"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Piledup Marlow
Sale 341-08-33

District: Coos **Date:** March 13, 2008

cost summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	$290,962.99	$56,489.96	$347,452.95
		Project Work:	$(43,819.00)
		Advertised Value:	$303,633.95

"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Piledup Marlow
Sale 341-08-33

District: Coos

Date: March 13, 2008

timber description

Location: Portions of Section 21, T24S, R11W, W.M., Coos County, Oregon.

Stand Stocking: 60%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	20	0	95
Western Hemlock / Fir	21	0	95
Red Cedar	24	0	95
Alder (Red)	15	0	90
Maple	14	0	90

Volume by Grade	10" - 11"	12"+	2S	3S	6" - 7"	8" - 9"	Total
Douglas - Fir	0	0	1,131	440	0	0	1,571
Western Hemlock / Fir	0	0	31	30	0	0	61
Red Cedar	0	0	0	7	0	0	7
Alder (Red)	17	41	0	0	13	67	138
Maple	27	6	0	0	2	9	44
Total	44	47	1,162	477	15	76	1,821

"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Piledup Marlow
Sale 341-08-33

District: Coos **Date: March 13, 2008**

comments: Pond Values Used: 4th Quarter Calendar Year 2007.

Regeneration harvest of approximately 64 acres of 74-78 year-old mixed conifer and hardwood and 16 acres of 43 year-old mixed conifer and hardwood.

HAULING
Hauling costs equivalent to $700 daily truck cost.

Other Costs (Profit and Risk to be added):
Directional Felling/Tree Jacking: $2/tree x 500 trees = $1,000
Brand & Paint Logs: $1/MBF x 1,821 MBF = $1,821
Cull Sorting/Slash Piling on Landings: $125/landing x 4 landings = $500
Rig Lift Trees: $100/tree x 7 trees = $700
Artificial Guy Anchors (dozer, skidder): $500/anchor x 5 anchors = $2,500
Log Placement in Streams (Exhibit I): $845/crossing x 10 crossings = $8,450
Additional Fire Equipment: 0.8 Seasons x $2,000 per season = $1,600
Safety Flagging and/or Signing: $150 per day x 3 days = $450
Tree Topping: $100/tree x 32 trees = $3,200
TOTAL Other Costs (Profit and Risk to be added) = $20,221

"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Piledup Marlow
Sale 341-08-33

District: Coos

Date: March 13, 2008

logging conditions

combination#: 1

Douglas - Fir	80.00%
Western Hemlock / Fir	80.00%
Red Cedar	80.00%
Alder (Red)	80.00%
Maple	80.00%

yarding distance: Medium (800 ft) **downhill yarding:** No
logging system: Cable: Large Tower >=70 **Process**: Manual Delimbing
tree size: Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF
loads / day: 8.0 **bd. ft / load:** 4,000
cost / mbf: $115.42

machines: Log Loader (A)
Tower Yarder (Large)

combination#: 2

Douglas - Fir	20.00%
Western Hemlock / Fir	20.00%
Red Cedar	20.00%
Alder (Red)	20.00%
Maple	20.00%

yarding distance: Medium (800 ft) **downhill yarding:** No
logging system: Cable: Medium Tower >40 - <70 **Process**: Manual Delimbing
tree size: Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF
loads / day: 6.0 **bd. ft / load:** 3,500
cost / mbf: $164.76

machines: Log Loader (A)
Tower Yarder (Medium)

"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Piledup Marlow
Sale 341-08-33

District: Coos **Date:** March 13, 2008

logging costs

Operating Seasons:	1.00	**Profit Risk:**	20.00%
Project Costs:	$43,819.00	**Other Costs (P/R):**	$20,221.00
Slash Disposal:	$0.00	**Other Costs:**	$0.00

Miles of Road

Road Maintenance: $0.00

Dirt	Rock (Contractor)	Rock (State)	Paved
1.0	4.0	0.0	0.0

Hauling Costs

Species	$ / MBF	Trips/Day	MBF / Load
Douglas - Fir	$0.00	2.0	4.0
Western Hemlock / Fir	$0.00	2.0	4.0
Red Cedar	$0.00	2.0	4.0
Alder (Red)	$0.00	3.0	3.5
Maple	$0.00	3.0	3.5

"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Piledup Marlow
Sale 341-08-33

District: Coos **Date: March 13, 2008**

Local Pond Values

Date	Specie	Grade	Value
3/13/08	Alder (Red)	8" - 9"	$565.00
3/13/08	Alder (Red)	10" - 11"	$650.00
3/13/08	Alder (Red)	12"+	$700.00
3/13/08	Alder (Red)	6" - 7"	$445.00
3/13/08	Maple	8" - 9"	$425.00
3/13/08	Maple	10" - 11"	$425.00
3/13/08	Maple	12"+	$425.00
3/13/08	Maple	6" - 7"	$200.00

"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Piledup Marlow
Sale 341-08-33

District: Coos **Date:** March 13, 2008

logging costs breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling	Other	Total
Douglas - Fir									
$125.29	$4.91	$2.41	$76.57	$11.10	$44.06	$0.00	$2.00	$0.00	$266.34
Western Hemlock / Fir									
$125.29	$4.91	$2.41	$76.57	$11.10	$44.06	$0.00	$2.00	$0.00	$266.34
Red Cedar									
$125.29	$4.91	$2.41	$76.57	$11.10	$44.06	$0.00	$2.00	$0.00	$266.34
Alder (Red)									
$125.29	$5.15	$2.41	$61.12	$11.10	$41.01	$0.00	$2.00	$0.00	$248.08
Maple									
$125.29	$5.15	$2.41	$61.12	$11.10	$41.01	$0.00	$2.00	$0.00	$248.08

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	$0.00	$446.19	$179.85	$0.00
Western Hemlock / Fir	$0.00	$320.16	$53.82	$0.00
Red Cedar	$0.00	$1,000.00	$733.66	$0.00
Alder (Red)	$0.00	$604.28	$356.20	$0.00
Maple	$0.00	$414.77	$166.69	$0.00

"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Piledup Marlow
Sale 341-08-33

District: Coos **Date:** March 13, 2008

summary

Amortized

Specie	MBF	Value	Total
Douglas - Fir	0	$0.00	$0.00
Western Hemlock / Fir	0	$0.00	$0.00
Red Cedar	0	$0.00	$0.00
Alder (Red)	0	$0.00	$0.00
Maple	0	$0.00	$0.00

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	1,571	$179.85	$282,544.35
Western Hemlock / Fir	61	$53.82	$3,283.02
Red Cedar	7	$733.66	$5,135.62
Alder (Red)	138	$356.20	$49,155.60
Maple	44	$166.69	$7,334.36

Gross Timber Sale Value

Recovery: $347,452.95

Prepared by: Jon Haynes **Phone:** 541-267-1758

Summary of "Other Costs" for Timber Sale Appraisals

Sale Name: Piledup Marlow

Additional "Other Cost" with additional profit and risk to be added:

	Units	Quantity	Cost/unit	Total Cost
Felling				
Locate Corridors and Skid Roads	MBF		$ 5.00	$ -
Select Trees and Fall to Lead	MBF		$ 5.00	$ -
Small Tree Volume Cost addition	MBF		$ 10.00	$ -
Directional Felling/Tree Jacking	MBF	500	$ 2.00	$ 1,000.00
Felling of unmerch material	acre		$ 80.00	$ -
Yarding and Loading				
Clear chute at cable settings	MBF		$ 3.00	$ -
Brand and paint logs	MBF	1821	$ 1.00	$ 1,821.00
Cull sorting/slash piling on landings	landing	4	$ 125.00	$ 500.00
Rig lift trees	lift tree	7	$ 100.00	$ 700.00
Artificial guy anchors(dozer, skidder)	anchor	5	$ 500.00	$ 2,500.00
Log placement into streams (Exhibit I)	crossing	10	$ 845.00	$ 8,450.00
Skid Road Layout	MBF		$ 5.00	$ -
Non required Road Construction	Stations			$ -
Miscellaneous Costs				
Additional fire equipment	Seasons	0.8	$ 2,000.00	$ 1,600.00
Maintenance rock (Section 2130)	yards	0	$ 25.00	$ -
Safety Flagging and/or signing	per day	3	$ 150.00	$ 450.00
Tree topping	per tree	32	$ 100.00	$ 3,200.00

Total additional "Other Cost" with additional profit and risk to be added **$ 20,221.00**

Additional "Other Cost" with no additional profit and Risk

	Units	Quantity	Cost/unit	Total Cost
Non-required road construction	Stations			$ -
Non-required road rocking	Cubic Yards			$ -
Stream clearance	Feet			$ -
Scaling (high piece count)	MBF		$ 2.00	$ -
Grass Seeding and Fertilizing	Ac			$ -

Total additional "Other Cost" with no additional profit and Risk **$ -**

Log Placement in Stream Calculations

Recommendations from Randy Smith, ODF Southern Oregon Area Biologist
Volume to be taken from within the Piledup Marlow sale area and placed into Marlow and Y Creeks.

Marlow Creek : 4 crossings, each crossing to have 4 logs with small end diameter 16" All logs to be 60 feet in length and not obtained from stream buffer or adjacent green tree retention areas.

Volume estimate:

Quan	Size	Vol/log	Total Vol
16	16" - 60 feet	480	7,680

7,680 Total Fish Log volume to be removed from cruise

Labor estimate:

4	crossings @	2.5	hrs/crossing	10 hours
10	hours yarder/skycar @	250	$/hour	$ 2,500
40	hours 4 man rigging crew @	22	$/manhour	$ 880

$ 3,380 Total Labor

Y Creek : 6 crossings, each crossing to have 1 log with small end diameter 16" and 2 logs to have large end diameter 16" (approx 13" small end). All logs to be 30 feet in length and not obtained from stream buffer or adjacent green tree retention areas.

Volume estimate:

Quan	Size	Vol/log	Total Vol
6	16" - 30 feet	300	1,800
12	13" - 30 feet	180	2,160

3,960 Total Fish Log volume to be removed from cruise

Labor estimate:

6	crossings @	2.5	hrs/crossing	15 hours
15	hours yarder/skycar @	250	$/hour	$ 3,750
60	hours 4 man rigging crew @	22	$/manhour	$ 1,320

$ 5,070 Total Labor

Total volume to be removed from cruise 11,640 board feet
Total labor estimate for appraisal $ 8,450

SUMMARY OF CONSTRUCTION COST
Piledup Marlow

Project 1A: Landing Construction

Points: A

Excavator to clear landing area	5	hrs at	$120.00	per hour	$600.00
Cat time to clear landing area	5	hrs at	$120.00	per hour	$600.00
Laborer	5	hrs at	$30.00	per hour	$150.00

Total Project 1A: **$1,350.00**

Project 1B: Landing Construction

Points: C

Excavator load material at landing	15	hrs at	$120.00	per hour	$1,800.00
Drill & Shoot	120	yds at	$3.50	per yd	$420.00
Cat time to shape landing	10	hrs at	$120.00	per hour	$1,200.00
Dump Truck - haul to Pt D (approx. 500 yds)	15	hrs at	$75.00	per hour	$1,125.00
Laborer	15	hrs at	$30.00	per hour	$450.00

Total Project 1B: **$4,995.00**

Project 1C: Landing Construction

Points: D

Excavator to prep waste area and remove material to enlarge landing	10	hrs at	$120.00	per hour	$1,200.00
Cat time to shape landing & waste area	10	hrs at	$120.00	per hour	$1,200.00
Laborer	10	hrs at	$30.00	per hour	$300.00

Total Project 1C: **$2,700.00**

Project 1D: Landing Construction

Points: E

Cat time to shape landing	5	hrs at	$120.00	per hour	$600.00
Laborer	5	hrs at	$30.00	per hour	$150.00

Total Project 1D: **$750.00**

Move-in

Equipment	Miles	hrs/RT	Lowboy Rate/hr	Total
Excavator	25	4	$95.00	$380.00
Cat	25	4	$95.00	$380.00
Grader	25	2.5	$95.00	$237.50
Dump Truck	25	2.5	$95.00	$237.50
Drill & Comp	25	4	$95.00	$380.00

Total Move-in: **$1,615.00**

Project 1 Total **$11,410.00**

SUMMARY OF CONSTRUCTION COST
Piledup Marlow

Project 2: Road Improvement

Points: B to E Length: 3545' Type: 14' subgrade no ditch

Excavator to remove small trees/brush, cutbank slough and small slides	15	hrs at	$120.00	per hour	$1,800.00
Dump Truck to haul material to Pt D	15	hrs at	$29.00	per hour	$435.00
Laborer	15	hrs at	$30.00	per hour	$450.00
Grader to smooth road surface	4	hrs at	$75.00	per hour	$300.00

Project 2 Total **$2,985.00**

Project 3: Y-Creek Rock Stockpile

Location: 3 mi on 1000 Rd
Measured amount: 1200 cu yds
Size: 1 1/2" - 0"

Cost per cu yd at crusher:	$15.96	per yd
Haul cost per cu yd (1.7 hr. RT):	$7.56	per yd
Piling and shaping cost per cu yd:	$1.00	per yd
Total cost per cu yd:	$24.52	per yd
Total cu yds:	1200	yards
Total Cost for Stockpile rock:	**$29,424.00**	

Project 3 Total **$29,424.00**

Total Project Costs **$43,819.00**

TIMBER SALE SUMMARY

Piledup Marlow

1. Type of Sale: Final Harvest, Recovery, Sealed Bid

2. Boundary Lines: Sale boundaries are marked on the ground with "Timber Sale Boundary" posters, red flagging, and red paint at locations shown on the Exhibit "A".

3. Revenue Distribution: 71% BOF, 29% CSL; 100% Coos County

4. Sale Acreage: The sale is comprised of two units totalling approximately 80 acres. Sale acreage was determined from electronic digitizing using the ArcView GIS program and deductions were made for existing interior roads and for interior rocky and non-stocked areas.

	Posted Acres	Interior Road Acres	Rock/Non-stocked Acres	Net Cruise Acres	Net Harvest Acres
Area 1	59.7	3.8	2.0	53.9	60
Area 2	20.5		1.0	19.5	20

5. Volume by Species, Fund and County. See Attached table.

6. Grade: (by Percent, Area 1 and 2)

Species	2 Saw (12"+) %	3 Saw %	3 Saw (10-11") % Hardwood	8"- 9" % Hardwood	6"-7" % Hardwood
Douglas-fir	72 %	28 %			
Hemlock	51 %	49 %			
Cedar		100 %			
Hardwoods	26 %		24 %	42 %	8 %

7. Cruise: Areas 1 and 2 were variable plot cruised using a nested Big BAF plot method. The Big BAF method is a combination of count plots and individually measured trees. The plots were spaced 132 feet apart on cruise lines spaced 264 feet apart. A 250 BAF full plot at 16 feet was taken to determine which Douglas-fir trees would be fully measured and a 90 BAF was used for red alder. A total of 63 Douglas-fir trees and 17 red alder trees were fully measured for DBH, height, grade and defect. A 40 BAF full plot at 16 feet was used to determine tree counts for all species. Minor species were measured on every 3rd plot. Additional count plots for all species were installed halfway between the nested Big BAF plots. A total of 198 count plots were installed. Cruise data was gathered using Superace cruising technique. Cruising was done in October 2006 by ODF foresters.

A. Summary data (Area 1 and 2):

Diam	Ht. Stand	Form Pt.	Form Factor	CV %	SE %
D4H	6" DIB	Conifer: 16' Hardwood: 16'	Recorded for all cruised trees by estimate and measure	43 %	6.2 %

B. Defect and Breakage Summary (Area 1 and 2):

BY PERCENT

SPECIES	CRUISED DEFECT	HIDDEN DEFECT	BREAKAGE	TOTAL %
DOUGLAS FIR	3	2	2	7
HEMLOCK		3	3	6
CEDAR		6	2	8
HARDWOODS	1	7	7	15

C. Stand Data (Area 1 and 2):

SPECIES	DBH	TREES/ACRE	BASAL AREA/AC	NET MBF/ACRE
DOUGLAS FIR	20	46	115	19.6
HEMLOCK	21	2	7	1
CEDAR	24	<1	2	<1
HARDWOODS	15	34	47	2.3

D. Green Tree Retention: There are ten (10) green tree reserve areas associated with this sale that are reserved from cutting. These areas consist of perennial stream buffer extensions and intermittent stream buffers posted out of the sale boundary. These areas were not included in the cruise. Within the sale area there are scattered individual trees marked with red paint that have been removed from the cruise. These individual marked trees are primarily trees adjacent to posted stream buffers to widen the effective width of the buffers. The table below summarizes the green tree retention areas and the volume that has been removed from the cruise.

GTR Area	D-fir Count	D-fir MBF removed from cruise	Hemlock/ Cedar Count	Hemlock/ Cedar MBF removed from cruise	Hdwd Count	Hdwd MBF removed from cruise
AREA A	81	24.0	17	1.4	103	3.3
AREA B	12	6.9	1	--	21	--
AREA C	2	--	--	--	63	--
AREA D	72	4.8	10	2.2	146	--
AREA E	15	--	--	--	35	--
AREA F	11	3.6	--	--	50	--
AREA G	14	--	--	--	67	--
AREA H	5	--	--	--	26	--
AREA I	25	--	8	--	13	--
AREA J	18	--	2	--	19	--
Fish Logs		11.6				
TOTALS	255	51 mbf	38	3 mbf	543	3 mbf

8. Timber Description: Timber in Area 2 and the eastern portion of Area 1 is even-aged and poor to medium stocked with 78 year-old Douglas-fir sawtimber with significant amounts of bigleaf maple, red alder, myrtle, and a small component of western hemlock and redcedar. Timber quality is average. Timber in the western portion of Area 1 is even-aged and poor to medium stocked with 43 year-old Douglas-fir sawtimber with significant amounts of young bigleaf maple and red alder. Timber quality is average. There are also some unstocked areas of brush and rock in both Areas 1 and 2.

9. Topography: Area 1 is the larger of the two units and has predominately southerly, westerly, and easterly aspects, with slopes from 60 to over 80 percent. Area 2 has predominately a southerly aspect with slopes from 60 to over 80 percent. Marlow Creek, a large Type F stream, flows along the southern boundary of Area 2. Y Creek, a small Type F stream, originates within Area 1 and also flows along the southeast boundary of Area 2. There are four perennial Type N streams and three intermittent Type N streams within the sale area. All of them have been identified as potential debris flow drainages because of their potential of delivering debris to Type F streams. In accordance to the Northwest Riparian Strategy, stream buffers have been posted along all Type F streams and all Type N drainages exhibiting a channel whether flowing or dry. Buffer lengths extend to encompass at least 75 percent of the length of most drainages. Buffer widths per

side can range in size from 25 feet to over 160 feet in order to capture the required number of trees (15 trees/1000 feet for Type N seasonals, 40 trees/1000 feet for Type N perennials, 115 trees/1000 feet for Type F). In accordance to the Elliott HCP, all buffer trees on Type N seasonals are counted as green tree retention, as well as buffer trees above 100 feet on Type F streams and buffer trees above 50 feet on Type N perennials. Locations of stream buffers and green tree retention areas are indicated on the Exhibit "A".

10. Logging Method: Area 1 is designed to be cable logged from landings on the existing 1100 and 1130 roads. The majority of Area 1 will be cable logged uphill from landings at Points A, C, and D. The portion east of the 1130 road will be cable yarded downhill. The portion north of the 1100 road has been ground skidded in the past and has skid roads which could be utilized again. Area 2 is designed to be cable logged uphill from a single landing at Point E. Full suspension will be required while yarding over Y Creek and other drainages and stream buffers. Full suspension will be maintained where possible over the remainder of the sale and single end suspension will be utilized where full suspension is not possible. Fish logs will be placed into Marlow Creek and Y Creek where cables cross the stream buffer. The sale area is intended for dry season operation. Purchaser must comply with winter and wet weather requirements as stipulated in Exhibits D and E if operations are conducted during the wet season.

11. Access: To access the timber sale area take the Coos River Highway through Eastside. Follow the signs to Allegany. Cross the Chandler Bridge and continue to Allegany. Proceed past Allegany to the 1000 road (Marlow Creek Road). Proceed up the 1000 for approximately 1 mile to the entering "Elliott State Forest" sign. Take the first left turn just past the sign onto the 1100 road. Continue up the 1100 road for approximately 4 miles to the sale area. The junction of 1100 and 1130 roads is Point B. The 1130 road is blocked by boulders but is passable for ATV's. Continue down the 1130 road by foot or ATV through Area 1. Area 2 is located approximately 800 feet past the boundary of Area 1.

12. Projects: See attached "Project Cost Summary Sheet"

Project No. 1: Landing Construction

Project No. 2: Road and Landing Improvement

Project No. 3: Rock Stockpile Delivery

NET VOLUMES AND ACREA[illegible]

Piledup Marlow

SALE AREA & SPECIES		Tree cnt. 100% Units	NET VOLUMES (MBF)							
			By County and Fund						Total Vols.	Vol. per Acre
			Coos			Douglas				
Areas	Spec		FRA	FDF	Total	FRA	FDF	Total		
1-2	D-fir		456	1115	1571			0	1571	19.6
	Hem		18	43	61			0	61	1
	Cedar		2	5	7			0	7	0.1
	Hdwd		53	129	182			0	182	2.3
TOTALS			529	1292	1821	0	0	0	1821	

TOTAL SALE VOLUME BY SPECIES

Douglas-fir	1571	MBF
Hemlock	61	MBF
Cedar	7	MBF
Hdwd	182	MBF

Report by: J. Haynes

Date: 01/12/2007

Unit For. _____ Date Jan 29, 07

Asst. Dist. For. _____ Date 2.7.2007

NO INGROWTH INCLUDED.

NET HARVEST ACREAGE BY COUNTY (to nearest acre)

	Coos County						Douglas County						TOTAL ACRES
	FRA			FDF			FRA			FDF			
Sale Area	Conifer cc	Conifer pc	Hard wood	Conifer cc	Conifer pc	Hard woods	Conifer cc	Conifer pc	Hard woods	Conifer cc	Conifer pc	Hard woods	
1-2	23			57									80
SUM	23	0	0	57	0	0	0	0	0	0	0	0	80

cc- clearcut pc- partial cut FDF- Forest Development Fund FRA- Forest Revenue Account

CRUISE VOLUME COMPUTATION REPORT

SALE NAME: Piledup Marlow
LEGAL LOCATION: Sec. 21, T24S, R11W
WM. Coos County, OR

DATE: 01/12/2007
BY: J. Haynes

FIELD CULL PERCENTAGE

Areas 1 & 2

Species	Doug-fir	Hemlock	Cedar	Hardwds
Field cull	0.03	0	0	0.01

NET FIELD VOLUME MBF (Gross vol. less field cull)

SPECIES>>>>>	Doug-fir	Hemlock	Cedar	Hardwds	TOTAL
Areas 1 &2	1687	66	11	215	1979
less GTR vol	39	1	3	3	46
less fish log vol	12				12
TOTAL	1636	65	8	212	1921

HIDDEN DEFECT AND BREAKAGE

Species	Doug-fir	Hemlock	Hardwds	Cedar
Hidden cull	0.02	0.03	0.07	0.06
Breakage	0.02	0.03	0.07	0.02
TOTAL	0.04	0.06	0.14	0.08

NET VOLUME BY MBF BY AREA*

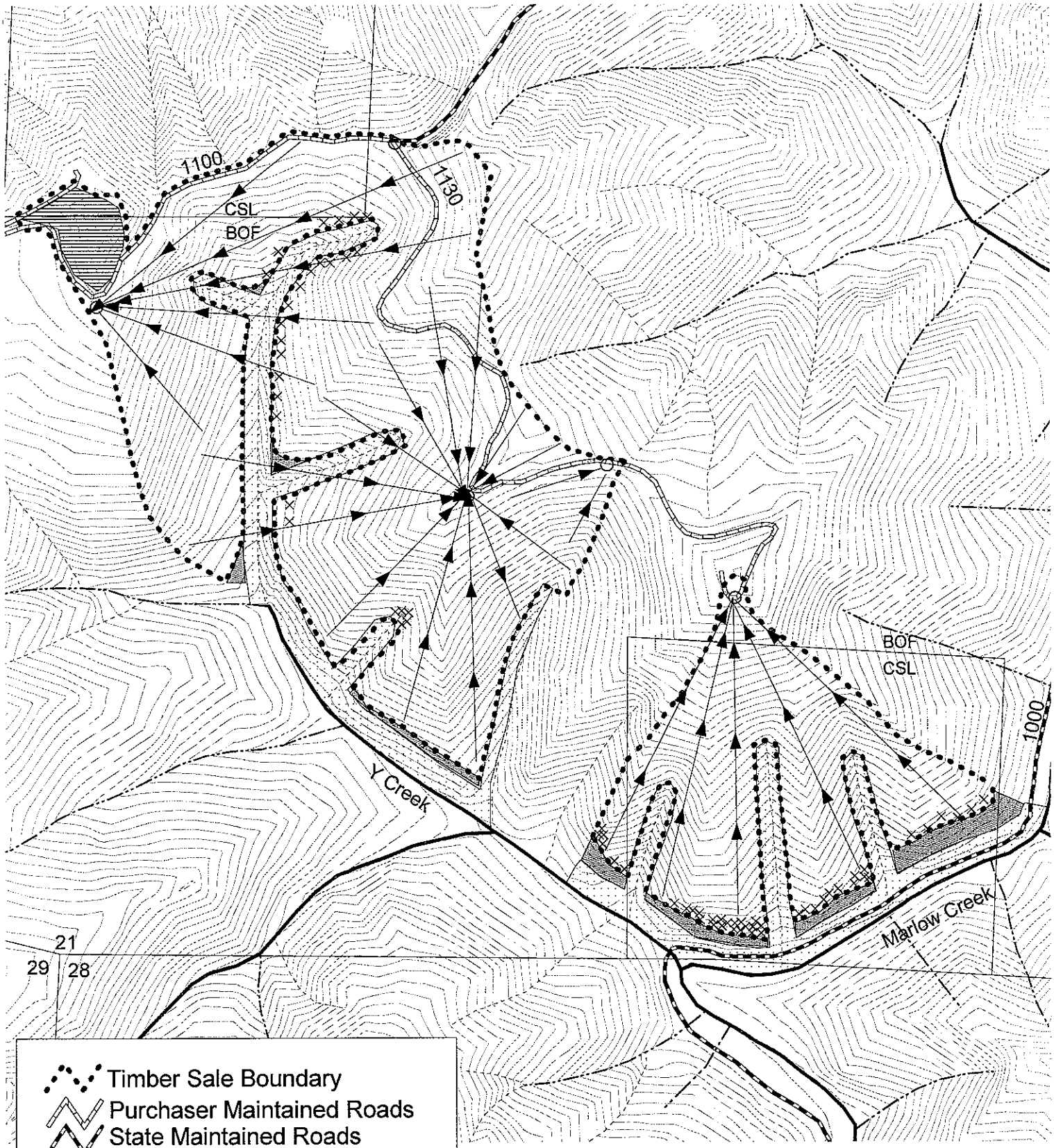
SPECIES>>>>>	Doug-fir	Hemlock	Cedar	Hardwds	TOTALS
Areas 1&2	1571	61	7	182	1821
TOTALS	**1571**	**61**	**7**	**182**	**1821**

NET VOLUME BY GRADE AND MBF *

Grade >>>>>>>>>>>		2PEE	3PEE	S.M.	2SAW (12"+)	3SAW (10"-11")	Big 3 SAW	4SAW (8"-9")	(6"-7")
Areas 1 & 2	Doug-Fir	0	0	0	1131	440	0	0	0
	Hemlock	0	0	0	31	30	0	0	0
	Cedar	0	0	0	0	7	0	0	0
	Hdwds	0	0	0	47	44	0	76	15

GRADE DISTRIBUTION BY PERCENT

Grade >>>>>>>>>>>		2PEE	3PEE	S.M.	2SAW (12"+)	3SAW (10"-11")	Big 3 SAW	4SAW (8"-9")	(6"-7")
Areas 1 & 2	Doug-fir	0%	0%	0%	72%	28%	0%	0%	0%
	Hemlock	0%	0%	0%	51%	49%	0%	0%	0%
	Cedar	0%	0%	0%	0%	100%	0%	0%	0%
	Hdwds	0%	0%	0%	26%	24%	0%	42%	8%



- Timber Sale Boundary
- Purchaser Maintained Roads
- State Maintained Roads
- Cable Landings
- Ground Yard
- Green Tree Retention Area
- × Individual Green Tree Retention
- Streambuffers
- Type F Streams
- Perennial Type N Streams
- Seasonal Channels

Logging Plan Map
Timber Sale No. 341-08-33
Piledup Marlow

scale 1" = 500'
contour interval 20'

PORTIONS OF SECTION 21
T24S, R11W, WM
COOS COUNTY, OREGON

approx. 80 net harvest acres

OREGON DEPARTMENT OF FORESTRY
"STEWARDSHIP IN FORESTRY"

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