Timber Sale Appraisal
Southwest Kerby
Sale GP-341-2017-99-

District: Southwest

Date: April 07, 2017

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	$159,952.20	$0.00	$159,952.20
		Project Work:	($5,244.00)
		Advertised Value:	$154,708.20

Timber Sale Appraisal
Southwest Kerby
Sale GP-341-2017-99-

District: Southwest **Date: April 07, 2017**

Timber Description

Location: Located in portions of Section 36, T38S, R7W, W.M., Josephine County, Oregon (near the town of Selma, Oregon).

Stand Stocking: 80%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	17	0	90
Sugar Pine	25	0	90

Volume by Grade	2S	3S	4S	Total
Douglas - Fir	181	254	79	514
Sugar Pine	0	0	4	4
Total	181	254	83	518

Comments: Pond Values Used: 1st Quarter Calender Year 2017.

This is a two unit, 39.6 acre clear-cut of trees between 11-32 inches DBH.

Area I: Uphill Yarding
Area II: Downhill Yarding
Area II (North Portion) Option: Upon approval from STATE, a portion (20%) of the unit could be ground based logging.

BLM trees will be marked and sold seperately from ODF timber. The BLM tree volumes are not included in this appraisal.

Incense Cedar and Other Cedars Stumpage Price = Pond value minus Logging Cost:
$325/MBF = $695/MBF - $370/MBF

Grand Fir and Other Conifers Stumpage Price = Pond Value minus Logging Cost:
$211.53/MBF = $581.53/MBF - $370/MBF

Madrone and Other Hardwoods = $40/MBF

SCALING COST ALLOWANCE = $5.00/MBF

BRANDING AND PAINTING COST ALLOWANCE = $2.00/MBF

FUEL COST ALLOWANCE = $3.00/Gallon

HAULING COST ALLOWANCE
Hauling costs equivalent to $780 daily truck cost.

Other Costs (with Profit & Risk to be added):
None.

Other Costs (No Profit & Risk added):
Extra Fees: BLM road use fee of $1,770.04 that is included in the No Profit & Risk section of the appraisal.
TOTAL Other Costs (No Profit & Risk added) = $1,770.04

Performance Bond: Purchaser shall obtain a Performance Bond of $2,000 dollars in favor of the BLM for road usage/maintenance. This bond is refundable after the timber sale is compelete. This is not included in the appraisal.

PROJECT WORK:

Area I: Light road brushing and reshaping with some heavy blading and reshaping in sections.

Area II: Light road brushing to open up roads.

Timber Sale Appraisal
Southwest Kerby
Sale GP-341-2017-99-

District: Southwest **Date: April 07, 2017**

Logging Conditions

Combination#: 1

Douglas - Fir	57.00%
Sugar Pine	100.00%

Logging System: Cable: Medium Tower >40 - <70 **Process:** Manual Falling/Delimbing

yarding distance: Medium (800 ft) **downhill yarding:** Yes

tree size: Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF

loads / day: 8.5 **bd. ft / load:** 3800

cost / mbf: $255.42

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

Combination#: 2

Douglas - Fir	43.00%

Logging System: Cable: Medium Tower >40 - <70 **Process:** Manual Falling/Delimbing

yarding distance: Medium (800 ft) **downhill yarding:** No

tree size: Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF

loads / day: 8.5 **bd. ft / load:** 3800

cost / mbf: $204.33

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

Timber Sale Appraisal
Southwest Kerby
Sale GP-341-2017-99-

District: Southwest **Date: April 07, 2017**

Logging Costs

Operating Seasons:	1.00	**Profit Risk:**	12%
Project Costs:	$5,244.00	**Other Costs (P/R):**	$0.00
Slash Disposal:	$0.00	**Other Costs:**	$1,770.04

Miles of Road

Road Maintenance: $0.00

Dirt	Rock (Contractor)	Rock (State)	Paved
0.0	0.0	2.0	0.0

Hauling Costs

Species	$ / MBF	Trips/Day	MBF / Load
Douglas - Fir	$0.00	3.0	3.8
Sugar Pine	$0.00	3.0	4.0

Timber Sale Appraisal
Southwest Kerby
Sale GP-341-2017-99-

District: Southwest **Date: April 07, 2017**

Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling / Brand & Paint	Other	Total
Douglas - Fir									
$233.45	$1.80	$8.47	$75.26	$0.00	$38.28	$0.00	$7.00	$3.42	$367.68
Sugar Pine									
$255.42	$1.80	$8.47	$71.50	$0.00	$40.46	$0.00	$7.00	$3.42	$388.07

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	$0.00	$678.00	$310.32	$0.00
Sugar Pine	$0.00	$500.00	$111.93	$0.00

Timber Sale Appraisal
Southwest Kerby
Sale GP-341-2017-99-

District: Southwest **Date: April 07, 2017**

Summary

Amortized

Specie	MBF	Value	Total
Douglas - Fir	0	$0.00	$0.00
Sugar Pine	0	$0.00	$0.00

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	514	$310.32	$159,504.48
Sugar Pine	4	$111.93	$447.72

Gross Timber Sale Value

Recovery: $159,952.20

Prepared By: Wyatt Taylor **Phone:** 541-471-3152

TIMBER SALE SUMMARY
Southwest Kerby
Contract No. 341-17-99

1. **Type of Sale:** Recovery sale, sealed bid auction of 39.6 acres of clearcut.

2. **Revenue Distribution:** 100% CSL

3. **Sale Acreage:** This is a 39.6 acre sale comprising of two units, Area I and Area II. The sale boundary was determined using topographic imagery and ArcGIS data.

4. **Volume:** Take trees in Area I and II are all unmarked trees between 11-32inches DBH, while some trees in Area II will be marked with blue paint at DBH.

SPECIES	2 SAW	3 SAW	4 SAW	NET VOL (MBF)
Douglas-fir	181	254	79	514
Sugar Pine	0	0	4	4
Total	**181**	**254**	**83**	**518**

5. **Cruise Data**: The total volume above is measured to 10% sampling error, meaning the actual volume will fall between 466 MBF and 570 MBF (68% of the time). The volume of individual species will be more variable due to the smaller sample compared to the total volume sample. See the cruise report for more detail.

6. **Timber Description:** The timber has been selected for a regeneration cut with GTR trees scattered throughout the unit. The take trees will be between 11-32 inches DBH with an average DBH of 17 inches for Doug-fir. The leave trees are 11 inches or less and 32 inches or greater in DBH and will be used for the scattered GTR trees in Area I and II.

7. **Topography and Logging Method:** Area I and II will be 100% cable yarding. There is a ground based option for Area II if a logging plan is created and approved for the north/northwest part of the unit where the slope is below 35%. This would allow for approximately 20% of the unit to be accessed by ground based logging equipment, however, this is not a planned option which is why it is not accounted for in the actual appraisal. This logging plan would have to be approved by STATE and BLM representatives to ensure it would meet both regulatory standards held by each party, and limit the impact on the residual stand.

8. **Access:** The haul routes are located on BLM and County maintained roads. The appraisal includes regular road maintenance from the start to completion of the timber sale, which is specified in the prospectus.

9. **Projects:**

   - Road Improvement Area I: The majority of the road will need light brushing and reshaping with the exception of a portion in the middle that will require heavy blading and reshaping.

- Road Improvement Area II: The road, BLM 38-7-25.3, into the unit will need some improvements to clear the brush, open the road, and create landing spots for the yarder.

10. **Road Maintenance:** The appraisal includes $1.80/MBF for road maintenance (grading, pulling ditches, etc.).

11. **Other Costs:** The appraisal includes $7/ MBF for scaling and branding/paint and. Costs not accounted for in the appraisal are the responsibility of the Purchaser.

12. **Slash Disposal:** Purchaser will pile slash on landings with an excavator or log loader, sorting out firewood into a separate pile. ODF will burn the slash piles at the completion of the timber sale.

Project Summary

	Project	Length (miles)	Cost per/mile	Totals
Area I	Road Improvements	1	$ 800.00	$ 800.00
	Heavy Blading	0.4	$ 1,400.00	$ 560.00
	Reshaping ($/100ft)	0.1	$ 150.00	$ 1,584.00
			Subtotal	**$ 2,944.00**
Area II	Road Improvements	1	$ 800.00	$ 800.00
			Subtotal	**$ 800.00**
Mobilization				$ 1,500.00
			Subtotal	**$ 1,500.00**
			Total Costs	**$ 5, 244.00**

Description:

Area I: The majority of the road will need light brushing and reshaping with the exception of a portion in the middle that will require heavy blading and reshaping.

Area II: The road, BLM 38-7-25.3, into the unit will need some improvements to clear the brush, open the road, and create landing spots for the yarder.

Extra Fees: BLM road use fees include, road maintenance fee of $1,560.20 and a surface replacement fee of $209.84, for a total of $1,770.04.

- There is also a $2,000 dollar performance bond that is required by the purchaser in favor of the BLM for road usage and is not included in the project work or appraisal. This bond is refundable at the completion of the timber sale and road maintenance check by the BLM.
- License agreement with the BLM and Josephine County requires the purchaser to maintain the roads. If purchaser does not maintain the road the licenser is entitled to recover expenses at a rate of $1.19/MBF/Mile.

OREGON DEPARTMENT of FORESTRY
CRUISE REPORT

SALE NAME: Southwest Kerby SALE NUMBER: 341-17-99

1. **Acreage Calculation:** There are two units totaling 39.6 net cruise acres in the sale area determined by a combination of GPS points and ArcMap 10.3.1 GIS software. There were 3 acres of green tree retention (GTR) in both Areas I and II totaling 6 acres for the entire sale.

2. **Cruise Method:** Southwest Kerby was cruised by ODF in November and December of 2016. A variable plot cruise was conducted on Areas I and II based on the size of the timber and cutting prescription.

3. **RIGHT of WAY VOLUMES**: There was no volume needed to be accounted for from new construction.

4. **Group Selection Areas**: Areas I and II: Will have a few scattered residual GTR and wildlife trees throughout the units after operations are completed. Trees with a DBH (Diameter at Breast Height) of 11in or less and 32in or greater will be excluded from harvesting.

5. **Sampling Intensity**:

CV (BA)	62% (DF)
SE	10% (Take Trees)
# Plots	22 Full Measure plots and 39 Total Plots

*All volumes are reported at the 68% confidence level according to ODF standards. The average conifer volume of take trees was 13 MBF per acre on 39.6 acres for a total volume of 518 MBF (± 52MBF).

6. **Form Factors:** Form factors (a ratio of diameter at 4 and 16 feet) were measured for all take trees and measured or estimated on non-candidate measure trees.

7. **Height Standards:** Most conifer trees were measured for total height with a laser rangefinder.

8. **Diameter standards:** Diameters were measured outside bark at breast height (4.5ft) to the nearest inch.

9. **Grading System:** All trees were graded using 34 foot segments and according to Official Log Scaling and Grading Rules published by the Northwest Log Rules Advisory Group.

10. **Merchantable top:** Conifer were cruised (graded) to a 5 or 6 inch merchantable top. (Outside bark.)

11. **Computation Procedures:** Volume was computed using the SuperAce cruise program.

12. **Deductions for Cull, Defect and Breakage:** All visible field cull was removed in the cruise computation. Additional volume was deducted for the anticipated amount of hidden cull and breakage during logging. The estimated volume reduction used for this anticipated loss to volume was 9%.

13. **Cruisers:** The sale was cruised by Chris Rudd and Wyatt Taylor.

*ODF does not guarantee the volume of this or any other cruise. Prospective purchasers are advised to do their own cruise and sale volume calculations.

Chris Rudd, Unit Forester

Date

OREGON DEPARTMENT of FORESTRY
CRUISE REPORT

	Plots	Trees	Trees Per Plot
Cruise	22	97	4.4
Count	17	72	4.2
Total	39	169	4.3

Summary Volume Table
Total Net Volume (BF) Sale Area

	2 Saw	3 Saw	4 Saw	5 Saw	6 Saw	Totals
Douglas-fir	181,429	254,053	79,012	0	0	514,494
Sugar Pine	0	0	3,532	0	437	3,969
Totals	**181,429**	**254,053**	**82,544**	**0**	**437**	**518,463**

Summary Volume Table
Total Net Volume (%) All Areas

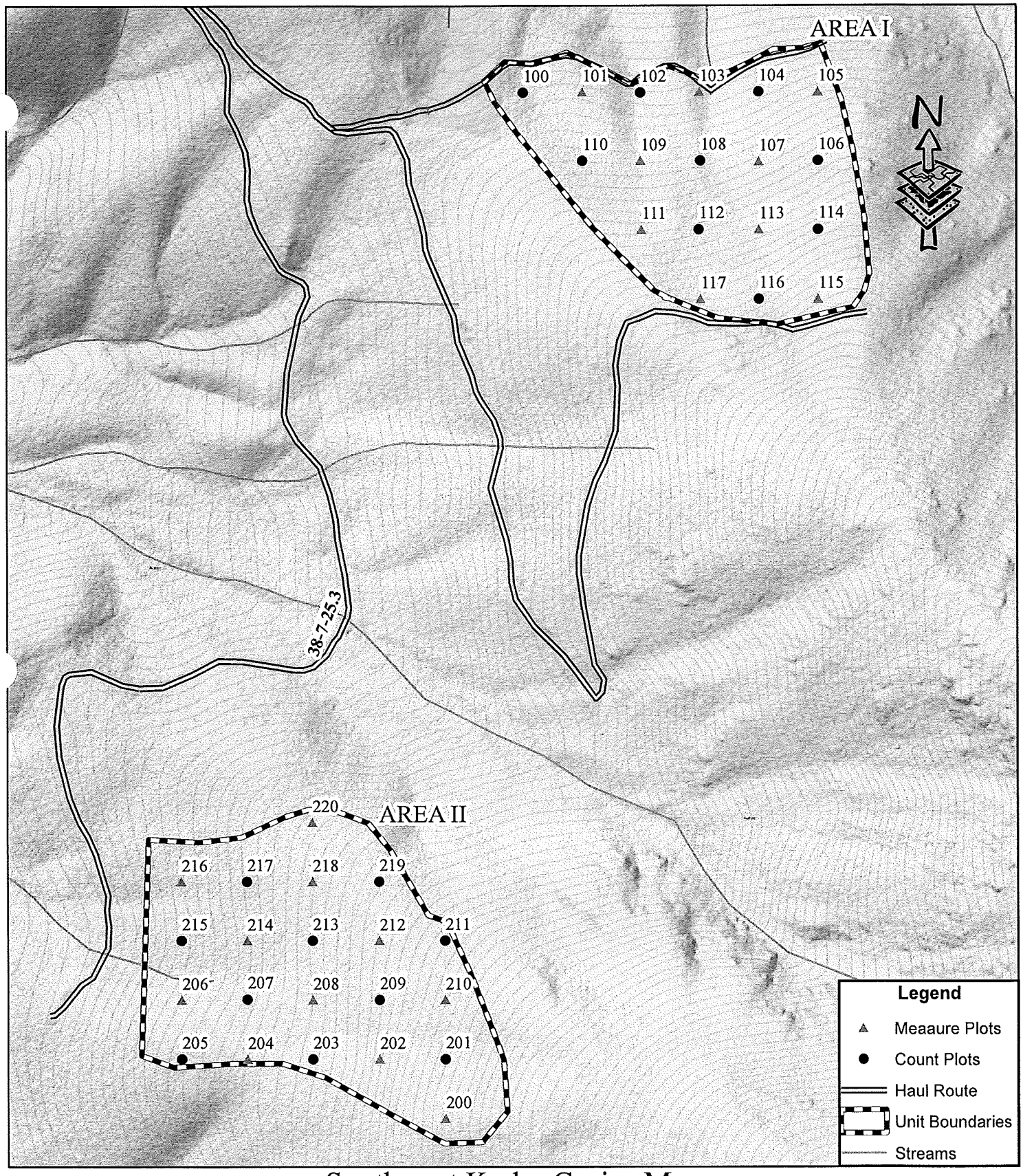
	2 Saw	3 Saw	4 Saw	5 Saw	6 Saw	Totals
Douglas-fir	35%	49%	15%	0%	0%	99%
Sugar Pine	0%	0%	1%	0%	0%	1%

Project Summary

Species Status	Sample Trees	TPA	Avg DBH	Bole Length	BA	Gross Bf/Ac	Net Bf/Ac	Total MBF
Doug-Fir	80	64.3	17.1	84	102.6	14,440	12,992	514,494
Sugar Pine	1	0.4	25	73	1.4	113	100	3,969
Totals	**81**	**65**	**21**	**79**	**104**	**14,553**	**13,092**	**518,463**

Board Foot Volume Summary by Strata

Area	Acres	Plots	Net BF/ac	CV	SE	SE units	Low (BF)	Average Total (BF)	High (BF)
1	18.5	18	11,913	43%	10%	22,260	198,136	220,396	284,581
2	21.1	21	14,126	73%	16%	46,552	251,515	298,067	344,619
Total Sale Area	**39.6**	**39**	**13,092**	**62%**	**10%**	**51,600**	**466,863**	**518,463**	**570,063**



Southwest Kerby Cruise Map

3 x 3.5 Chain Spacing

Area I & Area II

0 0.075 0.15 Miles

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PROJECT KERBY17

DATE 12/7/2016

TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
38S	7W	36	AREA1	CC	18.50	18	74	S	W

	PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES
TOTAL	18	74	4.1		
CRUISE	11	46	4.2	1,616	2.8
DBH COUNT					
REFOREST					
COUNT	7	28	4.0		
BLANKS					
100 %					

STAND SUMMARY

	SAMPLE TREES	TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
DOUG FIR-L	8	24.4	10.8	49	4.7	15.4	821	821	202	202
DOUG FIR-T	36	62.6	16.7	80	23.4	95.7	13,237	13,237	3,131	3,131
OGDF-L	2	.4	38.7	145	0.5	3.1	849	849	152	152
TOTAL	*46*	*87.4*	*15.5*	*72*	*29.0*	*114.2*	*14,907*	*14,907*	*3,485*	*3,485*

CONFIDENCE LIMITS OF THE SAMPLE

68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR

SAMPLE TREES - BF

CL: 68.1 % SD: 1.0

	COEFF VAR.%	S.E.%	LOW	AVG	HIGH	# OF TREES REQ. 5	10	INF. POP. 15
DOUG FIR-L	88.1	33.2	23	34	45			
DOUG FIR-T	87.2	14.5	272	318	364			
OGDF-L	24.3	22.8	1,754	2,270	2,786			
TOTAL	*141.3*	*20.8*	*280*	*353*	*427*	*797*	*199*	*89*

SAMPLE TREES - CF

CL: 68.1 % SD: 1.0

	COEFF VAR.%	S.E.%	LOW	AVG	HIGH	# OF TREES REQ. 5	10	INF. POP. 15
DOUG FIR-L	88.4	33.3	6	8	11			
DOUG FIR-T	75.4	12.6	63	72	81			
OGDF-L	21.4	20.1	325	407	488			
TOTAL	*119.8*	*17.7*	*62*	*75*	*89*	*573*	*143*	*64*

TREES/ACRE

CL: 68.1 % SD: 1.0

	COEFF VAR.%	S.E.%	LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DOUG FIR-L	155.9	37.8	15	24	34			
DOUG FIR-T	41.7	10.1	56	63	69			
OGDF-L	291.7	70.7	0	0	1			
TOTAL	*58.3*	*14.1*	*75*	*87*	*100*	*144*	*36*	*16*

BASAL AREA/ACRE

CL: 68.1 % SD: 1.0

	COEFF VAR.%	S.E.%	LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DOUG FIR-L	154.0	37.3	10	15	21			
DOUG FIR-T	37.6	9.1	87	96	104			
OGDF-L	291.0	70.5	1	3	5			
TOTAL	*39.9*	*9.7*	*103*	*114*	*125*	*67*	*17*	*7*

NET BF/ACRE

CL: 68.1 % SD: 1.0

	COEFF VAR.%	S.E.%	LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DOUG FIR-L	202.2	49.0	419	821	1,223			
DOUG FIR-T	44.6	10.8	11,807	13,237	14,668			
OGDF-L	293.0	71.0	246	849	1,451			
TOTAL	*40.4*	*9.8*	*13,448*	*14,907*	*16,366*	*69*	*17*	*8*

NET CUFT FT/ACRE

CL: 68.1 % SD: 1.0

	COEFF VAR.%	S.E.%	LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DOUG FIR-L	203.8	49.4	102	202	302			
DOUG FIR-T	41.5	10.1	2,816	3,131	3,446			
OGDF-L	292.3	70.8	44	152	260			

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PROJECT KERBY17

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DATE 12/7/2016

TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
38S	7W	36	AREA1	CC	18.50	18	74	S	W

CL: 68.1 %	COEFF		NET CUFT FT/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1.0	VAR.	S.E.%	LOW	AVG	HIGH	5	10	15
TOTAL	*38.5*	*9.3*	*3,160*	*3,485*	*3,811*	*63*	*16*	*7*

T TSPCSTGR

Species, Sort Grade - Board Foot Volumes (Type)

Project: KERBY17

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Date 12/7/2016
Time 8:55:16AM

T38S R7W S36 TCC

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt
38S	7W	36	AREA1	CC	18.50	18	46	S	W

T38S R7W S36 TCC

Spp	S T	So rt	Gr ad	% Net BdFt	Bd. Ft. per Acre Def%	Gross	Net	Total Net MBF	Percent Net Board Foot Volume: Log Scale Dia. 4-5	6-11	12-16	17+	Log Length 12-20	21-30	31-35	36-99	Average Log Ln Ft	Dia In	Bd Ft	CF/ Lf	Logs Per /Acre
DF	T	DO	2M	36		4,870	4,870	90			56	44			100		34	16	330	1.93	14.8
DF	T	DO	3M	45		5,922	5,922	110	1	65	30	4	3	1	96		33	10	127	0.90	46.6
DF	T	DO	4M	19		2,445	2,445	45	72	25	3		6	52	30	12	27	5	34	0.41	72.2
DF T Totals				89		13,237	13,237	245	14	34	35	18	2	10	85	2	30	8	99	0.79	133.6
DF	L	DO	4M	100		821	821	15	58	42			14	51	34		26	6	34	0.33	24.1
DF L Totals				6		821	821	15	58	42			14	51	34		26	6	34	0.33	24.1
OG	L	DO	2M	25		213	213	4				100			100		34	26	1060	5.58	.2
OG	L	DO	3M	75		635	635	12	2		8	90		26	36	38	32	17	485	2.72	1.3
OG L Totals				6		849	849	16	2		6	93		19	52	29	32	18	561	3.12	1.5
Type Totals						14,907	14,907	276	15	32	31	21	3	13	81	4	29	8	94	0.76	159.2

TC TLOGSTVB

Log Stock Table - MBF

Project: KERBY17

T38S R7W S36 TCC

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
38S	7W	36	AREA1	CC	18.50	18	46

T38S R7W S36 TCC

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Date 12/7/2016
Time 8:55:16AM

Spp	S T	So Grt	Gr de	Log Len	Gross MBF	% Def	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches 2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
DF	L	DO	4M	20	2		2	.8				2								
DF	L	DO	4M	21	1		1	.4		1										
DF	L	DO	4M	22	2		2	.8				2								
DF	L	DO	4M	23	3		3	1.2		1		2								
DF	L	DO	4M	24	1		1	.6		1										
DF	L	DO	4M	33	3		3	1.0		3										
DF	L	DO	4M	35	3		3	1.0		3										
DF	T	DO	2M	34	90		90	34.6						5		28	50	7		
DF	T	DO	3M	20	3		3	1.2						3						
DF	T	DO	3M	21	1		1	.4		1										
DF	T	DO	3M	34	105		105	40.5				2	28	38	19	14	4			
DF	T	DO	4M	11	1		1	.5		1										
DF	T	DO	4M	12	0		0	.1		0										
DF	T	DO	4M	17	0		0	.1		0										
DF	T	DO	4M	18	1		1	.3		1										
DF	T	DO	4M	21	0		0	.2		0										
DF	T	DO	4M	22	3		3	1.0				3								
DF	T	DO	4M	23	0		0	.2		0										
DF	T	DO	4M	24	6		6	2.2		1		3	2							
DF	T	DO	4M	25	2		2	.8		2										
DF	T	DO	4M	26	3		3	1.3		3										
DF	T	DO	4M	27	5		5	2.1		4				2						
DF	T	DO	4M	28	0		0	.1		0										
DF	T	DO	4M	29	2		2	.9		2										
DF	T	DO	4M	30	1		1	.2		1										
DF	T	DO	4M	31	1		1	.5		1										
DF	T	DO	4M	32	4		4	1.7		4										
DF	T	DO	4M	33	2		2	1.0		2										
DF	T	DO	4M	34	6		6	2.2		2	4									
DF	T	DO	4M	36	1		1	.3		1										
DF	T	DO	4M	39	1		1	.4		1										
DF	T	DO	4M	40	2		2	.7		2										
DF	T	DO	4M	41	2		2	.8		2										
DF			Totals		260		260	94.3		42	6	40	44	26	42	54	7			
OG	L	DO	2M	34	4		4	25.1										4		
OG	L	DO	3M	26	2		2	12.8									2			
OG	L	DO	3M	28	1		1	6.6		0						1				
OG	L	DO	3M	34	4		4	26.9										4		
OG	L	DO	3M	36	4		4	27.7								1		3		
OG	L	DO	3M	38	0		0	.8		0										
OG			Totals		16		16	5.7		0						1	1	2	11	
Total All Species					276		276	100.0		43	6	40	44	26	43	56	9	11		

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STATISTICS

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DATE 12/6/2016

TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
38S	7W	36	AREA2,	CC	21.10	21	95	S	W

	PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES
TOTAL	21	95	4.5		
CRUISE	11	51	4.6	1,631	3.1
DBH COUNT					
REFOREST					
COUNT	10	44	4.4		
BLANKS					
100 %					

STAND SUMMARY

	SAMPLE TREES	TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
DOUG FIR-L	4	10.5	13.6	54	2.9	10.6	1,443	1,443	306	306
DOUG FIR-T	44	65.5	17.4	88	26.0	108.5	15,487	15,487	3,666	3,666
SUG.PINE-L	1	.4	34.0	119	0.5	2.6	457	457	99	99
SUG.PINE-T	1	.8	25.0	73	0.5	2.6	210	210	65	65
OGDF-L	1	.2	39.0	125	0.2	1.3	308	308	57	57
TOTAL	*51*	*77.3*	*17.3*	*83*	*30.2*	*125.7*	*17,905*	*17,905*	*4,193*	*4,193*

CONFIDENCE LIMITS OF THE SAMPLE

68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR

CL: 68.1 %	COEFF		SAMPLE TREES - BF			# OF TREES REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DOUG FIR-L	109.0	62.3	270	715	1,160			
DOUG FIR-T	69.7	10.5	314	351	388			
SUG.PINE-L								
SUG.PINE-T								
OGDF-L								
TOTAL	*92.6*	*13.0*	*369*	*424*	*479*	*343*	*86*	*38*

CL: 68.1 %	COEFF		SAMPLE TREES - CF			# OF TREES REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DOUG FIR-L	107.7	61.6	56	145	234			
DOUG FIR-T	62.9	9.5	73	81	89			
SUG.PINE-L								
SUG.PINE-T								
OGDF-L								
TOTAL	*80.7*	*11.3*	*84*	*95*	*105*	*260*	*65*	*29*

CL: 68.1 %	COEFF		TREES/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DOUG FIR-L	184.5	41.2	6	10	15			
DOUG FIR-T	82.8	18.5	53	65	78			
SUG.PINE-L	315.8	70.6	0	0	1			
SUG.PINE-T	315.8	70.6	0	1	1			
OGDF-L	458.3	102.4		0	0			
TOTAL	*65.4*	*14.6*	*66*	*77*	*89*	*180*	*45*	*20*

CL: 68.1 %	COEFF		BASAL AREA/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DOUG FIR-L	154.8	34.6	7	11	14			
DOUG FIR-T	69.1	15.5	92	108	125			
SUG.PINE-L	315.8	70.6	1	3	5			
SUG.PINE-T	315.8	70.6	1	3	5			
OGDF-L	458.3	102.4		1	3			
TOTAL	*55.3*	*12.4*	*110*	*126*	*141*	*128*	*32*	*14*

TC TSTATS

STATISTICS

PROJECT KERBY17

DATE 12/6/2016

TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
38S	7W	36	AREA2.	CC	21.10	21	95	S	W

CL:	68.1 %	COEFF		NET BF/ACRE			# OF PLOTS REQ.		INF. POP.
SD:	1.0	VAR.	S.E.%	LOW	AVG	HIGH	5	10	15

CL:	68.1 %	COEFF		NET BF/ACRE			# OF PLOTS REQ.		INF. POP.
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DOUG FIR-L		164.0	36.7	914	1,443	1,972			
DOUG FIR-T		70.6	15.8	13,044	15,487	17,930			
SUG.PINE-L		315.8	70.6	135	457	780			
SUG.PINE-T		315.8	70.6	62	210	357			
OGDF-L		458.3	102.4		308	623			
TOTAL		*59.0*	*13.2*	*15,544*	*17,905*	*20,267*	*146*	*37*	*16*

CL:	68.1 %	COEFF		NET CUFT FT/ACRE			# OF PLOTS REQ.		INF. POP.
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DOUG FIR-L		161.3	36.1	196	306	417			
DOUG FIR-T		69.8	15.6	3,094	3,666	4,237			
SUG.PINE-L		315.8	70.6	29	99	169			
SUG.PINE-T		315.8	70.6	19	65	111			
OGDF-L		458.3	102.4		57	115			
TOTAL		*58.0*	*13.0*	*3,649*	*4,193*	*4,736*	*141*	*35*	*16*

T TSPCSTGR

Species, Sort Grade - Board Foot Volumes (Type)

Project: KERBY17

Page 1
Date 12/6/2016
Time 2:00:05PM

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt
38S	7W	36	AREA2.	CC	21.10	21	51	S	W

T38S R7W S36 TCC

T38S R7W S36 TCC

Spp	S T	So rt	Gr ad	% Net BdFt	Bd. Ft. per Acre Def%	Gross	Net	Total Net MBF	Percent Net Board Foot Volume: Log Scale Dia. 4-5	6-11	12-16	17+	Log Length 12-20	21-30	31-35	36-99	Average Log: Ln Ft	Dia In	Bd Ft	CF/ Lf	Logs Per /Acre
DF	T	DO	2M	34		5,284	5,284	111			40	60			100		34	16	373	2.26	14.2
DF	T	DO	3M	52		8,186	8,186	173	2	57	37	4		10	90		33	10	118	0.87	69.4
DF	T	DO	4M	14		2,017	2,017	43	82	18			18	56	21	4	26	5	31	0.35	65.4
DF T Totals				86		15,487	15,487	327	12	33	33	23	2	13	84	1	30	8	104	0.82	149.0
DF	L	DO	2M	25		367	367	8				100			100		34	25	980	5.05	.4
DF	L	DO	3M	47		677	677	14	2			98			100		33	16	443	2.76	1.5
DF	L	DO	4M	28		399	399	8	100					3	97		33	5	40	0.31	10.1
DF L Totals				8	.0	1,443	1,443	30	28			72		1	99		33	7	120	0.77	12.0
SP	L	DO	4S	65		298	298	6				100			100		34	22	710	4.11	.4
SP	L	DO	5S	31		143	143	3			100				100		34	16	340	2.02	.4
SP	L	DO	6S	4		17	17	0	100							100	36	5	40	0.77	.4
SP L Totals				3		457	457	10	4		31	65			96	4	35	14	363	2.27	1.3
SP	T	DO	5S	88		186	186	4			100				100		34	14	240	1.98	.8
SP	T	DO	6S	12		23	23	0	100					100			28	5	30	0.60	.8
SP T Totals				1		210	210	4	11		89			11	89		31	10	135	1.36	1.6
OG	L	DO	3M	90		279	279	6				100			100		34	24	875	4.50	.3
OG	L	DO	4M	10		29	29	1	11		89			100			22	10	90	1.11	.3
OG L Totals				2		308	308	6	1		8	91		9	91		28	17	483	3.17	.6
Type Totals						17,905	17,905	378	13	28	31	29	2	11	86	1	30	8	109	0.84	164.4

TC TLOGSTVB

Log Stock Table - MBF

Project: KERBY17

T38S R7W S36 TCC

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
38S	7W	36	AREA2.	CC	21.10	21	51

T38S R7W S36 TCC

Page 1
Date 12/7/2016
Time 9:16:09AM

Spp	S T	So rt	Gr de	Log Len	Gross MBF	% Def	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches 2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
DF	L	DO	2M	34	8		8	2.2										8		
DF	L	DO	3M	32	3		3	.9		0						3				
DF	L	DO	3M	34	11		11	3.1								3		8		
DF	L	DO	4M	29	0		0	.1		0										
DF	L	DO	4M	33	4		4	1.1		4										
DF	L	DO	4M	34	4		4	1.1		4										
DF	T	DO	2M	34	111		111	31.2						6	28	57	21			
DF	T	DO	3M	11	0		0	.1		0										
DF	T	DO	3M	21	2		2	.4					2							
DF	T	DO	3M	22	3		3	1.0						3						
DF	T	DO	3M	23	1		1	.2		1										
DF	T	DO	3M	24	4		4	1.2					2	2						
DF	T	DO	3M	25	1		1	.2		1										
DF	T	DO	3M	26	2		2	.7		0				2						
DF	T	DO	3M	27	0		0	.1		0										
DF	T	DO	3M	30	5		5	1.5						5						
DF	T	DO	3M	31	1		1	.2		1										
DF	T	DO	3M	32	0		0	.1		0										
DF	T	DO	3M	34	154		154	43.1			9	52	36	27	18	12				
DF	T	DO	4M	14	0		0	.1		0										
DF	T	DO	4M	17	1		1	.4		1										
DF	T	DO	4M	18	1		1	.2		1										
DF	T	DO	4M	19	1		1	.1		1										
DF	T	DO	4M	20	5		5	1.4		2		2	2							
DF	T	DO	4M	21	0		0	.1		0										
DF	T	DO	4M	22	1		1	.3		1										
DF	T	DO	4M	23	2		2	.5		2										
DF	T	DO	4M	24	3		3	.7				3								
DF	T	DO	4M	25	4		4	1.1		4										
DF	T	DO	4M	26	1		1	.3		1										
DF	T	DO	4M	27	4		4	1.1		4										
DF	T	DO	4M	28	2		2	.5		2										
DF	T	DO	4M	29	2		2	.6		2										
DF	T	DO	4M	30	3		3	.9		3										
DF	T	DO	4M	31	1		1	.3		1										
DF	T	DO	4M	34	4		4	1.3		4										
DF	T	DO	4M	35	3		3	1.0		3										
DF	T	DO	4M	38	1		1	.2		1										
DF	T	DO	4M	40	1		1	.3		1										
DF			Totals		357		357	94.6		47	9	56	41	46	46	76	21	16		
SP	L	DO	4S	34	6		6	44.7									6			
SP	L	DO	5S	34	3		3	21.4								3				
SP	L	DO	6S	36	0		0	2.5		0										
SP	T	DO	5S	34	4		4	27.9							4					
SP	T	DO	6S	28	0		0	3.5		0										
SP			Totals		14		14	3.7		1					4	3	6			
OG	L	DO	3M	34	6		6	90.7									2	4		

TC TLOGSTVB

Log Stock Table - MBF

Project: KERBY17

T38S R7W S36 TCC

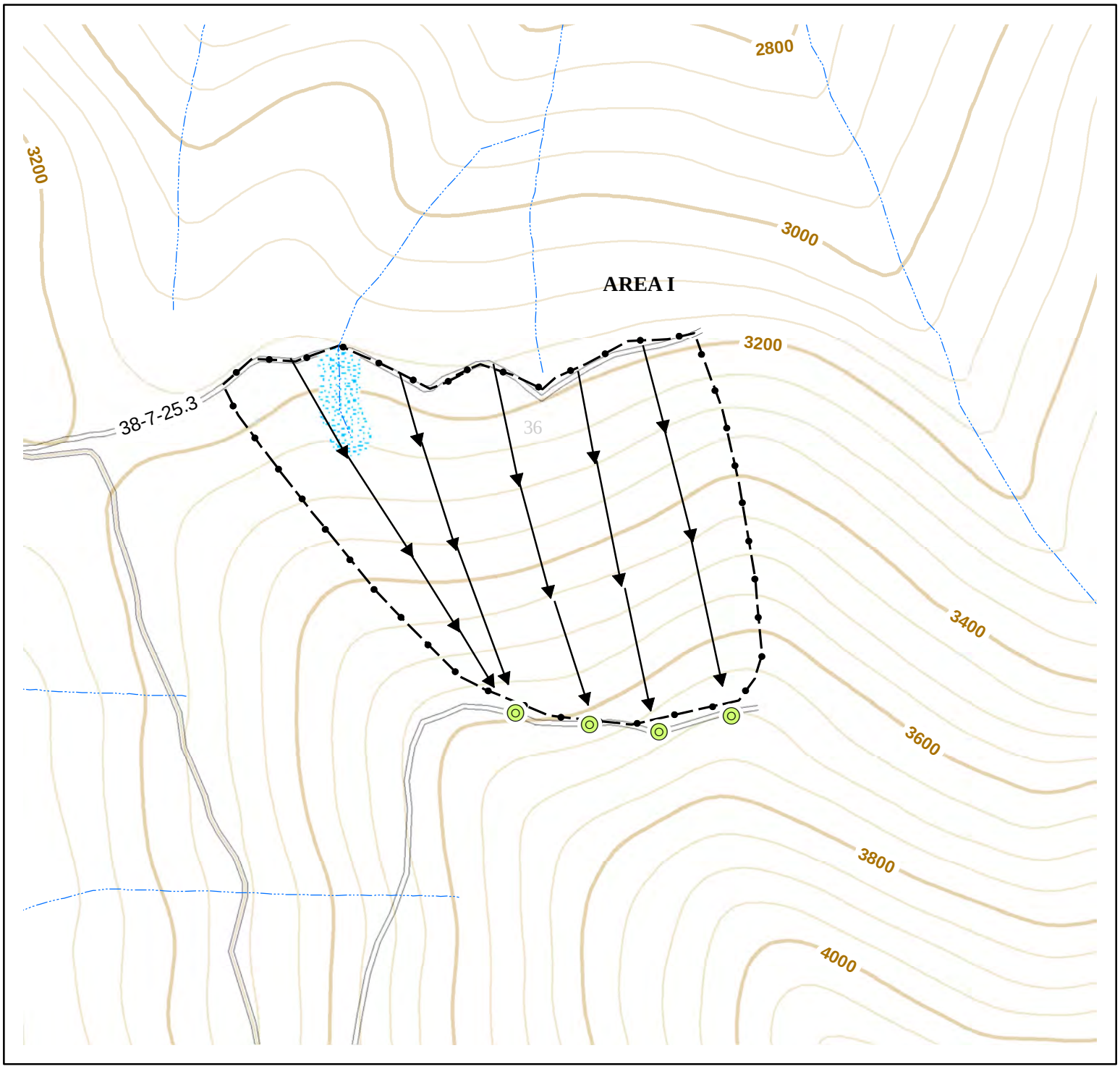
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
38S	7W	36	AREA2.	CC	21.10	21	51

T38S R7W S36 TCC

Date 12/7/2016

Time 9:16:09AM

Spp	S T	So Grade	Log Len	Gross MBF	% Def	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches 2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
OG	L	DO	4M 22	1		1	9.3	0						1					
OG		Totals		6		6	1.7	0						1		2	4		
Total All Species				378		378	100.0	48		9	56	41	46	50	79	29	20		



LOGGING PLAN - AREA I
Sale No. 341-17-99
Southwest Kerby
Section 36, T38S, R7W, W.M.
Josephine County, Oregon
Regulated Use Area SW-3
100% Common School Lands

- Timber Sale Area
- Haul Route
- Corridor
- Landings
- Streams
- Stream Buffer

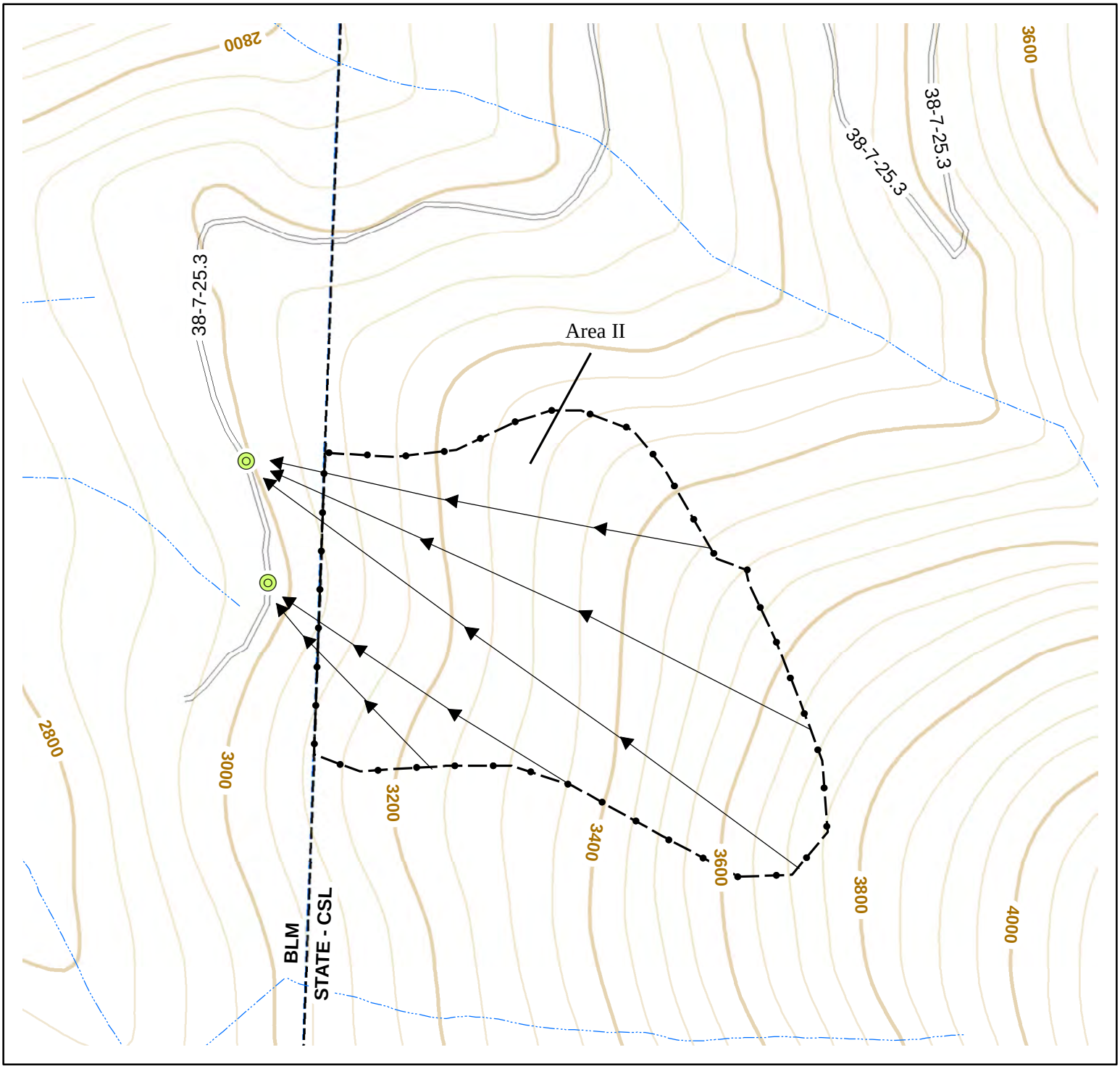
Approx. Net Acres	
Area I	18.5
Area II	21.1
	39.6 ac

N

0 0.05 0.1 Miles

1:4,000 1 in = 0.06 miles

The information shown on Exhibit "A" map(s) are approximate locations. Exact locations of features represented bymap symbols will be determined on site and shall depend upon the conditions that exsist on site. Activities shall be conducted based upon featrues determined on site rather than features shown on maps.



Features

- Timber Sale Area
- Corridor
- Landings
- Streams

Roads

- Haul Route

Contours

- 50'contour
- 200' index

LOGGING PLAN
Sale No. 341-17-99
Southwest Kerby AREA II
Section 36, T38S, R7W, W.M.
Josephine County, Oregon
Regulated Use Area SW-3
100% Common School Lands

N

0 0.05 0.1 Miles

1:4,000 1 in = 0.06 miles

Approx. Net Acres	
Area I	18.5
Area II	21.1
	39.6 ac

The information shown on Exhibit "A" map(s) are approximate locations. Exact locations of features represented bymap symbols will be determined on site and shall depend upon the conditions that exsist on site. Activities shall be conducted based upon featrues determined on site rather than features shown on maps.