



Timber Sale Appraisal
Strombo Combo
Sale 341-09-54

"STEWARDSHIP IN FORESTRY"

District: West Oregon

Date: April 16, 2009

cost summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$484,740.76	\$0.00	\$484,740.76
		Project Work:	\$(118,043.00)
		Advertised Value:	\$366,697.76



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
 Strombo Combo
 Sale 341-09-54

District: West Oregon

Date: April 16, 2009

timber description

Location: Portions of Sections 19 & 30, T11S, R8W, and Sections 24 & 25, T11S, R9W, W.M., Lincoln County, Oregon.

Stand Stocking: 60%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	19	0	98

Volume by Grade	2S	3S	4S	SM	Total
Douglas - Fir	2,419	807	181	11	3,418
Total	2,419	807	181	11	3,418



Timber Sale Appraisal
Strombo Combo
Sale 341-09-54

"STEWARDSHIP IN FORESTRY"

District: West Oregon

Date: April 16, 2009

comments: Pond Values Used: 1st Quarter Calendar Year 2009.

Western Hemlock and Other Conifers Stumpage Price = Pond Value
minus Logging Cost
 $\$80/\text{MBF} = \$250/\text{MBF} - \$170/\text{MBF}$

Western Red Cedar Stumpage Price = Pond Value minus Logging Cost
 $\$550/\text{MBF} = \$720/\text{MBF} - \$170/\text{MBF}$

Red Alder and Other Hardwoods Stumpage Price = Pond Value minus
Logging Cost
 $\$245/\text{MBF} = \$415/\text{MBF} - \$170/\text{MBF}$

SCALING COST ALLOWANCE = \$5.00/MBF

FUEL COST ALLOWANCE = \$3.00/Gallon

HAULING COST ALLOWANCE

Hauling costs equivalent to \$700 daily truck cost.

Other Costs (with Profit & Risk to be added):

Area I - Artificial Guyline Anchors - 6 @ \$250 = \$1,500

TOTAL Other Costs (with Profit & Risk to be added) = \$1,500

Other Costs (No Profit & Risk added):

Firewood Sorting: 15 hrs x \$110/hr = \$1,650

Downed Wood (32 trees, 1 day) = \$300

Snag Creation (32 snags x \$75/snag) = \$2,400

TOTAL Other Costs (No Profit & Risk added) = \$4,350

SLASH

Slash Disposal

Move In = \$500

In-Unit Move = 1 hour x \$125/hour = \$125

19 hours x \$125/hour = \$2,375

TOTAL Slash Disposal = \$3,000



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Strombo Combo
Sale 341-09-54

District: West Oregon

Date: April 16, 2009

logging conditions

combination#: 1 Douglas - Fir 43.53%
yarding distance: Medium (800 ft) **downhill yarding:** No
logging system: Cable: Medium Tower >40 - <70 **Process:** Manual Delimiting
tree size: Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF
loads / day: 12.0 **bd. ft / load:** 4,500
cost / mbf: \$64.08

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

combination#: 2 Douglas - Fir 44.48%
yarding distance: Short (400 ft) **downhill yarding:** No
logging system: Cable: Medium Tower >40 - <70 **Process:** Manual Delimiting
tree size: Mature / Partial Cut (900 Bft/tree), 3-5 logs/MBF
loads / day: 6.0 **bd. ft / load:** 4,500
cost / mbf: \$128.15

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

combination#: 3 Douglas - Fir 10.43%
yarding distance: Short (400 ft) **downhill yarding:** No
logging system: Wheel Skidder **Process:** Manual Delimiting
tree size: Mature / Partial Cut (900 Bft/tree), 3-5 logs/MBF
loads / day: 7.0 **bd. ft / load:** 4,500
cost / mbf: \$47.57

machines: Feller Buncher w/ Delimber

combination#: 4 Douglas - Fir 1.55%
yarding distance: Long (1,500 ft) **downhill yarding:** No
logging system: Wheel Skidder **Process:** Manual Delimiting
tree size: Small / Thinning 10in (90 Bft/tree), 18-20 logs/MBF
loads / day: 4.0 **bd. ft / load:** 4,500
cost / mbf: \$83.25

machines: Feller Buncher w/ Delimber



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
 Strombo Combo
 Sale 341-09-54

District: West Oregon

Date: April 16, 2009

logging costs

Operating Seasons:	2.00	Profit Risk:	12.00%
Project Costs:	\$118,043.00	Other Costs (P/R):	\$1,500.00
Slash Disposal:	\$3,000.00	Other Costs:	\$4,350.00

Miles of Road

			Road Maintenance:	\$0.00
Dirt	Rock (Contractor)	Rock (State)	Paved	
0.0	4.0	0.0	0.0	

Hauling Costs

Species	\$ / MBF	Trips/Day	MBF / Load
Douglas - Fir	\$0.00	3.0	4.5



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
 Strombo Combo
 Sale 341-09-54

District: West Oregon

Date: April 16, 2009

logging costs breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling	Other	Total
Douglas - Fir									
\$91.15	\$4.16	\$2.57	\$47.23	\$0.44	\$17.47	\$0.88	\$5.00	\$1.27	\$170.17

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$311.99	\$141.82	\$0.00



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Strombo Combo
Sale 341-09-54

District: West Oregon

Date: April 16, 2009

summary

Amortized

Specie	MBF	Value	Total
Douglas - Fir	0	\$0.00	\$0.00

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	3,418	\$141.82	\$484,740.76

Gross Timber Sale Value

Recovery: \$484,740.76

Prepared by: Blake Mckinley

Phone: 541-929-3266

SUMMARY OF ALL PROJECT COSTS

Sale Name: Strombo Combo

Date: January 2009
Time: 15:44

Project #1 - Improvements

<u>Road Segment</u>	<u>Length</u>	<u>Cost</u>
A to B	292.0 sta	\$55,104
C to C1	12.0 sta	\$1,227
D to D1	8.5 sta	\$467
D to F	23.4 sta	\$12,742
E to E1	13.5 sta	\$670
E2 to E3	5.4 sta	\$281
F to F1	17.9 sta	\$9,767
F to G	41.6 sta	\$20,450
G to G1	10.1 sta	\$11,213

TOTALS

424.4 sta

\$111,921

Project #2 - Post Harvest Activities

Tank trap
 Patch rock
 Turn-a-round rock

\$4,727

Move in

	<u>Cost</u>	<u>On-site move</u>
Crawler tractor, D-7 or equiv.	\$488	\$100
Grader, Cat 14-G or equiv.	\$304	
Vibratory roller	\$304	
Water truck	\$199	

TOTAL

\$1,395

GRAND TOTAL

\$118,043

Compiled by C. Humcke / D. Wiger

Date 01/26/2009

SUMMARY OF CONSTRUCTION COST

SALE ROAD	Strombo Combo A to B	Project #1 (surfaced, ditch)	LENGTH Improve	292.0 sta
-----------	-------------------------	---------------------------------	----------------	-----------

IMPROVEMENT

Shape subgrade (with road grader)	292.0 sta.	@	\$12.28 /sta	=	\$3,586
--------------------------------------	------------	---	--------------	---	---------

TOTAL IMPROVEMENT	\$3,586
--------------------------	----------------

SURFACING

			Size	Cost/yd	=	
Spot rock (0+00 to 160+50)	152 cy of		1½-0"	\$19.17	=	\$2,914
Spot rock (160+50 to 197+50)	70 cy of		1½-0"	\$19.17	=	\$1,342
Surface rock (4" lift) (197+50 to Pt. B)	2079 cy of		1½-0"	\$20.67	=	\$42,973
Turnouts (4)	44 cy of		2½-0"	\$20.19	=	\$888
Curve widening	131 cy of		1½-0"	\$20.67	=	\$2,708

TOTAL ROCK COST =	\$50,825
--------------------------	-----------------

SPECIAL PROJECTS

Brushing (197+50 to 220+00)	16 hrs.	@	\$43.33 /hr.	=	\$693
--------------------------------	---------	---	--------------	---	-------

TOTAL SPECIAL PROJECTS=	\$693
--------------------------------	--------------

GRAND TOTAL =====>	\$55,104
------------------------------	-----------------

Compiled by:	C. Humcke / D. Wiger
Date:	Feb 11, 2009

SUMMARY OF CONSTRUCTION COST

SALE Strombo Combo Project #1 LENGTH Improve 12.0 sta
ROAD C to C1 (unsurfaced, no ditch)

IMPROVEMENT With D7 dozer or equivalent

Re-open road	12.0 sta.	@	\$60.63	/sta	=	\$728
Shape subgrade (with road grader)	12.0 sta.	@	\$10.31	/sta	=	\$124

TOTAL IMPROVEMENT = \$852

SURFACING

Spot rock (sta. 4+20)	18 cy of	Size jaw-run	Cost/yd \$20.84	=	\$375
--------------------------	----------	-----------------	--------------------	---	-------

TOTAL ROCK COST = \$375

GRAND TOTAL =====> \$1,227

Compiled by: C. Humcke / D. Wiger
Date: Feb 11, 2009

SUMMARY OF CONSTRUCTION COST

SALE Strombo Combo Project #1 LENGTH Improve 8.5 sta
ROAD D to D1 (unsurfaced, no ditch)

IMPROVEMENT	With D7 dozer or equivalent					
Re-open road	8.5 sta.	@	\$30.31	/sta	=	\$258
Shape subgrade (with road grader)	8.5 sta.	@	\$10.31	/sta	=	\$88
Improve Landing	1.0 hrs.	@	\$121.25	/hr.	=	\$121

TOTAL IMPROVEMENT = \$467

GRAND TOTAL =====> \$467

Compiled by: D. Wiger
Date: Feb 11, 2009

SUMMARY OF CONSTRUCTION COST

SALE	Strombo Combo	Project #1	LENGTH Improve	23.4 sta
ROAD	D to F	(surfaced, ditch)		

IMPROVEMENT

Shape subgrade (with road grader)	23.4 sta.	@	\$12.28 /sta	=	\$287
--------------------------------------	-----------	---	--------------	---	-------

TOTAL IMPROVEMENT	\$287
-------------------	-------

SURFACING

		Size	Cost/yd		
Surface rock (4" lift)	515 cy of	1½-0"	\$20.67	=	\$10,645
Turnouts (1)	18 cy of	2½-0"	\$20.19	=	\$363
Fillet Rock (Pt. D)	36 cy of	1½-0"	\$20.67	=	\$744
Curve widening	34 cy of	1½-0"	\$20.67	=	\$703

TOTAL ROCK COST =	\$12,455
-------------------	----------

GRAND TOTAL =====>	\$12,742
------------------------------	-----------------

Compiled by: C. Humcke / D. Wiger
 Date: Jan 26, 2009

SUMMARY OF CONSTRUCTION COST

SALE	Strombo Combo	Project #1		LENGTH total		13.5 sta
ROAD	E to E1	(unsurfaced, no ditch)				
IMPROVEMENT	With D7 dozer or equivalent					
Re-open road (0+00 to 2+00)	2.0 sta.	@	\$60.63	/sta	=	\$121
Re-open road (2+00 to 13+50)	11.5 sta.	@	\$30.31	/sta	=	\$349
Re-open landing	0.5 hrs.	@	\$121.25	/hr.	=	\$61
Shape subgrade (with road grader)	13.5 sta.	@	\$10.31	/sta	=	\$139
			TOTAL IMPROVEMENT =			\$670

GRAND TOTAL =====> \$670

Compiled by: C. Humcke / D. Wiger
Date: Feb 11, 2009

SUMMARY OF CONSTRUCTION COST

SALE Strombo Combo Project #1 LENGTH Improve 5.4 sta
ROAD E2 to E3 (unsurfaced, no ditch)

IMPROVEMENT With D7 dozer or equivalent
Re-open road 5.4 sta. @ \$30.31 /sta = \$164
Improve Landing 0.5 hrs. @ \$121.25 /hr. = \$61
Shape subgrade 5.4 sta. @ \$10.31 /sta = \$56
(with road grader)

TOTAL IMPROVEMENT = \$281

GRAND TOTAL =====> \$281

Compiled by: C. Humcke / D. Wiger
Date: Feb 11, 2009

SUMMARY OF CONSTRUCTION COST

SALE Strombo Combo Project #1 LENGTH Improve 17.9 sta
 ROAD F to F1 (surfaced; 14.8 sta. no ditch, 3.1 sta. ditched)

IMPROVEMENT

Shape subgrade (with road grader)	14.8 sta.	@	\$8.84 /sta	=	\$131
Shape subgrade (with road grader)	3.1 sta.	@	\$12.28 /sta	=	\$38

TOTAL IMPROVEMENT = \$169

SURFACING

			Size	Cost/yd		
Surface rock (4" lift)	383 cy of		2½-0"	\$20.19	=	\$7,733
Turn-a-round rock (F1)	27 cy of		2½-0"	\$20.19	=	\$545
Turn-a-round rock (sta 13+80)	18 cy of		Jawrun	\$19.33	=	\$348
Junction fillet rock	18 cy of		2½-0"	\$20.19	=	\$363
Curve widening rock	13 cy of		2½-0"	\$20.19	=	\$262

TOTAL ROCK COST = \$9,251

SPECIAL PROJECTS

Brushing (North side of road)	8 hrs.	@	\$43.33 /hr.	=	\$347
----------------------------------	--------	---	--------------	---	-------

TOTAL SPECIAL PROJECTS= \$347

GRAND TOTAL =====> \$9,767

Compiled by: C. Humcke / D. Wiger
 Date: Feb 11, 2009

SUMMARY OF CONSTRUCTION COST

SALE Strombo Combo Project #1 LENGTH Improve 41.6 sta
ROAD F to G (surfaced, no ditch)

IMPROVEMENT

Shape subgrade (with road grader)	41.6 sta.	@	\$8.84 /sta	=	\$368
Re-open landing (26+70)	0.5 hrs.	@	\$121.25 /hr.	=	\$61

TOTAL IMPROVEMENT = \$429

SURFACING

		Size	Cost/yd		
Surface rock (4" lift)	915 cy of	1½-0"	\$20.67	=	\$18,913
Turn-a-round (sta 11+60)	18 cy of	2½-0"	\$20.19	=	\$363
Curve widening rock	21 cy of	1½-0"	\$20.19	=	\$424
Landing (sta 26+70)	18 cy of	Jaw run	\$17.83	=	\$321

TOTAL ROCK COST = \$20,021

GRAND TOTAL =====> \$20,450

Compiled by: C. Humcke / D. Wiger
Date: Jan 26, 2009

SUMMARY OF CONSTRUCTION COST

SALE Strombo Combo Project #1 LENGTH Improve 10.1 sta
 ROAD G to G1 (surfaced, 3.5 sta no ditch, 6.6 sta ditched)

IMPROVEMENT

Re-open road	10.1 sta.	@	\$24.25 /sta	=	\$245
Drift 3+50 to 5+00	1.0 hr.	@	\$121.25 /hr.	=	\$121
Construct landing (sta 5+00)	1.0 hr.	@	\$121.25 /hr.	=	\$121
Drift 8+40 to 7+70	1.5 hr.	@	\$121.25 /hr.	=	\$182
Re-open landing (G)	0.5 hr.	@	\$121.25 /hr.	=	\$61
Shape subgrade (with road grader)	3.5 sta.	@	\$10.31 /sta	=	\$36
Shape subgrade (with road grader)	6.6 sta.	@	\$16.22 /sta	=	\$107
Compact subgrade (with vibratory roller)	10.1 sta.	@	\$8.31 /sta	=	\$84

TOTAL IMPROVEMENT = \$957

SURFACING

		Size	Cost/yd		
Surface rock (8" lift)	422 cy of	1½-0"	\$20.67	=	\$8,723
Curve widening rock	10 cy of	1½-0"	\$20.67	=	\$207
Landing rock (2)	54 cy of	Jaw run	\$17.83	=	\$963
Turn-a-round (G)	18 cy of	2½-0"	\$20.19	=	\$363

TOTAL ROCK COST = \$10,256

GRAND TOTAL =====> \$11,213

Compiled by: C. Humcke / D. Wiger
 Date: Feb 11, 2009

SUMMARY OF CONSTRUCTION COST

SALE Strombo Combo - Project #2 Post Harvest
ROAD

SURFACING (patch rock)		Size	Cost/CY		
A to B (10 landings)	90 cy of	1½-0"	\$19.17	=	\$1,725
D to F (3 landings)	27 cy of	1½-0"	\$19.17	=	\$518
F to F1 (2 landings)	18 cy of	2½-0"	\$18.69	=	\$336
F to G (5 landings)	45 cy of	1½-0"	\$19.17	=	\$863
G to G1 (1 landings)	9 cy of	1½-0"	\$19.17	=	\$173
Turn-a-round rock - Pt F1	27 cy of	2½-0"	\$18.69	=	\$505
Turn-a-round rock - Pt G1	27 cy of	2½-0"	\$18.69	=	\$505

TOTAL SURFACING COST = \$4,625

MISCELLANEOUS PROJECTS

Tank traps					
C to C1	0.5 hr.	@	\$68.75 /hr.	=	\$34
D to D1	0.5 hr.	@	\$68.75 /hr.	=	\$34
E to E1	0.5 hr.	@	\$68.75 /hr.	=	\$34

TOTAL MISCELLANEOUS PROJECTS = \$102

GRAND TOTAL =====> \$4,727

Compiled by: C. Humcke / D. Wiger
Date: Jan 26, 2009

TIMBER SALE SUMMARY

Sale Name: Strombo Combo 341-09-54

Sale Type: Area I – modified clearcut harvest: 32 net acres; Areas II and III – automark commercial thinning harvest: 100 net acres; recovery sale; 92% BOF (by volume), and 8% CSL, located in Lincoln County.

Sale Area: Portions of Sections 19 & 30, T11S, R8W, and Portions of Sections 24 & 25, T11S, R9W, W.M., Lincoln County, Oregon.

Access: From Philomath, travel west on Hwy. 20 for 17 miles to Burnt Woods. Turn left on Harlan-Burnt Woods Road and travel 2 miles to Burnt Woods Ridge Road (Point A). Turn right and proceed 5.3 miles to Point C which is the west side of Area II. Area I is northwest of point C on Stromboulder Road. Area III is east of Point C.

Boundaries: Area I is posted with "Timber Sale Boundary" signs, fluorescent pink flagging, and fluorescent red paint. Areas II and III are posted with "Timber Sale Boundary" signs and fluorescent pink flagging. The boundary between Areas II and III is posted with yellow "Area Boundary" signs and blue and white striped flagging. Patchcuts in Area II are posted with pink "Patchcut Boundary" signs and blue and white striped flagging. The Type N stream buffer in Area II is not posted.

Timber Description: The timber sale consists of three separate areas. Area I is a modified clearcut. Areas II and III are partial cuts which will be thinned from below leaving the biggest and best Douglas-fir trees. Areas I and II are natural stands. The north half of Area I and all of Areas II and III were commercially thinned 10 years ago. Area III is part of the buffer area for the Wolf Creek Progeny site.

Area I: This area supports a 57 year old Douglas-fir natural stand. About 100 Douglas-fir trees per acre will be harvested. The average DBH of these trees is 20 inches. Approximately 10 reserve trees per acre will remain after harvest.

Area II: This area supports a 57 year old Douglas-fir natural stand. The target residual basal area is 160 ft² per acre. About 64 trees per acre will be harvested. The average DBH of these "take" trees is 18 inches. Approximately 40 trees per acre will remain after harvest. The average DBH of leave trees will be approximately 25 inches. There are 9 patchcuts in the area.

Area III: This area supports a 36 year old Douglas-fir plantation. The target residual basal area is 50 ft² per acre. About 54 trees per acre will be harvested. The average DBH of these "take" trees is 17 inches. Approximately 20 trees per acre will remain after harvest. The average DBH of leave trees will be approximately 21 inches.

Topography:

Area I: Slopes are moderate to steep ranging from 30-65% with a southwest aspect.

Area II: Slopes are gentle to steep ranging from 0-65% with a south aspect.

Area III: Slopes are gentle ranging from 0-25% with a south aspect.

Streams: The Type N stream in Area II has an unposted 25 foot horizontal buffer on either side of it. All timber within 25 feet horizontal distance on either side of the Type N stream is reserved from harvest. The upper limit of the stream is marked with a 4” x 4” aluminum tag and fluorescent pink flagging.

Reserve Trees: In Area I, in the patchcuts located in Area II, and in Area III all trees marked with fluorescent red paint are reserved from cutting. In Areas II and III, hardwoods, western hemlock and western redcedar are reserved from cutting excluding, yarding corridors and skid roads. In Area II patchcuts, hemlock and cedar are reserved from cutting but hardwoods are not reserved from cutting. In Area II, all Genetic Parent Trees marked with yellow paint are reserved from cutting. All trees within 25 feet either side of the Type N stream in Area II are reserved from cutting. All trees in the progeny area to the west of Area III are reserved from cutting.

T & E Surveys: This sale has been surveyed for northern spotted owls and marbled murrelets in 2007 and 2008, with no detections.

Logging Methods: Approximately 88% of the sale volume will require cable yarding; the remaining 12% can be ground skidded.

Projects: No. 1 – Road Improvement 8.0 miles
No. 2 – Post Harvest Activities

Other Requirements: 15 hours of firewood sorting along roads and landings. 20 hours of slash and brush piling is required in 3 patchcuts located in Area II and all of Area III. 32 trees are required to be topped to create snags. 32 trees are to be felled to create downed wood.

Cruise Summary:

MBF Volume

Area	Gross Acres	Net Acres*	Species	Gross Volume	Net Volume	% Hidden D&B	Final Adjusted Volume
I	33	32	Douglas-fir	1547	1534	3	1488
II	106	93	Douglas-fir	1945	1935	3	1877
III	7	7	Douglas-fir	55	54	3	53
Total	146	132	Douglas-fir	3,547	3,523		3,418

* Net acres represent a reduction of gross acres to account for existing roads, streams, and non-thinnable areas. Acres were determined using GIS and orthophotos.

Grade by %

Area	Species	SM	2 Saw	3 Saw	4 Saw
I	Douglas-fir	1%	77%	19%	3%
II	Douglas-fir	0%	68%	25%	7%
III	Douglas-fir	0%	0%	83%	17%
Total	Douglas-fir	1%	70%	24%	5%

Cruise Methods: Areas I and II were cruised using variable radius plots and a 40 BAF prism along with a Big BAF of 160. Area III was cruised using variable radius plots and a 20 BAF prism along with a Big BAF of 40. A 2.75 by 2.75 chain grid was laid out in order to sample Area I. On each plot, all conifers were considered "take" unless reserved. A 3 by 3 chain grid was laid out in order to sample Area II. A 2 by 2 chain grid was laid out in order to sample Area III. On each plot, all conifer trees were counted and "take" trees were chosen based on which were the smallest and/or most defective. The DBH of some leave trees were measured and some were estimated. For all areas the DBH of all "take" trees was measured and take trees that were determined to be "in" using Big BAF were measured for volume and grade.

Tree form: Form point was at 16 feet. Form factor for each measured conifer was determined using a relaskop and the formula of number of bars at form point divided by number of bars at DBH.

Measurement Standards: Heights for Douglas-fir were measured to the nearest foot to a top cruise diameter of 6 inches inside bark. Diameters were measured at breast height to the nearest inch.

Grading System: All trees were graded in a maximum of 40 foot segments unless defect or length to top cruise diameter warranted otherwise.

Utilization Standards: For Douglas-fir a minimum log segment of 6 inches in diameter (inside bark) by 12 feet in length was used. Only trees 6 inches DBH and 12 feet in length and larger were cruised.

Hidden Defect and Breakage: A hidden D & B of 3% was applied to the stands.

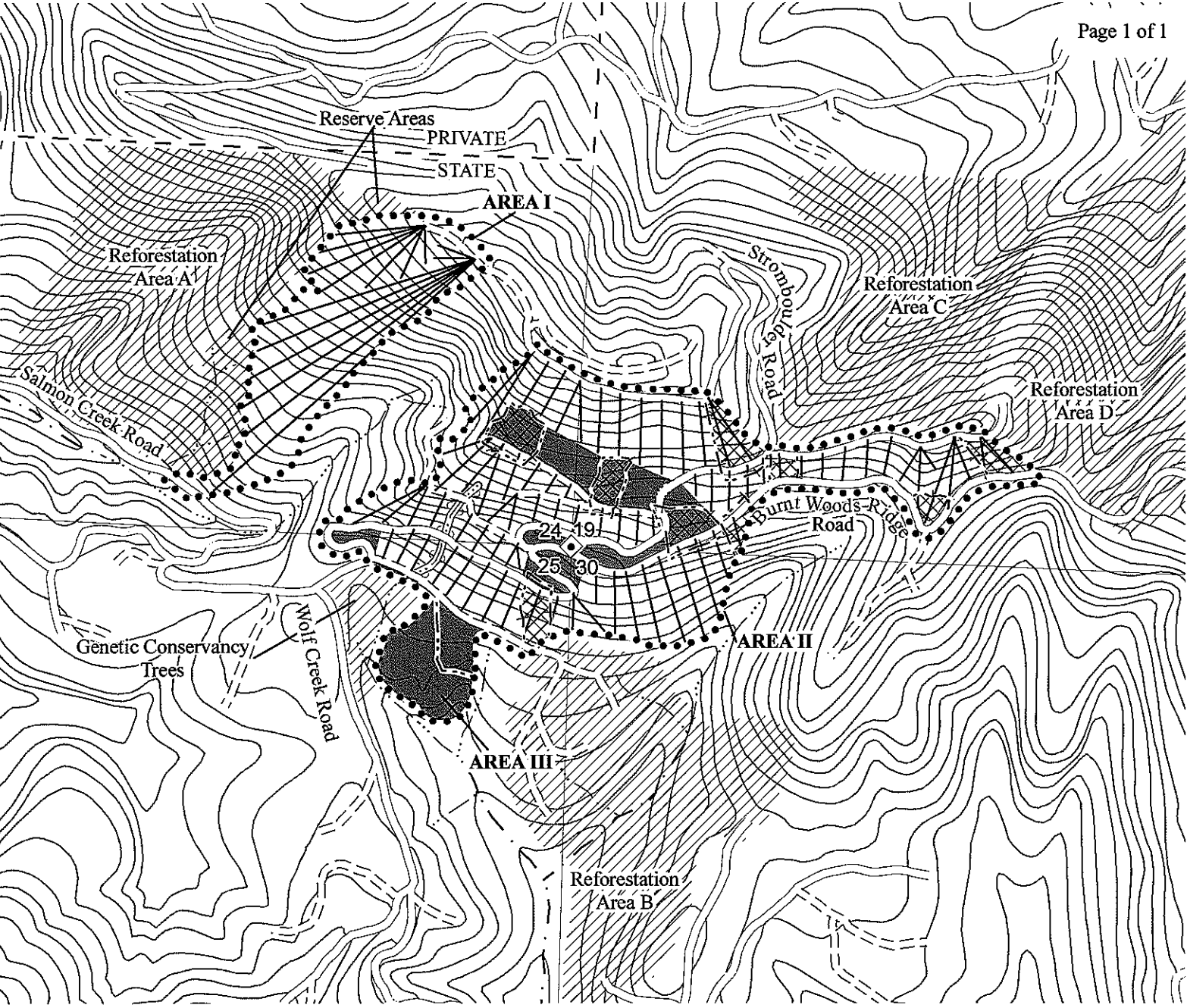
Computation Procedures: All cruise data was entered into the SuperAce program and calculated at the district office.

Cruisers/ Dates: The sale areas were cruised by B. McKinley, J. Moore, D. McMinds, D. Wiger, J. Hayzlett, E. Hukari and T. O'Connor in November of 2008.

Signatures:

Cruise Specialist _____

Unit Forester _____



LEGEND

- Boundaries
- Timber Sale Boundary
- + - - Patchcut Boundary
- - - - Area Boundary (Posted)
- - - State Forest Property Boundary
- Roads
- ==== Surfaced Road
- == == Unsurfaced Road
- Streams
- - · Type F
- · · · Type N
- ~~~~~ Stream Buffer (Unposted)
- Yarding Method
- Tractor Yarding Area
- Cable Corridor
- /// Restricted Operation Area
- ××× Patchcut
- ◆ Land Survey Monument
- 40 Foot Contours

LOGGING PLAN

OF TIMBER SALE CONTRACT NO. 341-09-54
 STROMBO COMBO
 PORTIONS OF SECTIONS 19 & 30, T11S, R8W,
 AND SECTIONS 24 & 25, T11S, R9W, W.M.,
 LINCOLN COUNTY, OREGON

This product is for informational use and may not have been prepared for of be suitable for legal, engineering, or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of this information.

AREA	NET ACRES	
	TRACTOR	CABLE
I (MC)	0	32
II (PC)	18	75
II (RC)	7	0
TOTAL	25	107

