | | |
| any w | quer on gus | side than Son | | | |
| Should | | -4-5 acresa | | ling for re | reping |
| inees | planted you | burn ash my | The second secon | ring Wery ut | U. Steraper |
| our | maen and | unt seam to | accur. | | |
| | | | | | |
| | speedwell | | | | |
| of mon | Julian W | h | | the state of the s | No. |
| SUADE OF !! | INIT AND PATTERN OF | hawhweed s | eallered_ | | |

<u>COMPACTION (Heavy)</u> - 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. <u>COMPACTION (Light)</u> - Any other area not included in heavy COMPACTION or UNDISTURBED.

<u>UNDISTURBED</u> - No signs of any machinery or skidding acitvity.

<u>DISPLACED</u> - Any place soil has been mounded by machinery, also include in heavy or light compaction. SMZ/ROCK/BUBN PILE - Include within transect if within harvest unit

| | Transect 1 | | ransect 1 Transect | | ransect 2 Transect | | t 3 Transect 4 | | | | TOTALS | |
|--------------------|------------|-----|--------------------|-----|--------------------|----------|----------------|------------|--------|------------|--------|-----|
| | Pts. | % | Pts. | % | Pts. | % | Pts. | % | Pts. | % | Pts. | % |
| D HEAVY | 15 | 4 | 15 | 4 | | | | | | | 30 | 4 |
| s LIGHT | 197 | 56 | 198 | 54 | | | | | et. | | 395 | 55 |
| u UNDISTURB | 128 | 37 | 143 | 39 | | | | | | | 271 | 38 |
| b PAST ACTIVITY | 10 | 3 | 10 | 3 | | | | | | 1 1 2 1 1 | 20 | 3 |
| TOTALS | 350 | 100 | 366 | 100 | | | • | The second | | | 716 | 100 |
| DISPLACED | 8 | 2 | 5 | 1 | | 10 JAN 8 | | 1.74 | 170.14 | X. 7. 46.5 | 13 | 2 |
| EROSION | | | | | | | | | | | | |
| PUDDLED | | | | | | | | | | | | |
| SMZ | | | | | | | | | | | 1 1 1 | |
| ROCK | 10 | 3 | 20 | 5 | | | | | | | 30 | 4 |
| BURN PILES | | | | | | | | | | | | |

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

08/28/2002 Libby - North McSwede Unit 33 52902039

KOOTENAI NATIONAL FOREST SOIL DISTURBANCE MONITORING FORM Look Telember DATE CUTTING METHOD SKIDDING METHOD **OBSERVER** DISTRICT If tractor: dispersed HAZARD TREATMENT SALE/S.A. N. SILVICULTURAL TRMT OPERATION PERIOD P/SpbeH.T. DF/Ann Slope Aspect | mastlyn Location Elevation | COMPACTION (Heavy) 🛛 🕽 PAST ACTIVITY COMPACTION (Light) UNDISTURBED MAMMAN **EXCAVATED SKID TRAIL** SMZ/ROCK (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 acitvity.

DISPLACED - Any place soil has been mounded by machinery, also include in heavy or light compaction.

SM7/BOCK/BI IBN DILE - Include within transact if within harvest unit

| | Transect 1 | | ransect 1 Transect 2 T | | Transe | Transect 3 | | Transect 4 | | t 5 | TOTALS | |
|--------------------|------------|-----|------------------------|-----|--------|------------|------|------------|------|--------------|--------|----|
| | Pts. | % | Pts. | % | Pts. | % | Pts. | % | Pts. | % | Pts. | % |
| D HEAVY | 31 | 5 | 10 | 4 | 3 | 2 | 6 | 4 | 38 | 8 | 82 | 5 |
| s LIGHT t | 347 | 51 | 140 | 55 | 10 | 47 | 85 | 55 | 282 | 60 | 924 | 56 |
| u UNDISTURB r | 229 | 37 | 105 | 41 | 77 | 51 | 64 | 41 | 150 | 32 | 625 | 38 |
| b PAST ACTIVITY | 4 | 1 | _ | | | | · | | | | 4 | ~/ |
| TOTALS | 611 | 100 | 255 | 100 | 150 | 100 | 155 | 100 | 470 | 100 | 1641 | |
| DISPLACED | 8 | 1 | 7 | 3 | 5 | -3 | 5 | 3 | 12 | ₹ 3 : | 37 | コ |
| EROSION | | | | | | | | | | | | |
| PUDDLED | | | | 15 | | | | | | | | |
| SMZ | | | | | | | , | | | | | |
| ROCK | | | | | | | | | | | | |
| BURN PILES | | | | | | | | | | | | |

Combining Courrent & past detrimental disturbance equals 6.5% for this activity unit 10/23/2002 Libby - North McSwede Unit 43 52904141

| 52904141 H ********************************* | SOIL DISTURBANCE M | | A. Jol: 4- |
|--|---|--|--|
| DATE 16/23/02 OBSERVER Kyennen | CUTTING METH | | 200 |
| DISTRICT Lible | If tractor: | dispersed | dedicated |
| SALE/S.A. Nincswede / | HAZARD TREAT | | |
| Unit # 43 Acres | SILVICULTURAL | | retterwood Improvement |
| | miffum OPERATION PE | | :02 Jul 20: |
| Slope //5-45 | | 5-5W | |
| Location mid | Elevation I | 3500 - 3900' | |
| LOCOMPACTION (Heavy) M | - N: N. | | |
| PAST ACTIVITY \ \ \ L' | 1 <u>L</u> | 2.7 | |
| COMPACTION (Light) | NAMBAI ⁹⁵ IMMI | UNDANDIN. 92 | |
| ØNNANA PARTO | ANS NO DE | XXXII 138 | |
| 그는 그는 그는 사람들이 하면 이 가입다. 수는 그는 그는 그는 그는 그는 것이 없다. | | A. 4명 및 1997보드 이 글로 등 하는 이 글로 | A Company of the Comp |
| UNDISTURBED AND AND | NAM CANAR | | |
| BANABAU "1 / NAB | | | |
| DISPLACED M // MLT | | | |
| DISPLACED [X] / XI [] | | | |
| EXCAVATED SKID TRAIL | | | |
| | | <u> Primit Primit Primit State (N. 1800) (1900</u> | |
| SMZ/ROCK | | | |
| meenstron coloT | M-1- Looks like | entaite de Herr | at Silverellers |
| associmately 4 old | skilling corri | desacrosothe | unite Lot of rock in |
| ffill. | | | |
| | | | |
| | | | |
| | | | |
| SHAPE OF UNIT AND PATTERN C | OF TRANSECT | | |
| | | | |
| 17 | 3 | | |
| | | | |
| Maria and Maria Maria | -11 / | | |
| 0 6 | IL IB F |) | |
| 1# 1 P | 15 | | |
| /E " | 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / | 1 | |
| a/b | 1 /1/4 | | |

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.

<u>UNDISTURBED</u> - No signs of any machinery or skidding acitvity.

DISPLACED - Any place soil has been mounded by machinery, also include in heavy or light compaction. SMZ/ROCK/RURN PILE - Include within transect if within harvest unit

| | Transect | 1 | Transec | t 2 | Transec | ct 3 | Transe | ct 4 | Transec | | TOT | |
|--------------------|----------|-----|---------|-----|---------|------|--------|------|---------|---|------|-----|
| | Pts. | % | Pts. | % | Pts. | % | Pts. | % | Pts. | % | Pts. | % |
| D HEAVY | 10 | 5 | 5 | 3 | 12 | 7 | // | 5 | | | 38 | 5 |
| s LIGHT | 95 | 45 | 92 | 60 | 95 | 53 | 138 | 57 | | | 420 | 54 |
| u UNDISTURB | 102 | 49 | 53 | 35 | 67 | 37 | 88 | 36 | _ | | 3/0 | 39 |
| b PAST ACTIVITY | 3 | .1 | 3 | 2 | de | 3 | 16 | _2_ | | | 18 | 2 |
| TOTALS | 210 | 100 | 153 | 100 | 180 | 100 | 243 | 100 | | | 186 | 100 |
| DISPLACED | 10 | 3 | 3 | 2 | 1.5 | 8 | 15 | , le | | | 43 | 5 |
| EROSION | | | | | | | | | | | | |
| PUDDLED | | | | | | | | | 2.7% | | | |
| SMZ | | | | | | | | | | | 1,51 | |
| ROCK | | | | | | | | | | | | |
| BURN PILES | | | | | | | | | | | | |

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

10/23/2002 Libby - North McSwede Unit 44 52904142

32404142 **KOOTENAI NATIONAL FOREST**

SOIL DISTURBANCE MONITORING FORM

| Slope broke | mid, | CUTTING ME SKIDDING M If tractor: awford AZARD TRE SILVICULTUI DF/10PERATION Belevation I | ETHOD 1/ disp EATMENT Lop RAL TRMT LT PERIOD S | ersed ter | dedicated |
|------------------------------|---|--|--|---|--|
| PAST ACTIVITY | r LIF | 198 | a rash rash a | 831 | NA HOLLO |
| COMPACTION (L Disturbance | ight) | MML IMM | | N M M M M M M | |
| UNDISTURBED | | ANC NA | NA 155 | | - Control of the cont |
| DISPLACED _ | <i> </i> . | | | | |
| EXCAVATED SK | D TRAIL | | | | |
| SMZ/ROCK | | 1000 C 100 C | | S | · |
| North continuo | en of unthato 2 1 (323), No relief a seed | old activity () yolismin as tree. Left P dout what, | Lide Shiller | pad drainage, other po). Soil - doep J ultural trial if they were | mentles LTN |
| SHAPE OF UNIT | AND PATTERN OF T | RANSECT | | | |
| | | 10 | 44 | 4768G 44) | 12 |

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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DISPLACED - Any place soil has been mounded by machinery, also include in heavy or light compaction.

SM7/ROCK/RIPN PILE - Include within transact if within harvest unit

| | Transec | t 1 | Transec | t 2 | Transec | ct 3 | Transe | ct 4 | Transec | | TOT | |
|--------------------|---------|--------|---------|-----|---------|------|----------|-------------|----------|----------------|------|-----|
| | Pts. | % | Pts. | % | Pts. | % | Pts. | % | Pts. | % | Pts. | % |
| D HEAVY | 10 | 7 | 8 | 6_ | 8 | 4 | | | | t . | 26 | 6 |
| s LIGHT | 78 | 58 | 83 | 58 | 110 | 62 | | 1 1 | | | 271 | 59 |
| u UNDISTURB | 42 | 31 | 48 | 33 | 55 | 3 [| | | | | 145 | 32 |
| b PAST ACTIVITY | 5 | 4 | 5 | 3_ | ځ | 3 - | | | | | 15 | 3 |
| TOTALS | 135 | 100 | 144 | 100 | 178 | 100 | | | | | 457 | 100 |
| DISPLACED | 5 | 4 | 4 | 3 | 8 | 4,4 | (A) | 1. 1 | | 2/1/2 | 17 | 4 |
| EROSION | | | | | | | | | | | | |
| PUDDLED | 4.54.62 | 1771.5 | | | | | 45,840,8 | | Age as A | Market Control | | |
| SMZ | | | | | | | | | | V. 40 () | | |
| ROCK | | | | | | | | | | | | |
| BURN PILES | | | | | | | | | | | | |

Combining current and past detrimental disturbance equals 90 for this activity area.

08/27/2002 Libby - North McSwede Unit 52 53101090

echeck

*******KOOTENAI NATIONAL FOREST** SOIL DISTURBANCE MONITORING FORM

| | DATE 8,27.02 CUTTING METHOD clipper saw head |
|---------------|--|
| | OBSERVER Knamen SKIDDING METHOD // RTS graple DISTRICT Libby If tractor: dispersed / dedicated |
| | SALE/S.A. A. M. Sweds / Don Chandra HAZARD TREATMENT YDT |
| • | Unit # 32 Acres / II SILVICULTURAL TRMT / LTM - fook Dr Ingrovener H.T. DF/Carw - DF/ARUVOPERATION PERIOD Oct/Nov. 'O/ |
| } | Slope $\sqrt{5-15}$ Aspect $ SW \rightarrow WSW$ |
| , | Location upper Elevation 1 4440 - 4520 COMPACTION (Heavy) |
|)oury | |
| i. | PAST ACTIVITY A 16 35 A 111 COMPACTION (Light) A A A A A A A A A A A A A A A A A A A |
| ' l | COMPACTION (Light) MENTALANA MANAMANA (Light) ES MINIMANA MANAMANA MANAMANA MANAMANA MANAMANA |
| | 90 |
| ſ | UNDISTURBED WWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWW |
| | 8 |
|) | DISPLACED 73 |
| | EXCAVATED SKID TRAIL old trail |
| | |
| • | SMZ/ROCK |
| l | COMMENTS (Include soil, geology, organic debris-large & small, erosion, road drainage, other pertinent info) |
| | Unit has been logged at least turke before. Hard to tell what past |
| | a Inters active in lower part Junit |
| " OF BURNES - | Laborary not part of unit-located off rd. fell. |
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| • • | |
| - | |
| _ | SHAPE OF UNIT AND PATTERN OF TRANSECT |
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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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DISPLACED - Any place soil has been mounded by machinery, also include in heavy or light compaction. SM7/ROCK/RURN PILE - Include within transect if within harvest unit

| | | wer | Transect | 22 | Transe | ct 3 | Transe | ct 4 | Transec | t 5 | TOT | ALS |
|--------------------|-----------------|-----|----------|-----|--------|------|--------|--------|---------|---------|------|-----|
| | Transec Pts. | % | Pts. | % | Pts. | %_ | Pts. | % | Pts. | % | Pts. | % |
| D HEAVY | 25 | 1/ | 25 | 12 | | | | | | | 50 | 11 |
| s LIGHT | i [] | 47 | 88 | 42 | | | | | | | 199 | 45 |
| u UNDISTURB | 90 | 38 | 86 | 41 | | | | 1 | | | 176 | 39 |
| b PAST ACTIVITY | 10 | 4_ | 2// | 5 | | | | 14 | | | 21 | 5 |
| TOTALS | 236 | 100 | 210 | 100 | | 7. T | | 4 T 14 | | | 446 | 100 |
| DISPLACED | 8 | 3 | 387.1 | | | | | | | | 8 | 2 |
| Wshed Trai | 15 | 2 | | | - 1 | | 1. 1. | | | | 5 | 1 |
| PUDDLED | | | | | | | | | | - 1 Mg- | | |
| SMZ | | | | | | | | | | . P. | | |
| ROCK | | | | | | | | | | | | |
| BURN PILES | | | | | | | | | | | | |
| | | | | | | | | | | | | |

10/23/2002 Libby - North McSwede Unit 55 53101096

53101096

KOOTENAI NATIONAL FOREST SOIL DISTURBANCE MONITORING FORM

| DATE 10,23,02 | CUTTING METHOD Sawhead Elipper Times | |
|---|--|-----------|
| OBSERVER Commen | CUTTING METHOD Sawhiel Clyph Times SKIDDING METHOD & TO GRANDO P | |
| DISTRICT Libby | If tractor: dispersed dedicated | |
| SALE/S.A. N. McSwede / Crawf | OLL HAZARD TREATMENT | |
| Unit # 55 Acres | SILVICULTURAL TRMT LTM Improvements | |
| H.T. DELArun - DELEGE | OPERATION PERIOD Nov. '01 | |
| Slope 5-30 | Aspect SW - W | |
| Location mil , | Elevation 3500 - 3650 | |
| COMPACTION (Heavy) / | | |
| | | |
| PAST ACTIVITY O | 72 300 000000000000000000000000000000000 | |
| COMPACTION (Light) Ø Ø Ø Ø Ø Ø | | |
| | | |
| UNDISTURBED Ø Ø Ø Ø Ø Ø | CINGA 54 54 A 13 | |
| UNDISTURBED AND MAN A | | |
| <u> </u> | | |
| DIODI ACED | | |
| DISPLACED 7 | the state of the s | |
| EVOAVATED CIVID TOAH | | |
| EXCAVATED SKID TRAIL | | |
| CM7/DOCK | | |
| SMZ/ROCK | | |
| COMMENTS (Include soil, geology, orga | anic debris-large & small, erosion, road drainage, other pertinent info) | |
| lamp, roadused to accer la | aling-put to bed ~ (boyds long recontoyred) | |
| Soil - mifting of glagest til | A residual. Alat of english schriftenoch. | |
| 7 - 7 | it to writ 56 totally recontoured. | |
| not much volumerem | sved from unt. | |
| 13 of shidling uphill | | |
| | | <u></u> - |
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| 41.4 | | <u> </u> |
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| SHAPE OF UNIT AND PATTERN OF TRA | NSECT | |
| Å | | |
| 1i | | |
| | | |
| IN (59/11 | | |
| | | |
| | temp, road recontoured | |
| | (Who), John San Jan | |
| (8) | line 🗸 kalang kalanggan panggan kalanggan kal | |
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| | 그 그 가는 그가 가는 일상 이번에 보고 있다면 사람들이 되었다. | |
| | and the second | |
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| 55 | | |
| COMPACTION (Heave) - Any place where | future vegetative grouth will be cignificantly be a seed in the second | |
| COMPACTION (Heavy) - Any place where to | future vegetative growth will be significantly impacted, i.e., skid trails (both | |

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 acitvity.

DISPLACED - Any place soil has been mounded by machinery, also include in heavy or light compaction.

| | Transect 1 | | Transec | t 2 | Transe | ct 3 | | | Transec | | TOTALS | |
|--------------------|------------|-----|---------|-----|--------|------|------|---|---------|--|----------------------|--|
| | Pts. | % | Pts. | % | Pts. | % | Pts. | % | Pts. | % | Pts. | % |
| D HEAVY | 3 | 2 | 3 | 2 | | | | | , e . e | | 6 | 2 |
| s LIGHT | 90 | 59 | 72 | 48 | | | | | · | i i i i i i i i i i i i i i i i i i i | 162 | 53 |
| u UNDISTURB r | 60 | 39 | 73 | 49 | · | | | | | | 133 | .44 |
| b PAST ACTIVITY | 0 | D | 2 | 1 | | | 1.5 | | | | 2 | 1 |
| TOTALS | 153 | 100 | 150 | 100 | | | | 1 | | | 303 | 100 |
| DISPLACED | 8 | 5 | 0 | Ö | | Y | 7.9% | | KI SA | 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1 | 8 | <i>3</i> |
| EROSION | | | | | | | | | | | | |
| PUDDLED | | | : | | | | | | | Salar A | | |
| SMZ | | | | | | | | | | skerej (sk. | Janes Service States | |
| ROCK | . " | | | | | | | | | | | |
| BURN PILES | | | | | | | | | | | | The state of the s |

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

08/27/2002 Libby - North McSwede Unit 57 53101098

100 m 5 31 Conf. 098 -

KOOTENAI NATIONAL FOREST SOIL DISTURBANCE MONITORING FORM

| | DATE 8,27.02 CUTTING METHOD chipper-sawked |
|----------------------------------|---|
| / / C | DBSERVER Kuennen SKIDDING METHOD // |
| | SALE/S.A. N. Mc Swede D. Crowfort AZARD TREATMENT DI |
| | Unit # 57 Acres 45 SILVICULTURAL TRMT LTM - took worth DF |
| | H.T. DF/Phma - DF/Caru OPERATION PERIOD //AV. 10/ |
| | Slope 25-30 Aspect 55E Location will Elevation 3750-4000 |
| weri c | COMPACTION (Heavy) M M M M M |
| | AST ACTIVITY |
| 1 0 | COMPACTION (Light) ANDREAD ANDREAD ANDREAD ANDREAD 340 |
| | ar Guarante <u>en en el 1848, en en e</u> marente en |
| 21 | NDISTURBED AND AND AND AND AND AND AND AND AND AN |
| a | ISPLACED 🔯 13 |
| ·E | XCAVATED SKID TRAIL |
| S | MZMOCK);; {{; |
| G | OMMENTS (Include soil, geology, organic debris-large & small, erosion, road drainage, other pertinent info) |
| <u> </u> | 15 of surface rock. also lots of small platy webring soil prof |
| | Nest half of unthrole residual soils east half mostly till. No sur |
| <u>-</u> | och on bakt half. |
| | the no surface rock. |
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| | IAPE OF UNIT AND PATTERN OF TRANSECT |
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| | MAPE OF UNIT AND PATTERN OF TRANSECT |
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| <u>S</u> | HAPE OF UNIT AND PATTERN OF TRANSECT |
| SH | HAPE OF UNIT AND PATTERN OF TRANSECT |
| <u>S</u> | HAPE OF UNIT AND PATTERN OF TRANSECT |
| <u>S</u> + | (3) |
| | MPACTION (Heavy) - Any place where future vegetative growth will be significantly impacted, i.e., skid trails (both |

COMPACTION (Light) - Any other area not included in heavy COMPACTION or UNDISTURBED.

DISPLACED - Any place soil has been mounded by machinery, also include in heavy or light compaction.

<u>UNDISTURBED</u> - No signo of any machinery or skidding acitvity.

| | ſ | Transect | 1 | Transec | t 2 | Transe | ct 3 | Transe | ct 4 | Transec | | TOT | |
|------|-----------------|----------|-----|---------|-----|--------|---------|--------|----------|---------|--------|------|-----|
| | | Pts. | % | Pts. | % | Pts. | % | Pts. | % | Pts. | % | Pts. | % |
| DHE | AVY | 48 | 8 | 42 | 6 | | | | | | : | 90 | 7 |
| s Li | GHT | 303 | 52 | 360 | 53 | | | | <u> </u> | | | 663 | 52 |
| u Ul | NDISTURB | 230 | 40 | 283 | 41 | | | | | | | 513 | 4) |
| b P/ | AST ACTIVITY | | | | | | | | | | | | - |
| T | OTALS | 581 | 100 | 685 | 100 | | 267 F 1 | | | | 1 | 266 | 100 |
| D | ISPLACED | 13 | 2 | 11 | 2 | | | 1.5 | 1000 | X Y S W | 10.0 | 24 | 2 |
| E | ROSION | | | | | | | | | | | | |
| P | UDDLED | | | | | | | | | | No. of | | |
| SI | MZ | | | | | | | | | , | * #1 * | | |
| R | оск | 4 | | 2 | | | | | | | | | |
| | URN ILES | | | | | | | | | | | | |

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55302038 - 35A 55302051 - 43A

09/25/2002 Libby - Barron Jack Salvage Unit 3B

KOOTENAI NATIONAL FOREST SOIL DISTURBANCE MONITORING FORM

55302038 55302051

| *** | DATE 9,75.02 CUTTING METHOD | A < |
|-----------|--|--|
|) | D, (12 | clipper |
| Carrier . | OBSERVER July of Chapte SKIDDING METHOD | // KT3 |
| | DISTRICT Libby / Ballings If tractor: | dispersed dedicated |
| | SALE/S.A. Barron Jack / Cranford HAZARD TREATMENT | |
| | Unit # 3 Acres / 35/443 SILVICULTURAL TRMT | |
| | H.T. SAF/Mele (531) OPERATION PERIOD | Aug/Sept. '02 |
| | Slope Aspect NE | |
| | Location upper Elevation 4500 COMPACTION (Heavy) | -4600 |
| | COMPACTION (Heality) 2 2 2 2 3 | |
| | PAST ACTIVITY | |
| - | COMPACTION (Light) M M M M M M M M M M M M M M M M M M M | 1 2 2 2 1 176 |
| | OUNI ACTION (Light) A D A A C C C | |
| • | | |
| - | UNDISTURBED 网络克拉拉拉拉拉拉拉拉拉拉拉拉拉 169 | |
| | | |
| | | |
| | DISPLACED 5 | |
| _ | | |
| +- | EXCAVATED SKID TRAIL | |
| - | SMZ/ROCK ② 1 | |
| | SMZ/HOCK O | |
| - | COMMENTS (Include soil, geology, organic debris-large,& small, eros | sion road drainage other pertinent infol |
| | There was a concern that for mu | the de a place and level |
| | occurring Impacts could have be | en leak but generally were |
| - ' | not too /bad. | the property will be the |
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| 3 | SHAPE OF UNIT AND PATTERN OF TRANSECT | PARTY |
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| | 17) /// | CALIFICATION AND LAND |
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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.

 $\underline{\text{UNDISTURBED}}$ - No signs of any machinery or skidding acitvity.

DISPLACED - Any place soil has been mounded by machinery, also include in heavy or light compaction.

| | Transec | t 1 | Transect | 2 | Transect | 3 | Transe | ct 4 | Transec | t 5 | TOT | ALS |
|------------------|---------|------|----------|---|----------|---|--------|------|---------|------------|------|-----|
| | Pts. | % | Pts. | % | Pts. | % | Pts. | % | Pts. | % | Pts. | % |
| D HEAVY/ | 1/3 | 3/4 | | | | | | | | | 3//3 | G |
| s LIGHT t | 27 | 54 | | | | | | | | , <u>-</u> | 200 | 54 |
| u UNDISTURB r | 13.6 | 37 | | | | | | | | | 15.5 | 3.7 |
| b TOTALS | 349 | 10-1 | | | | | | | | | 348 | 100 |
| | | | | | | , | | | | • | | |
| DISPLACED | 15 | 4 | | | | | | | | | 15 | 4 |
| EROSION | | | | | | | | | | | 7.7 | |
| PUDDLED | | | | | | | | | | | - | |
| SMZ | | | | | | | | | | | | |
| ROCK | | | | | | | | | | | | |
| BURN PILES | | | | | | | | | | | | |

Combining Surrent and just letrimental Festivane Equals 9 Topin this activity area.



10/25/2002 Libby - Alexander Salvage Unit 7 55101025

55101025

KOOTENAI NATIONAL FOREST SOIL DISTURBANCE MONITORING FORM

| DATE | 10.25.02 | CUTTING METHOD | sow head | differ |
|---------------------------------------|---------------------------------------|--|--|--|
| OBSERVER DISTRICT | Lufnnen | SKIDDING METHOD If tractor: | RT S | |
| SALE/S.A. | Cibby 15 | II (racior. mis- HAZARD TREATMEN) | dispersed | dedicated |
| Unit # 7 | Acres 9 | SILVICULTURAL TRM | | |
| | hma/DF/Cage | -1/DE OPERATION PERIOD |) | yrorement. |
| Slope | 10-20 | L bo Aspect I L W | 4 E. | ya od |
| Location | mid 190 | 7 gElevation 1 36 | 00 -3700 | |
| COMPACTIO | | | | |
| | 101 - 13 | 1 3 | | |
| PAST ACTIVI | | 124 | (B) 10 24 | The state of the s |
| istin COMPACTIO | Light) XXXX | | MAL | |
| 3 BM M M | NAMANN | | | |
| UNDISTURBE | DUNKARKA | MMMMMMMMM | MIT BAILS | |
| ON NO NI | XIXIXIX XI 90 | DAD - HADA AM | EX CU EXI | |
| | 17 1 _ 4 | ' 1 3 | | |
| DISPLACED | XII''/17° | | | |
| | 7 | | | |
| EXCAVATED | SKID TRAIL | · · · · · · · · · · · · · · · · · · · | | |
| SMZ/ROCK | | | The state of the s | en e |
| SMZ/ROCK_ | | | | |
| he old fro | loased before - 5 | organic debris-large & small, er | OFIPP marked | for leave. Some |
| out | to bed, | I have spenial | ea par wy | The Money was |
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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 acitvity.

DISPLACED - Any place soil has been mounded by machinery, also include in heavy or light compaction.

| | | | | <u> </u> | Transec | ct 3 | Transec | et 4 | Transec | t 5 | TOTALS | |
|--------------------|---------------------------------------|-----|---------|---------------------------------------|--|------------|---------------------------------------|------------|---------------------------------------|----------------|----------------|----------------|
| | Transect | | Transec | t 2 % | Pts. | % | Pts. | % | Pts. | % | Pts. | % |
| | Pts. | % | Pts. | | FIS. | | | | | 1, 955 | ~~ | اسر |
| D HEAVY | 19 | 1. | 7 | 3 | ク | 5 | | . <u> </u> | | | 28 | _5_ |
| i LICUT | | _6_ | - | · · · · · · · · · · · · · · · · · · · | /2 | | | | | | 248 | 42 |
| s LIGHT | 124 | 31 | 100 | 48 | 24 | <i>5</i> 7 | | | | | 270 | 72 |
| u UNDISTURB | 178 | 53 | 90 | 43 | 1.3 | 31 | A. S. | | ADAR TOR | | 281 | 48 |
| b PAST | 13 | 4 | 13 | 6 | 3 | 7 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | and the second | 29 | 5 |
| ACTIVITY TOTALS | 13 | | | | | | | 14.5 | | | 586 | 100 |
| IOIALS | 334 | 100 | 210 | 100 | 142 | 100 | 10 <u>11 11 1</u> | | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 2737 . W. C. | | 100 |
| DISPLACED | 17 | 5 | 8 | 4 | 3 | 7 | | | | | 28 | 5 |
| EROSION | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | | | | | | | | | Vw | | |
| PUDDLED | | | | | | | | | | | | |
| PODDLED | | | | | <u> </u> | | | | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | - |
| SMZ | | | | | | | | | | | | |
| | | 1 | | | <u> </u> | | 1 | | | | | |
| ROCK | | | | | | | | | | | | |
| BURN PILES | | | | | | | | | | | | |
| | | | | <u> </u> | | 1 | <u>.l</u> | | | 9 5 9 5 FX X | orthographic A | ' |

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 | CUTTING METHOD | | dieser | |
|--|--|---------------------------------------|---------------------------------------|--|--|
| DATE OBSERVER | 1777 | CUTTING METHOD SKIDDING METHOD | Sawherd | agger | |
| DISTRICT | Libby | If tractor: | dispersed | dedicated | 1 |
| SALE/S.A. | | | | story burn | : - |
| | 5 A Acres 8 | SILVICULTURAL TRI | | SW Seed /r | 940-4-4 |
| H.T. 10 | FI Phma - DF/Syal | OPERATION PERIO | | Jul :02 | |
| Slope | 15-40 | Aspect I | | 1 | |
| Location | lower n. 3 | | too 1 | | |
| | ON (Heavy) X | · // | * * * * * * * * * * * * * * * * * * * | | 1.4.1 |
| 17 47 47 30 17 | | | | A STATE OF S | MADE: |
| PAST ACTIV | ITY L 5 1 : 2 | | | | 25,380 S |
| COMPACTIO | N (Light) N N N N N N N | | 140 | | |
| $\mathbf{X}\mathbf{X}\mathbf{X}\mathbf{X}$ | ANNINT 83 | , , , , , , , , , , , , , , , , , , , | a emiliar se | San de francis Marcoll Paris Va | C-144 - 1 |
| | | | | vala an english. | Mark Land |
| UNDISTURB | ED MANNANA | MANANA M | 50 | | |
| MARK | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 27 | | | A Commence of the Commence of |
| | 90 | | - | | |
| DISPLACED | $\bowtie \bowtie \mid$ | | | | Villa de la |
| | <u> </u> | | | | |
| EXCAVATED | SKID TRAIL | | | | 6 (4) |
| CN7/DOOK | | | | | |
| SMZ/ROCK | • | | | | Control of the Contro |
| COMMENTS | (Include soil, geology, organi | a dobrie large & small e | rocion, road draina | an other participant is | ofa\ |
| Unitivas | (include soil, geology, organi | wass. Elecut | | | 10) |
| unii was i | | Ch Loohslike | Tell moras | not, no vole | annask |
| Loug am | ount of volume 1 A | | ense repr | A (1.22- 02 | |
| nom lis | to The | removed, V | eron ragio | vo aceno se | ouvering |
| A Dat 6 | mosewed presen | t an roads. P | robobly a l | Aumo eciti | to al. to |
| hornest | units, Talread | | SKW leaves | a sord and | moving |
| up hell. | | | Sirker Are and the | 7 | 2 min o oray |
| | so generally to | - token atte | no but c | orsenesso | 1 soil |
| mater | iel will minimin | e or eliminate | lang over | land Llow | |
| | Land the transfer of the | | | | History M. |
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| SHAPE OF U | NIT AND PATTERN OF TRAN | SECT | | <u> Paragonal Albert</u> | |
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| | | | 13 | (4) | |
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<u>OMPACTION (Heavy)</u> - 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. <u>COMPACTION (Light)</u> - Any other area not included in heavy COMPACTION or UNDISTURBED.

<u>UNDISTURBED</u> - No signs of any machinery or skidding acitvity.

DISPLACED - Any place soil has been mounded by machinery, also include in heavy or light compaction.

SM7/ROCK/BLIRN PILE - Include within transact if within harvoot unit

TRANSECT SUMMARY FORM TOTALS Transect 5 Transect 4 Transect Transect 3 Transect % Pts. % Pts. % Pts. % Pts % Pts. Pts. D HEAVY 15 s LIGHT *22*3 83 39 140 **UNDISTURB** 53 59 127 49 b PAST 2 5 **ACTIVITY TOTALS** 215 307 100 100 100 DISPLACED 20 20 **EROSION PUDDLED** SMZ ROCK 0 ュ **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 KOOTENAL NATIONAL FOREST

9,12,134,32

KOOTENAI NATIONAL FOREST SOIL DISTURBANCE MONITORING FORM

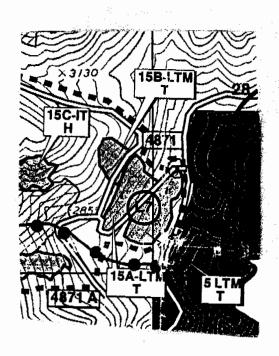
| DATE 10, 25, 02 CUTTING MET | HOD Sawhead Clinner |
|--|--|
| OBSERVER Kuennen SKIDDING MET | |
| DISTRICT Libby If tractor: | dispersed dedicated 4 |
| SALE/S.A. Alexander / Farmer HAZARD TREA | |
| Unit # 15 B Acres 4 SILVICULTURA | |
| H.T. DF/Phma OPERATION F | |
| Slope //5-25 Aspect | 58 |
| Location lawer Elevation | 3400-3500 |
| COMPACTION (Heavy) 21 7 | |
| PAST ACTIVITY | |
| COMPACTION (Light) DINDIN NO 80 | |
| MANANI 18 | |
| | The second secon |
| UNDISTURBED A A A A A A L 15 | |
| | |
| | |
| DISPLACED | |
| | |
| EXCAVATED SKID TRAIL | |
| SMZ/ROCK [_ 5] | |
| SWIZITOCK [| |
| COMMENTS (Include soil, geology, organic debris-large & sr | nall erosion road drainage other pertinent info) |
| Clarial debris soils-no volcanicas | A surface Convert Southout Smill |
| rochout Crops. Helena Formation, LT 3. | 24 |
| Upper end of second shed trail for | n north side of unit soorly located. |
| Illising from well no alone to low | in water book waterband while |
| | see slage we us outlet. |
| Does not appear operator has a good | handle an waterbars and for poor |
| mochine for the job. | |
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| | [9-5- |
| SHAPE OF UNIT AND PATTERN OF TRANSECT | |
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| | (SD) |
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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 acitvity.

<u>DISPLACED</u> - Any place soil has been mounded by machinery, also include in heavy or light compaction. SMZ/ROCK/BUBN PILE - Include within transect if within harvest unit

| ſ | Transect | 4 | Transec | t 2 | Transec | t 3 | Transe | ct 4 | Transec | t 5 | TOT | ALS |
|--------------------|----------|------|---------|-----|---------|-----|--------|------|---------|----------|------|-----------|
| | Pts. | % | Pts. | % | Pts. | % | Pts. | % | Pts. | % | Pts. | _% |
| D HEAVY | 7 | 4 | 5 | 4_ | | | | | | | 12 | 4 |
| s LIGHT t | 80 | 50 | 68 | 51 | | | | | | | 148 | 53 |
| u UNDISTURB r | 15 | 46 | 47 | 39 | | | | | | | 122 | <u>43</u> |
| b PAST ACTIVITY | | | | | | | | | | | | |
| TOTALS | 162 | 10-0 | 120 | 100 | | | | | | | 282 | 100 |
| DISPLACED | 3 | 2 | 0 | 0 | 4 . | | | | | | 3_ | 1 |
| EROSION | | | | | | | | | | | | |
| PUDDLED | | | | | | | | | | . No see | | |
| SMZ | | | | | | | | | | | | |
| ROCK | 5 | 3 | 1 | 0 | | | | | | | 6 | 2 |
| BURN PILES | | | | | | | | | | | | |
| | | | J | L | | | | | | | | 1 |



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

KOOTENAI NATIONAL FOREST SOIL DISTURBANCE DATA FORM

| DATE June 18, 2102 | CUTTING METHOD Clipper |
|---------------------------------|---|
| OBSERVER Kuennen / Gott | skidding method RTS |
| DISTRICT Fortine | HAZARD TREATMENT WTY - burn landings |
| SALE Roberts Mut | SILVICULTURAL TREATMENT Improvements SI |
| H.T 250 As - NE | OPERATION PERIOD Summer OO |
| Ele- 3200 | |
| COMPACTION(Heavy) | Walk-Through |
| | |
| COMPACTION(Light) | |
| UNDISTURBED | |
| DISPLACED | |
| EXCAVATED SKID TRAIL_ | |
| SMZ | |
| COMMENTS | |
| acolle Dones | |
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| SHAPE OF UNIT AND PATTERN OF TR | ANSEGI |

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.

06/18/2002 Fortine - Roberts Mountain Unit 7 32204094

32204214 KOOTENAI NATIONAL

KOOTENAI NATIONAL FOREST SOIL DISTURBANCE DATA FORM

| DATE June 18, 2002 | CUTTING METHOD cliquer |
|--|---|
| OBSERVER Juenney/Gott | SKIDDING METHOD PTS |
| DISTRICT Fortine | HAZARD ABATEMENT WTY - burning landings |
| SALFRoberts Mut | SILVICULTURAL Improvements SD-LP-D |
| Unit No. 7 55A 7-312 El-3400 As-SW SA | OPERATION PERIOD Summer 00 |
| COMPACTION(Heavy) | ope 15-25 |
| COMPACTION (Light) | Water Through |
| COMPACTION (Light) | |
| UNDISTURBED | |
| DISPLACED | |
| | |
| EXCAVATED SKID TRAIL | |
| SMZ/ROCK | · · · · · · · · · · · · · · · · · · · |
| Part of range review | - Cattle use noted along paths / trail |
| Can see cattle use al | my where graning can becut |
| impact been - wheel | rate that use from the human |
| | '/ / ' |
| | |
| | |
| Shape of Unit and Pattern of Transect | |

06/18/2002 Fortine - Roberts Mountain Unit 8 32204095

ろメグンカンノー KOOTENAI NATIONAL FOREST

SOIL DISTURBANCE DATA FORM

| RICTFORTINE HAS Roberts Mountain SII Init No. 9 33A | ARD TREATMENT WTY - burn landing VICULTURAL TREATMENT Improvement SD-LP- RATION PERIOD Summer '98 Walk-Through |
|---|---|
| Roberts Mauntain SII Juit No. 8 33A OPI 12, Slope-5-10%, Ele. 3500; As- ACTION(Heavy) ACTION(Light) STURBED JATED SKID TRAIL | VICULTURAL TREATMENT Improvement SD-LP- RATION PERIOD Summer '98 |
| Jait No. A 33A OPI 12, Slope-5-10%, Ele.: 3500; As- ACTION(Heavy) ACTION(Light) STURBED JATED SKID TRAIL | RATION PERIOD Summer 198 |
| OPI 12, Slope-5-10%, Ele. 3500; As- ACTION(Heavy) ACTION(Light) STURBED ACED VATED SKID TRAIL | |
| ACTION(Heavy) ACTION(Light) STURBED ACED VATED SKID TRAIL | Walh-Through |
| ACED | |
| ACED | |
| ATED SKID TRAIL | |
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| ENTS cattle use seen alor | |
| paths. Cattle use seen alor | |
| | g shidtrail in the form |
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| C 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.

05/15/2002 Fortine - West Sunday Unit 34 34607032

34607080 ROOTENAL NATIONAL FOREST SOIL DISTURBANCE DATA FORM

| DATE May 15, 2002 | CUTTING METHOD Clipper |
|---|------------------------------------|
| JOBSERVER Luennen | SKIDDING METHOD |
| DISTRICT Fortine | HAZARD TREATMENT noburn |
| SALE West Sunday Unit No. 34 3/Acres | SILVICULTURAL TREATMENT <u>LTM</u> |
| SAF/Mele | OPERATION PERIOD winter |
| COMPACTION(Heavy) | walk-through |
| COMPACTION(Light) | |
| UNDISTURBED | |
| DISPLACED | |
| EXCAVATED SKID TRAIL | |
| SMZ | |
| COMMENTS | |
| | |
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| Part of resoustation reve | ew |
| SHAPE OF MIT 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.

05/15/2002 Fortine - Murphy Unit 6 32701052

KOOTENAI NATIONAL FOREST SOIL DISTURBANCE DATA FORM

32701052

| | DATE May 15, 2002 | CUTTING METHOD lepper |
|----|---|--|
| - | OBSERVER Kuennen | SKIDDING METHOD |
| | DISTRICT Fortine | HAZARD TREATMENT understory burn spring '01 |
| | SALE Murphy | SILVICULTURAL TREATMENTS Kelterwood) SW Seek |
| DI | Unit No. 161 Acres | OPERATION PERIOD winter '98 |
| t | (J-29) Slape-25-40% Ele-3 | 3900 As-SW Walk-Through |
| | COMPACTION(Light) | |
| | UNDISTURBED | |
| | DISPLACED | |
| | EXCAVATED SKID TRAIL | |
| | SMZ | |
| | COMMENTS Planted to PP the Secrification | ere was some secondary |
| | | |
| | Part of referentation restation of transections | r |

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.

44601324/44602217 44601324/4KOOTENAI NATIONAL FOREST
SOIL DISTURBANCE DATA FORM

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

| DATE 5/29/2002 | CUTTING METHOD Nand |
|--|---|
| OBSERVER Kurnen | SKIDDING METHOD Tractic |
| DISTRICT Thee Rivers | HAZARD TREATMENT understong burn spring "C |
| SALE Callehan (10+11) Unit No. 29D 21 Ac | SILVICULTURAL TREATMENT LTA SW Seedfress |
| WH/Chun 3900-340 | OPERATION PERIOD Summer 'O/ |
| 5-30% slupe NE COMPACTION (Heavy) | Operation period summer '01 Walk-Through |
| COMPACTION(Light) | |
| UNDISTURBED | |
| DISPLACED | |
| EXCAVATED SKID TRAIL | |
| SMZ | |
| COMMENTS Planty WL + PP | |
| - Claring till over good mostly ridge top, but in | ash ask ME +S |
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| Partala represtation | review |
| SHAPE OF UNIT AND PATTERN OF TRANSE | CT |
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| GOWD CONTON (V | |
| impacted, i.e., skid trails (both he | future vegetative growth will be significantly eavily 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.

42705103/42702116

42705103/42/162/16 42705103/42 KOOTENAI NATIONAL FOREST Three Rivers - Fowler Thinning Restock #1 SOIL DISTURBANCE DATA FORM

| PATE 5/29/2002 | CUTTING METHOD |
|---|---|
| OBSERVER Kuennen | SKIDDING METHOD |
| DISTRICT Three Rivers | HAZARD TREATMENT |
| SALE Forder thinning restock 1 | SILVICULTURAL TREATMENT |
| WRC/Clup (4415) Waspert 4100 ele- COMPACTION (Heavy) | operation period 15-30 to slope Walk-Through |
| COMPACTION(Light) | |
| UNDISTURBED | |
| DISPLACED | |
| EXCAVATED SKID TRAIL | |
| SMZ | |
| Through regrowth and be stand was precommerce Appears that long piling Detrimental impacts of Planted Wh (40) DF(40) Grosses responding aft | 1999 1979 2000 Fowler Fire backets Il some of the regen. Ally this sed in 1999. actioned following the 1979 logging usted. + PP (20) a fire - 12" scalps. |
| SHAPE OF UNIT AND PATTERN OF TRANSECT | renew |
| Rd 6065 | |
| | |
| COMPACTION(Heavy) - any place where finpacted, i.e., skid trails (both hea | neare vegetative growth will be significantly vily 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.

(30A) (36A) SOIL DISTURBANCE DATA FORM

05/29/2002 Three Rivers - Fish Fry Fire Salvage Unit 66B

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

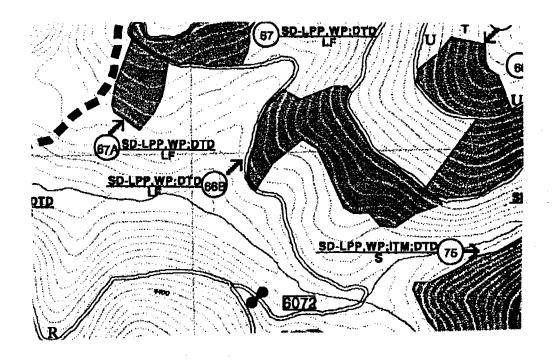
| DATE 5/29/2002 | CUTTING METHOD Olygon |
|--|--|
| OBSERVER Luinnen | SKIDDING METHOD RIS |
| DISTRICT Thee Rivers | HAZARD TREATMENT Scottered grangle piles |
| SALE Fish Fry Fire Salvage | SILVICULTURAL TREATMENT For Solvage Sanctetion Sa |
| Unit No. 66 B 82 Acres WH/Clun | OPERATION PERIOD winter '96 |
| 30-45% slope 4200-4400 ele. COMPACTION (Heavy) | Walk-through |
| | 4 |
| COMPACTION(Light) | |
| UNDISTURBED | |
| DISPLACED | |
| EXCAVATED SKID TRAIL | |
| SMZ | |
| Trails Solvage occurred What hold hilled lin fire wer | en the wenter Very few skid acts years low. When when were |
| Now seedling lanked very | grad. |
| Dead LP was removed in WL, ES, WP planted about | 1990 burnellen 1994 equally |
| SHAPE OF UNIT AND PATTERN OF TRANSECT | review |

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.



07/31/2002 Three Rivers - Wood Rat Unit 26A, 26B 42304154

KOOTENAI NATIONAL FOREST SOIL DISTURBANCE DATA FORM

| DATE July 31, 2002 | CUTTING METHOD Clipper-Sawheal |
|--|------------------------------------|
| OBSERVER Knennen | SKIDDING METHOD |
| DISTRICT Mree Rivers | HAZARD TREATMENT Jackpat burn |
| SALE Wood Rat | SILVICULTURAL TREATMENT ITM SD-LP |
| Unit No. 26 A (21) 24 Acres) H/(lun 26 B(3) | OPERATION PERIOD Jan-Feb. 2000 |
| 150-3650 | Walk-Through |
| COMPACTION(Heavy) | |
| COMPACTION(Light) | |
| UNDISTURBED | |
| DISPLACED | |
| EXCAVATED SKID TRAIL | |
| | units, one on side Nunet 26A |
| SMZ 2 5MZ one between | units, one on sine of unit 201 |
| COMMENTS On road leading to | unit-good things done road surface |
| brain " just in charring ? | mellivet area. Surface drainage |
| could have been better! | |
| ram sail + water stand por | it was looks good. Good fireline |
| Maintfine a good SMZ. | oved caned have been ledo. |
| Part of State BMP audi | - |
| SHAPE OF UNIT AND PATTERN OF TRANSECT | 1 |
| | |
| R1 5624 | , |
| | / / PI |
| 1 . unit 264 | 15h 21 5824 |
| | 3//26B |
| 5 | |
| RJ 5824 | |

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.

41702103 41901137 41703133 33-4 22-4 500-50-700 1107

08/06/2002

Three Rivers - Garver Proposal Unit 31 33 50

KOOTENAI NATIONAL FOREST SOIL DISTURBANCE MONITORING FORM

| Onit 31, 33, 30 | |
|---|--|
| DATE HUGG SOCZ CUTTING METHOD | |
| OBSERVER July / Newga SKADDING METHOD | |
| DISTRICT The Rules If tractor: | dispersed dedicated |
| SALE/S.A. Course Proposal HAZARD TREATMEN | |
| Unit # Acres SILVICULTURAL TRM | |
| H.T. OPERATION PERIOR | D |
| Slope Aspect I | |
| Location Elevation | |
| DISTURBANCE(Heavy | |
| | |
| PAST ACTIVITY | |
| DISTURBANCE (Light) | |
| | |
| UNDISTURBED | |
| UNDISTUNDED | |
| | |
| DISPLACED | |
| DIGI DAOLD | |
| EXCAVATED SKID TRAIL | |
| | |
| SMZ/ROCK | |
| | |
| COMMENTS (Include soil, geology, organic debris-large & small, er | osion, road drainage, other pertinent info) |
| 1 Lul 31 (Lap Creek) - Some excaval | El trails exist throughout; estima |
| as 4-6% setrimental listurbance present | · Orange hawhweld also notes |
| ong closed soul leading to whit. | |
| Unit 33 (French (relk) - Noprevious a | etivity. H.T WH/Clun. Unit lies |
| n smallinge with the side dropping | If to wetter sites. Volcanic ash |
| 12" over till, Low rock content in ask. | |
| uns 50 (fensley but - free agacen to | Hensly Hill Kd 5892. Overland |
| shidding has occurred in the area fres | yoursey. Knapweel scattering |
| up Milsude, especially along red frac | |
| | |
| | |
| SHAPE OF UNIT AND PATTERN OF TRANSECT | |
| Init 31 = H.T DF/Libo - 5/Libo . Rense Passible Provide some diamage in se | a 10 tails |
| ent 31 = H. T. Drien , Julio , News | e ord prince as much as |
| Provide Some trainage in se | veraplaces on access road. |
| and and and are | Onios to use |
| pray orange nawniwer on weeks it | the factor |
| pray orange hawhweed on access r Dadres; Easpect; intermediate harvest; | planned winer practice |
| 7 | ナンルエミル・オ |
| 1 1 33 · H.I WH/Clun Kecommend u | venter operation. H. I. indicale |
| ut 33: H.T WH/Clun. Recommend u Hut sail will not meet 186 moisture. 20 acres; 5 aspect; regeneration harm | Ash w/ rock easily disturbed. |
| That sails well man there igo more than | t. 1 Oda H |
| 20 acres; 3 aspect; regeneration harv | ed; planned Macion. |
| -+ | 001 1 |
| it 50: H.T DF/Arun - DF/Syal. Reuse | old Traces. Spray area |
| prior to operation. | |
| Production of the state of the | to the Atractor |
| 3 acres; & aspect; intermediate harve | er, primea, - will |
| OMPACTION (Heavy) - Any place where future vegetative growth will | be significantly impacted i.e. skid trails (both |
| neavily and lightly used depending on amount of compaction related to | Soil moisture), landings, and other imported areas |
| COMPACTION (Light) - Any other area not included in heavy COMPAC | CTION or UNDISTURBED |
| UNDISTURBED - No signs of any machinery or skidding acityity. | |
| DISPLACED - Any place soil has been mounded by machinery, also in | clude in heavy or light compaction |
| SMZ/ROCK/BURN PILE - Include within transect if within harvest unit. | 07/02 |

07/02

| | Transect | 1 | Transect | 2 | Transec | et 3 | Transec | | Transec | | TOT | |
|--------------------|----------|---------|----------|-----------|---------|------|--------------|---|---------|---------------|------|----------|
| | Pts. | % | Pts. | % | Pts. | % | Pts. | % | Pts. | % | Pts. | % |
| D HEAVY | | | | | | | | | | in the second | | |
| s LIGHT t | | | | | | | | | | | | |
| u UNDISTURB r | | | | . <u></u> | | | | | | | | <u>-</u> |
| b PAST ACTIVITY | | | | | | | | | | | | |
| TOTALS | | | | | | | | | | | | |
| DISPLACED | | | | | | | | | | | | |
| EROSION | | | | | | | | | | | | |
| PUDDLED | | | | | | | | | | | | |
| SMZ | | - | | | | | | | | | | |
| ROCK | | | | | | | | | | | | |
| BURN PILES | | <u></u> | | · | | - | | | | | | |
| | | | | | | | | | | | | |

47-4/708/5/ 47-41703151

08/06/2002

Three Rivers - Garver Proposal

KOOTENAI NATIONAL FOREST SOIL DISTURBANCE MONITORING FORM

| Unit 46 & 47 | SOIL DISTURBANCE MONITO | RING FORM | |
|-------------------------------------|------------------------------------|--------------------|---|
| DATE Aug 6, 2002 | CUTTING METHOD | | |
| | gard SKIDDING METHOD | | |
| DISTRICT Three River | If tractor: | dispersed | dedicated |
| SALE/S.A. Garver propose | HAZARD TREATMENT | | |
| Unit # 46 447 Acres 23 | 4 // SILVICULTURAL TRMT | | |
| H.T. DF/Carw | OPERATION PERIOD | | |
| Slope / Location | Aspect Elevation | | |
| DISTURBANCE(Heavy | Lievation | | |
| | | | |
| PAST ACTIVITY | | | |
| DISTURBANCE (Light) | | | |
| UNDISTURBED | | | |
| | | | |
| DISPLACED | | | |
| EXCAVATED SKID TRAIL | | | |
| SMZ/ROCK | | | |
| | | | |
| COMMENTS (Include soil, geology, | organic debris-large & small, eros | ion, road drainage | , other pertinent info) |
| There proposed um | to have lack had! | -Zaeres | on the west teast |
| nds salvaged. It | was the species, | The tree | s were either |
| leyding that or ly | ing on the ground | The law | escapeers |
| the territory | ays has 10-23 % | espe grat | arapenet over |
| as a Hishware Sen | ne les days to | affers | esacen to fue |
| e solvage. These | Odestine Trails | or well | co the |
| hould be reused | · Seatter bons some | ed is one | sent and Should |
| e sprayed before | exerctions! Cl | can kell | equipment |
| refle Entry. | | | |
| <i></i> | | | |
| SHAPE OF UNIT AND PATTERN OF | TRANSECT | | |
| t 46: 23 anea; 3 tractor. 41703. | E as activities and | Destabus | 1.1.t. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. |
| 176. | - wy-ci, vicuma | we wil | vies, punned |
| tractor. 41103 | /5/ | | |
| | | | |
| | | | |
| "+117 · Hammer S | & assect; inters | nediate. | harvest; plannes |
| W91. | | | • |
| it 47: Harreri S tractor, 41703 | 151 | | |
| | | | |
| | | | |

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.

<u>DISPLACED</u> - Any place soil has been mounded by machinery, also include in heavy or light compaction. <u>SMZ/ROCK/BURN PILE</u> - Include within transect if within harvest unit.

| | Transect | 1 | Transec | t 2 | Transec | t 3 | Transe | ct 4 | Transec | | TOT | |
|--------------------|----------|---|---------|-----|---------|-----|----------|------|-------------|---|-------------|----|
| | Pts. | % | Pts. | % | Pts. | % | Pts. | % | Pts. | % | Pts. | % |
| D HEAVY | | | | | | | | | | | | ., |
| s LIGHT | | | | | | | | | | | | |
| u UNDISTURB r | | | | | | | | | | | | |
| b PAST ACTIVITY | | | | | | | | | | | | |
| TOTALS | | | | | | | | | | | | |
| DISPLACED | | | | | | | | | | | | |
| EROSION | | | | | | | | | | | | |
| PUDDLED | | | | | | | | | | | | |
| SMZ | | | | | | | | | | | | |
| ROCK | | | | | | | | | | | | |
| BURN PILES | | | | | | | | | | | | |
| | 11 | | l | | | | <u> </u> | | | | | |

KOOTENAI NATIONAL FOREST SOIL DISTURBANCE MONITORING FORM

| | ्री€ | 9/23/02 | <u> </u> | CUTTING METHO | | | |
|-----------|--|---|--|--|--|---|--------------------------------|
| - | SERVER | Kuennen | Newgard | SKIDDING METHOD IN SKIDDING METHOD IN CONTROL INCOLUCIA IN CONTROL IN CONT | OD dispersed | dedicated | _ |
| | SALE/S.A. | Three All | Proposal | HAZARD TREATM | · ——— | Uculvated | |
| _ | Unit # | Acres | | SILVICULTURAL | | | |
| | H.T | | | OPERATION PER | RIOD | | |
| | Slope _ Location | | | Aspect Elevation | | | _ |
| | COMPACTION | ON (Heavy) | | | | | |
| | | | | | | | _ |
| | COMPACTIO | ON (Light) | | | | | |
| | UNDISTURE | BED | | | | | |
| | | | | | | | _ |
| • | DISPLACED | | | | | | |
| - | EXCAVATED | SKID TRAIL | | | | | _ |
| - | SMZ/ROCK | | | | | | <u> </u> |
| - | COMMENTS | (Ingludo soil / | analogy organ | nic debris, other pertine | unt info) | | _ |
| | FILL A | 11 00 YO M | veen en | vessed Garn | Er Units Visi | ted in 18, 19, 23, 2 | 5,34, |
| N | Jones | f the un | its have | previously | been enter | d | - 7- 1. |
| | 01 170 | discuss | con was | associated | W/ Unil 54. 7 | he unites genera | <u>ll</u> y |
| org | accesa | Somew & | at delle | cult from 4 | Le existing | ond the H. T. is w | #/ |
| 'C | lun w/ o | occasion | red //we | t alease the | e soil had 8. | -14 of volcenic as | 4 |
| 0 | ver a g | of carles | be a es | she site has | le la la | I wet helited to | <u> </u> |
| G | ould be | ad to su | mitika | nt detriment | at soil Jislu | bance. | |
| _ | | | | | | | |
| | | | | | | | |
| - | | | | | | | |
| | | NIT AND PATTI | | | | | |
| | | | | | en; planned | Heli, | |
| 1 | 8B; 15 | acres; 42 | 201111;5 | saspect; reg | en; planned midiato hur | | |
| 1 | 85; 15 9c: 10 a | acres; 42 | 201111;5 | saspect; reg | midiate hur | est; planned /teli. | |
| 1 | 85; 15 9c: 10 a | acres; 42 | 201111;5 | saspect; reg | midiate hur | est; planned /teli. | |
| 1 | 85; 15 9c: 10 a | acres; 42 | 201111;5 | saspect; reg | midiate hur | est; planned /teli. | tor |
| 1 | 85; 15 9c: 10 a | acres; 42 | 201111;5 | saspect; reg | midiate hur | est; plunned /teli. | tor |
| 1 2 2 | 9C: Wa 23: 520 plu 25: 13 a | acres; 422 races; 422 and shy, | 20////; 5 20///8; 5 20///8; 5 20///2/4 line 20///5; | saspect; reg saspect; ente 2201110; 5 as saspect; ente | midiato hur put; interme mediatohen | est; planned /feli. eleiteharvest; est; planned true | tor |
| 1 2 2 | 9C: Wa 23: 520 plu 25: 13 a | acres; 422 races; 422 and shy, | 20////; 5 20///8; 5 20///8; 5 20///2/4 line 20///5; | saspect; reg saspect; ente 2201110; 5 as saspect; ente | midiato hur put; interme mediatohen | est; planned /feli. eleiteharvest; est; planned true | tor li, |
| 1 1 2 2 3 | 8B: 15 9C: 10 a 23: 52 a plu 25: 13 a 4: 50 a | acres; 42 ecres; 42 nuel shy, cres; 42 cres; 419 | 201118; 5 201118; 5 201112/4 Line 201115; 5 | saspect; reg saspect; ente 2201110; 5 as saspect; ente Easpect; in | mediate herr pect; interme mediatoherr termediate he | est; planned /feli. eliteharvest; est; planned frac west; planned he | ec, |
| 1 2 2 3 | 9C: 10 a 9C: 10 a 23: 52 a 25: 13 a 4: 50 a MPACTION 10 TO THE PROPERTY AND THE PROPE | acres; 42 cres; 42 and shy, cres; 42 ares; 419 ares; 419 M(Heavy) - Any htly used depend | 20///8; 20///8; 3 20///8; 3 20///8; 3 6//58; 14 6 0//58; 14 6 place where fu | Saspect; reg Saspect; enter 2201/10; Sas Saspect; enter Easpect; enter uture vegetative growth not of compaction related nocluded in heavy COM | pect; intermediate here termediate her mediate herve | est; planned /feli. electharvest; est; planned frac evest; planned he st; planned fracts pacted, i.e., skid trails (both lings, and other impacted area | - |
| 1 2 2 3 | 9C: 10 a 23: 50 a 25: 13 a 4: 50 a MPACTION THE TOMPS TO THE TOP TO THE | ecces; 42 ecces; 42 med shy, cres; 42 mes; 419 Meso; 419 Mily used depen Mily used depen Mily used depen Mily used depen | 20////; S 20////; S 20/////; S 20/////; S 20/////; S 20/////; S 0/////; N 0///// place where for the ding on amount ther area not in any machinery | Saspect; enter 2201110; 5 as 5 aspect; enter 6 aspect; enter 1 ture vegetative growth 1 tof compaction relate 1 not | put; intermediate herre termediate herre mediate herre on will be significantly im and to soil moisture), land | est; planned /feli, election planned fraction est; planned fraction est; planned fraction est; planned fraction pacted, i.e., skid trails (both dings, and other impacted area JRBED. | - |

| | Transect | 1 | Transect | 2 | Transect | 3 | Transect | 4 | Transec | | TOT | ALS |
|------------|----------|----------|----------|---|----------|------|----------|---|---------|--------|------|-----|
| | Pts. | % | Pts. | % | Pts. | % | Pts. | % | Pts. | % | Pts. | % |
| D HEAVY | | | | | | | | | | | | |
| s LIGHT | , | | | | | | | | | | | |
| UNDISTURB | | | | | | | | | | | | |
| TOTALS | | | | | | | | | | 1100 3 | | |
| DISPLACED | | <u> </u> | | | | | | | | | | |
| EROSION | | | | | | ···- | | | | | | |
| PUDDLED | | | | | | | | | - 1 | | , | |
| SMZ | | | | | | | | | | | | |
| ROCK | | | | | | | | | | | | |
| BURN PILES | | | | | | | | | | 1-17 | | |

05/23/2002 Cabinet - Burnt Lion · Unit 16A 73102045

73102045 KOOTENAI NATIONAL FOREST SOIL DISTURBANCE DATA FORM

| DATE May 23, 2002 | CUTTING METHOD hand |
|--|--|
| OBSERVER Krennen | SKIDDING METHOD mined cable + tractor |
| DISTRICT Calinet | HAZARD TREATMENT BB Spring 2001 |
| SALE Burnthyon | SILVICULTURAL TREATMENT (C) w/ reserves |
| Unit No (16 A) _ 3700 | OPERATION PERIOD Jul Aug '00 |
| COMPACTION(Heavy) | Walk-through |
| COMPACTION(Light) | |
| UNDISTURBED | |
| DISPLACED_ | |
| EXCAVATED SKID TRAIL | |
| SMZ | |
| COMMENTS For a Excens burn | This was fairly hot Killer a let |
| Jorganies, Chip is | light. Too much file |
| | |
| | |
| Part of as largetition as | NEW A STATE OF THE |
| SHAPE OF UNIT AND PATTERN OF TRANSECT | TO THE STATE OF TH |
| | |
| | SD DIVERSITY STA |
| | |
| | 3800 |
| | |
| COMPACTION(Heavy) - any place where fu | uture vegetative growth vill to significant manufacture |

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.

 $\overline{ ext{DISPLACED}}$ - any place soil has been mounded by machinery, also include in heavy or light compaction.

 $\underline{\text{SMZ}}$ - include within transect if within harvest unit.

05/23/2002 Cabinet - Smeads Rice Unit 6A 71301006

7/301000 KOOTENAI NATIONAL FOREST SOIL DISTURBANCE DATA FORM

| DATE May 23, 2002 | CUTTING METHOD I was |
|---------------------------------------|---|
| OBSERVER Kuennen | SKIDDING METHOD Tractor |
| DISTRICT Cabenet | HAZARD TREATMENT Excavatorpile w/ Scalps |
| SALE Smeads Rice | SILVICULTURAL TREATMENT Seeffree W/reserves |
| Unit No. 6A 33 Acres WH/Clun | OPERATION PERIOD winter logged Jan 00 |
| COMPACTION (Heavy) | Walk-through |
| COMPACTION(Light) | |
| UNDISTURBED | |
| DISPLACED | |
| EXCAVATED SKID TRAIL | |
| SMZ | |
| For number of rock in | soil ful some outcropes. Tough |
| planting in stone areas | |
| | |
| | |
| SHAPE OF UNIT AND PATTERN OF TRANSECT | vein |

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.

<u>DISPLACED</u> - any place soil has been mounded by machinery, also include in heavy or light compaction.

 $\underline{\mathsf{SMZ}}$ - include within transect if within harvest unit.

