

District: Forest Grove Date: February 20, 2019

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$2,241,819.68	\$0.00	\$2,241,819.68
		Project Work:	(\$75,915.00)
		Advertised Value:	\$2,165,904.68

4/01/19



District: Forest Grove Date: February 20, 2019

Timber Description

Location: PORTIONS OF SECTIONS 24 & 25, T3N, R6W, W.M., TILLAMOOK COUNTY, OREGON

Stand Stocking: 20%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	28	0	96
Western Hemlock / Fir	22	0	96

Volume by Grade	28	3S & 4S 6"- 11"	Total
Douglas - Fir	4,130	470	4,600
Western Hemlock / Fir	80	34	114
Total	4,210	504	4,714

4/01/19

Comments: Pond Values Used: Local Pond Values, February 2019.

Western redcedar and Other Cedars Stumpage Price = Pond Value minus Logging Cost:

\$712.56/MBF = \$968/MBF - \$255.44/MBF

Red Alder and other Hardwoods Stumpage Price = Pond Value minus Logging Cost:

\$328.75/MBF = \$608/MBF - \$279.25/MBF

Noble fir and other conifers Stumpage Price = Pond Value minus Logging Cost:

\$303.12/MBF = \$583/MBF - \$279.88/MBF

BRANDING AND PAINTING COST ALLOWANCE =\$2.00/MBF

FUEL COST ALLOWANCE = \$3.00/Gallon

HAULING COST ALLOWANCE

Hauling costs equivalent to \$950 daily truck cost.

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

None

Other Costs (No Profit & Risk added):

Machine Time to Block/Waterbar Roads, and Skid Trails:

20 hours x \$150/hour = \$3,000

Machine Time to Pile Landing Slash:

20 hours x \$150/hour = \$3,000

Equipment Cleaning: 3 pieces x \$1,000/Piece = \$3,000

Slash Treatment: 30 acres x \$200/acre = \$6,000

Non-Project Road Construction: 7 Stations x \$150/Station = \$1,050

TOTAL Other Costs (No Profit & Risk added) = \$16,050

ROAD MAINTENANCE

Move-in: \$4,000

General Road Maintenance: 8.2 miles x \$1,200/mile = \$9,840 TOTAL Road Maintenance: \$13,840 / 4,714 MBF = \$2.94/MBF

4/01/19



Timber Sale Appraisal Hanns Down

Sale FG-341-2019-W00796-01

District: Forest Grove Date: February 20, 2019

Logging Conditions

Combination#: 1 Douglas - Fir 51.15%

Western Hemlock / Fir 51.00%

Logging System: Shovel Process: Stroke Delimber

yarding distance: Short (400 ft) downhill yarding: No

tree size: Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF

loads / day: 10 bd. ft / load: 4800

cost / mbf: \$66.08

machines: Stroke Delimber (B)

Combination#: 2 Douglas - Fir 48.85%

Western Hemlock / Fir 49.00%

yarding distance: Short (400 ft) downhill yarding: No

tree size: Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF

loads / day: 8 bd. ft / load: 4800

cost / mbf: \$156.25

machines: Log Loader (A)

Stroke Delimber (A)
Tower Yarder (Medium)



District: Forest Grove Date: February 20, 2019

Logging Costs

Operating Seasons: 2.00

Profit Risk: 15%

Project Costs: \$75,915.00

Other Costs (P/R): \$0.00

Slash Disposal: \$0.00

Other Costs: \$16,050.00

Miles of Road

Road Maintenance:

\$2.94

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

Hauling Costs

Species	\$ / MBF	Trips/Day	MBF / Load	
Douglas - Fir	\$0.00	2.0	4.8	
Western Hemlock / Fir	\$0.00	2.0	4.0	



District: Forest Grove Date: February 20, 2019

Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Paint	Other	Total
Douglas -	Fir								
\$110.13	\$3.06	\$1.86	\$102.92	\$0.00	\$32.70	\$0.00	\$2.00	\$3.40	\$256.07
Western H	emlock	/ Fir							
\$110.26	\$3.06	\$1.86	\$123.50	\$0.00	\$35.80	\$0.00	\$2.00	\$3.40	\$279.88

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$735.91	\$479.84	\$0.00
Western Hemlock / Fir	\$0.00	\$583.00	\$303.12	\$0.00



District: Forest Grove Date: February 20, 2019

Summary

Amortized

Specie	MBF	Value	Total	
Douglas - Fir	0	\$0.00	\$0.00	
Western Hemlock / Fir	0	\$0.00	\$0.00	

Unamortized

Specie	MBF	Value	Total	
Douglas - Fir	4,600	\$479.84	\$2,207,264.00	
Western Hemlock / Fir	114	\$303.12	\$34,555.68	

Gross Timber Sale Value

Recovery: \$2,241,819.68

Prepared By: Mark Savage Phone: 503-359-7437

PROJECT COST SUMMARY SHEET

Timber Sale: Hanns Down
Sale Number: FG-341-2019-W00796-01

PROJECT NO. 1: ROCKED ROAD CONSTRUCTION & RECONSTRUCTION

 Road Segment
 Length
 Cost

 A to B
 4+25
 \$4,113.44

 4+25 stations
 0.08 miles

 Total Rock =

 156 cy
 1½" - 0

 226 cy
 Pit-run

 Move-in =
 \$374.15

TOTAL PROJECT NO. 1 COST = \$4,487.59

PROJECT NO. 2: ROAD IMPROVEMENT

	Road Segment	Length	Cost
	B to C	86+80	\$42,054.03
	D to E	5+50	\$3,231.24
	F to G	9+77	\$4,455.40
	H to I	61+40	\$13,143.56
	I to J	28+60	\$1,869.19
		192+07 stations	
		3.64 miles	
Total Rock =			
	2979 cy	1½" - 0	
	2674 cy	Pit-run	
		Move-in =	\$5,889.86
	TOTAL P	ROJECT NO. 2 COST =	\$70,643.28

PROJECT NO. 3: VACATE ROCKED ROAD

Road Segment	Length	Cost
V to B	3+85	\$718.75
	3+85 stations	
	0.07 miles	
	Move-in =	\$65.38
TOTAL PR	ROJECT NO. 3 COST =	\$784.13

TOTAL CREDITS \$75,915.00

	SUMMARY OF CONSTRUCTION COST							
	Timber Sale:		Hanns Dov	wn	S	ale Number:	FG-341-20	19-W00796-01
	Road Segment:		A to B		-	Construction:	4+25	stations
					-	· seek som a landster.	0.08	miles
	122							
PROJECT NO.								
CONSTRUCTIO		_						
Clearing & grubl		0.30		\$1,078.00	•		\$323.40	
Balanced road c		4.25		\$110.00	 ■ C + C + C + C + C + C + C + C + C + C		\$467.50	
Grade, ditch, & i	roll	4.25	sta @	\$36.00	per sta =		\$153.00	-
					TOTAL C	ONSTRUCTI	ON COSTS =	\$943.90
ROCK		_						
		Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost	,
Surfacing	g rock							
Base rock	k	Pit-run	\$3.52	\$2.95	\$1.10	226	\$1,710.82	
Surfacing	rock	1½" - 0	\$1.21	\$6.44	\$1.22	132	\$1,170.84	
Junction		1½" - 0	\$1.21	\$6.44	\$1.22	24	\$212.88	
•					Subtotal =	382	\$3,094.54	
				Totals	All Rock = 1½" - 0 = Pit-run =	156		
						TOTAL RO	CK COSTS =	\$3,094.54
EROSION CON Grass seed & fe		0.15	ac @	\$500.00	per ac =	į .	\$75.00	
					TOTAL EROS	ION CONTR	OL COSTS =	\$75.00
					I	OTAL PROJ	ECT COST =	\$4,113.44

Timber Sale	e:	Hanns D	own	Sale	e Number:	FG-341-2019	9-W00796-0
Road Segmen	t:	B to 0	0	Imp	rovement:	86+80	stations
						1.64	miles
PROJECT NO. 2							
MPROVEMENT							
Clearing & grubbing (scatter)	1.00	ac@	\$1,078.00	per acre =		\$1,078.00	
Clean ditch & end-haul waste material	43.40	sta @	\$60.00	per sta =		\$2,604.00	
Haul waste material	313.35	cy @	\$1.42	per cy =		\$444.96	
Shape and compact waste material	313.35	cy @	\$0.30	per cy =		\$94.01	
Clean culvert inlet & outlet	7	ea@	\$25.00	per ea =		\$175.00	
Construct Settling Ponds	6	ea@	\$25.00	per ea =		\$150.00	
mprove Turnouts	12	ea@	\$33.00	per ea =		\$396.00	
Grade, ditch, & roll	86.80	sta @	\$36.00	per sta =		\$3,124.80	
				TOTAL IMP	ROVEMEN	NT COSTS =	\$8,066.77
CULVERTS						_	
culverts and Bands	- 2						
18" Diameter	60	LF@	\$20.00	per LF =		\$1,200.00	
1arkers & Stakes							
Culvert Markers	9	ea @	\$10.00	per ea =		\$90.00	
				<u>TOTA</u>	L CULVEF	RT COSTS =	\$1,290.00
OCK	_						
		Base		Placement/			
	Rock	Cost	Haul Cost	Processing	Total CY	Rock Cost	
	Size	\$/cy	\$/cy	Cost \$/cy	000000000000000000000000000000000000000		
Subgrade rock							
Bedding and backfill	1½" - 0	\$1.36	\$10.48	\$0.50	48	\$592.32	
				Subtotal =	48	\$592.32	
Surfacing rock							
Surfacing rock (Wildcat Mountain Stockpile)	1½" - 0	\$1.36	\$13.23	\$1.22	868	\$13,723.08	
Surfacing rock	1½" - 0	\$1.21	\$6.29	\$1.22	1,823	\$15,896.56	
Junction	1½" - 0	\$1.21	\$6.29	\$1.22	72	\$627.84	
Turnout	1½" - 0	\$1.21	\$6.29	\$1.22	168	\$1,464.96	
Turrout	51.80 (S.)	*		Subtotal =	2,931	\$31,712.44	
			Totals	All Rock =	2,979		
				1½" - 0 =	2,979		
				<u>T(</u>	OTAL ROC	K COSTS =	\$32,304.76
ROSION CONTROL							
rass seed & fertilizer	0.50	ac @	\$425.00	per ac =		\$212.50	
traw Mulch Acre	0.30	ac @	\$600.00	per ac =		\$180.00	
		(A)		AL EROSION	ONTRO	DL COSTS =	\$392.50
				TOT	AL PRO I	CT COST =	\$42,054.03
				101	AL I NOUL	.01 0001 =	ψτ2,004.0

	Timber Sale:		Hanns D	own	Sal	e Number:	FG-341-201	19-W00796-01
	Road Segment:		D to E		Imp	rovement:	5+50 0.10	stations miles
ROJECT NO. 2								
MPROVEMENT							St. 1895 (Cont.) St. St.	
nprove 70' Landing		1	ea @	\$157.00	per ea =		\$157.00	
rade, ditch, & roll		5.50	sta @	\$36.00	per sta =		\$198.00	
					TOTAL IMF	ROVEME	NT COSTS =	\$355.00
OCK					X			
		Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost	
Surfacing rock								
Surfacing rock		Pit-run	\$3.52	\$1.66	\$1.10	292	\$1,833.76	
Turnaround		Pit-run	\$3.52	\$1.66	\$1.10	16	\$100.48	
70' Landing		Pit-run	\$3.52	\$1.66	\$1.10	150	\$942.00	
					Subtotal =	458	\$2,876.24	

Totals

All Rock =	458
Pit-run =	458

TOTAL ROCK COSTS = \$2,876.24

TOTAL PROJECT COST = \$3,231.24

	Hanns D	own	Sale	e Number:	FG-341-201	9-W00796-01	
	F to C	}	Imp	rovement:	9+77 0.19	stations miles	
						Pro-100-100-100-100-100-100-100-100-100-10	
1	ea@	\$157.00	per ea =		\$157.00		
9.77	sta @	\$36.00	per sta =		\$351.72		
			TOTAL IMP	ROVEME	NT COSTS =	\$508.72	
žą.					_		
Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost		
		· ·		<u> </u>			
Pit-run	\$3.52	\$1.15	\$1.10	518	\$2,988.86		
Pit-run	\$3.52	\$1.15	\$1.10	16	\$92.32		
Pit-run	\$3.52	\$1.15	\$1.10	150	\$865.50		
		eż	Subtotal =	684	\$3,946.68		
		Totals	All Rock =	684			
	Rock Size	F to 0 1 ea @ 9.77 sta @ Rock Size Base Cost \$/cy Pit-run \$3.52 Pit-run \$3.52	F to G 1 ea @ \$157.00 9.77 sta @ \$36.00 Rock Size Cost \$/cy Pit-run \$3.52 \$1.15 Pit-run \$3.52 \$1.15 Pit-run \$3.52 \$1.15	F to G Imp 1 ea @ \$157.00 per ea = 9.77 sta @ \$36.00 per sta =	Total CY Pit-run \$3.52 \$1.15 \$1.10 518 Pit-run \$3.52 \$1.15 \$1.10 16 Pit-run \$3.52 \$1.15 \$1.10 150 Subtotal = 684	Tea @ \$157.00 per ea = \$157.00 9.77 sta @ \$36.00 per sta = \$351.72 TOTAL IMPROVEMENT COSTS = Rock Size	

TOTAL ROCK COSTS = \$3,946.68

Pit-run = 684

TOTAL PROJECT COST = \$4,455.40

Ha	anns Dov	wn	Sal	e Number:	FG-341-2019	-W00796-01
	H to I		lmp	orovement:	61+40	stations
			13.	9. -	1.16	miles
61.40	sta @	\$36.00	per sta =		\$2,210.40	
			TOTAL IN	IPROVEME	ENT COSTS =	\$2,210.40
					1977	
1	ea @	\$10.00	per ea =	() -	\$10.00	
			TO	TAL CULVE	ERT COSTS =	\$10.00
						7
Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost	
		_				
Pit-run	\$3.32	\$2.71	\$1.10	1,532	\$10,923.16	
			Subtotal =	1,532	\$10,923.16	
	61.40 1 Rock Size	61.40 sta @ 1 ea @ Rock Size Base Cost \$/cy	61.40 sta @ \$36.00 1 ea @ \$10.00 Rock Size Cost \$/cy Haul Cost \$/cy	H to I	H to I Improvement:	H to I

Totals

TOTAL ROCK COSTS = \$10,923.16

TOTAL PROJECT COST = \$13,143.56

All Rock = 1,532

1,532

Pit-run =

Sale Number: FG-341-2019-W00796-01 Timber Sale: Hanns Down Improvement: Road Segment: I to J 28+60 stations 0.54 miles PROJECT NO. 2 **IMPROVEMENT** Roadside brushing (heavy) 0.54 mi @ \$1,550.00 per mi = \$839.59 28.60 sta @ \$36.00 per sta = \$1,029.60 Grade, ditch, & roll

TOTAL PROJECT COST = \$1,869.19

Timber Sale:	Timber Sale	X	Sale Number:	FG-341	-2019-W00796-01	
Road Segment:	V to B		Vacating:	3+85 0.07	_stations _miles	
PROJECT NO. 3					7	
Construct tank traps	2	ea @	\$55.00 per ea =	7.10.711	\$110.00	
Construct berm	1	ea@	\$262.50 per ea =		\$262.50	
Rip rocked road surface	3.85	sta @	\$50.00 per sta =		\$192.50	
Grass seed & fertilizer	0.15	ac @	\$425.00 per ac =		\$63.75	
Mulch	0.15	ac @	\$600.00 per ac =		\$90.00	

TOTAL PROJECT COST = \$718.75

MOVE-IN, WITHIN AREA MOVE, & EQUIPMENT CLEANING COSTS

Timber Sale:	Hanns Down	Sale Number:	FG-341-2019-W00796-01
Eq	<u>juipment</u>		<u>Total</u>
Brush Cutter			\$512.00
Grader			\$790.55
Roller (smooth/grid) & Compa	ictor		\$535.60
Excavator (Large) - Equipmer	nt Cleaning		\$1,771.55
Dozer (Large) - Equipment Cl	eaning		\$1,816.13
Dump Trucks			\$770.00
Water Truck			\$133.56
		a*	TOTAL MOVE-IN COSTS = \$6,329.39

Timber Sale:

Hanns Down

Sale Number: FG-341-2019-W00796-01

Quarry Name:

Derby

Pit-run:

1,368 cy (truck measure)

Total truck yardage: 1,368 cy Total in place yardage:

1,053 cy

Swell:

130%

Compaction:

116%

Other Base Cost

Quarry development & overburden removal

\$1,000.00

Clean up quarry

\$500.00 Subtotal =

Per CY =

\$1,500.00 \$1.10

Pit-run Base Cost

Rip rock Load dump truck \$2.10 \$0.80 / cy x / cy x 1,053 cy = 1,368 cy =

\$2,211.30 \$1,094.40

Subtotal =

\$3,305.70

Per CY =

\$2.42

Total =

\$4,805.70

\$3.52 Pit-run Base Cost =

Timber Sale: Hanns Down
Sale Number: FG-341-2019-W00796-01
Quarry Name: Fire Road 1

Pit-run. 1,532 cy (truck measure)

Total truck yardage: 1,532 cy
Total in place yardage: 1,179 cy

Swell: ____130%

Move-in & Other Base Cost

Quarry development & overburden removal
Within area move in excavator
Clean up quarry

Subtotal = \$1,373.33

Per CY = \$0.90

Pit-run Base Cost

\$2,475.90 \$2.10 / cy x 1,179 cy = Rip rock 1,532 \$1,225.60 / cy x cy = Load dump truck \$0.80 Subtotal = \$3,701.50Per CY = \$2.42 Total = \$5,074.83

Pit-run Base Cost = \$3.32

Timber Sale: Hanns Down
Sale Number: FG-341-2019-W00796-01
Quarry Name: Wildcat Mountain Stockpile

1 1/2-0 <u>868 cy</u> (truck measure)

Total truck yardage: 868 cy

Move-in & Other Base Cost

Move in loader \$479.47
Subtotal = \$479.47
Per CY = \$0.56

1-1/2 Base Cost
Load dump truck \$0.80 / cy x 868 cy = \$694.40
Subtotal = \$694.40

Per CY = \$0.80

Total = \$1,173.87

1-1/2 Base Cost = **\$1.36**

Timber Sale: Hanns Down FG-341-2019-W00796-01 Sale Number: Rock Creek Ridge Stockpile Quarry Name: 1 1/2-0 2,267 cy (truck measure) Total truck yardage: 2,267 cy Move-in & Other Base Cost \$908.76 Move-in loader Subtotal = \$908.76 Per CY = \$0.41 1-1/2 Base Cost \$0.80 2,267 \$1,813.60 Load dump truck / cy x cy = Subtotal = \$1,813.60\$0.80 Per CY = \$2,722.36 Total =

\$1.21

1-1/2 Base Cost =

CRUISE REPORT Hanns Down Contract # FG-341-2019-W00796-01

1. LOCATION:

Portions of Sections 24 and 25, T3N, R6W, W.M., Tillamook County, Oregon.

2. CRUISE DESIGN:

Pre-cruise evaluation indicated that the stand's average DBH is approximately 23 inches and the Coefficient of Variation is about 50%. For sales of this size and approximate value, ODF cruise standards require a Sampling Error of 9% at a 68% confidence level, and a minimum sample size of 100 graded trees. Statistical analysis indicated that 30 variable radius plots utilizing a 40 BAF prism would produce an adequate sample size for the timber sale as a whole.

3. SAMPLING METHOD:

The Timber Sale Area was cruised in November of 2018. Area 1 was sampled with 30 plots laid out on a 5 chain x 6 chain grid. Plots falling on or near existing roads or no-harvest areas were offset 1 chain. All plot trees were measured and graded.

4. CRUISE RESULTS:

143 trees were measured and graded producing a cumulative Sampling Error of 5.8% on the Basal Area and 7.5% on the Board Foot Volume.

5. TREE MEASUREMENT AND GRADING:

All sample trees were measured and graded following Columbia River Log Scale grade rules and favored 40 foot segments.

- a) **Height Standards:** Total tree heights were measured to the nearest foot. Bole heights were calculated to a six inch top.
- b) **Diameter Standards:** Diameters were measured outside bark at breast height to the nearest inch.
- c) Form Factors: Form factors were measured for each grade tree using a form point of 16 feet.

6. DATA PROCESSING:

- a) **Volumes and Statistics:** Cruise estimates and sampling statistics, were derived from Super Ace 2008 cruise software.
- b) **Deductions:** Four percent of the volume was subtracted from the computed volumes to account for hidden defect and breakage.

7. CRUISERS:

The sale was cruised by ODF cruisers Adrian Torres and Mark Savage.

Prepared by: 2/20/19
Mark Savage Date

Reviewed by: Cil Marcy 2-20-19

TC PSTA	ATS		PAGE DATE	1 2/11/201							
TWP	RGE	SC TRA	CT	TYPE		A	CRES	PLOTS	TREES	CuFt	BdFt
03N (06	25 00A1		00MC			101.00	30	143	S	W
					TREES		ESTIMATED TOTAL		PERCENT SAMPLE		24
		PLOTS	TREES		PER PLOT		TREES		TREES		
TOTAL	,	30	143		4.8						
CRUIS DBH C REFOR COUNT BLANK 100 %	OUNT REST F	30	143		4.8		4,652		3.1		
				STA	ND SUMN	MARY					
		SAMPLE	TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET
-		TREES	/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC
DOUG		136		28.1	155	34.2	181.3	48,259	47,292	9,616	9,616
WHEM		4		21.8	133	1.1	5.3	1,218	1,173	262	262
BL MA	100-100-100-1	1		14.0	60 125	0.4	1.3	87 250	87 250	30	30
NOB FI WR CE		1	.4 .4	26.0 26.0	135 137	0.3	1.3 1.3	250 221	250 221	60 60	60 60
TOTAL		143		27.5	151	36.3	1.3	50,035	49,022	10,028	10,028
SD:	58.1 1.0	COEI VAR 44,3	% S.E.%	I	SAMPL OW	AVG	HIGH	#	OF TREES	REQ. 10	INF. POF
DOUG WHEM BL MA NOB FI WR CE	LOCK PLE R DAR	40.€	23.2		1,252 488	1,302 635	1,351 782		0.6		
TOTAL		46.4			<u> </u>	1,265	1,314		86	22	1
CL 6		COEI			SAMPLI			#	OF TREES		INF. POP
SD: DOUG		VAR. 38.0		L	OW 253	AVG 262	HIGH 270		5	10	1
WHEM BL MAI NOB FI WR CE	LOCK PLE R	38.1			110	140	171				
TOTAL		39.9	3.3		247	255	264		64	16	
CL 6	8.1	COE	F		TREES/A	ACRE		#	OF PLOTS	REO.	INF. POP.
	1.0	VAR.		L		AVG	HIGH		5	10	1
DOUG		47.0			38	42	46		***		-
WHEM		272.1	50.5		1	2	3				
BL MAI		547.7			•	1	3				
NOB FI		547.7				0	1				
WR CE		547.7			70	0	1	t	7.1	10	
TOTAL		41.3	**************************************		43	46	50		71	18	
CL 6		COEF			BASAL			#	OF PLOTS I		INF. POP.
SD:		VAR.		L		AVG	HIGH		5	10	1
DOUGI		35.6			169	181	193				
WHEMI		259.3			3	5	8				
BL MAI		547.7 547.7				1	3				
WR CEI		547.7 547.7				1	3				
TOTAL		31.5	5.8		180	191	202		41	10	
IOIAL	•	31.3	5.0		100	171	202		71	10	

TC PSTATS

PROJECT STATISTICS PROJECT HANNS1

PAGE 2

DATE 2/11/2019

TWP	RGE	SC	TRACT	TY	PE	A	CRES	PLOTS	TREES	CuFt	BdFt
03N	06	25	00A1	00N	1C		101.00	30	143	S	W
CL	68.1		COEFF		NET	BF/ACRE			# OF PLOTS I	REQ.	INF. POP.
SD:	1.0		VAR,%	S.E.%	LOW	AVG	HIGH		5	10	15
DOU	G FIR		41.8	7.8	43,618	47,292	50,965				
WHE	MLOCK		260.9	48.4	605	1,173	1,741				
BL M	IAPLE		547.7	101.7		87	176				
NOB	FIR		547.7	101.7		250	503				
WR C	CEDAR		547.7	101.7		221	445				
TOT	AL		40.2	7.5	45,361	49,022	52,684		67	17	7
CL	68.1		COEFF		NET	CUFT FT/	ACRE		# OF PLOTS I	REQ.	INF. POP.
SD:	1.0		VAR.%	S.E.%	LOW	AVG	HIGH		5	10	15
DOU	G FIR		38.7	7.2	8,925	9,616	10,307				
WHE	MLOCK		259.7	48.2	136	262	388				
BL M	IAPLE		547.7	101.7		30	60				
NOB	FIR		547.7	101.7		60	121				
WR C	CEDAR		547.7	101.7		60	121				
TOT	AL		36.3	6.7	9,353	10,028	10,703		54	14	6

Species, Sort Grade - Board Foot Volumes (Project) TC PSPCSTGR Project: HANNS1 Page 1 T03N R06W S25 Ty00MC 101.00 Date 2/11/2019 Acres 101.00 2:42:30PM Time Percent of Net Board Foot Volume Average Log Logs Bd. Ft. per Acre Ln Dia Bd CF/ S So Gr Net Total Log Scale Dia. Log Length Per BdFt T rt ad Def% Gross Net Spp Net MBF 4-5 6-11 12-16 17+ Ft In Lf /Acre 12-20 21-30 31-35 36-99 14 19 0.00 .8 DF CU 4,290 0 40 17 512 2.49 DF 2M 89 2.2 43,432 42,471 29 71 0 99 83.0 9 4,228 427 100 0 4 1 94 38 9 113 0.84 37.4 DF 3M .1 4,234 593 60 100 62 38 18 7 26 0.43 22.8 2 593 DF 4M 4,776 0 98 36 14 329 1.87 **DF** Totals 96 2.0 48,259 47,292 10 26 64 1 1 143.9 9 100 40 7 100 87 87 100 70 0.59 1.2 BM CR 9 100 100 40 7 70 0.59 BM Totals 0 87 87 1.2 871 100 40 15 345 1.82 2.4 WH 2M 70 5.2 825 83 53 47 305 305 31 100 100 40 10 148 0.88 2.1 WH 3M 26 19 6 21 0.38 100 65 35 2.1 WH 4M 4 43 43 4 WH Totals 2 3.7 1,218 118 30 37 33 2 1 33 11 180 1.20 6.5 1,173 NF 2M 95 239 239 24 30 70 100 40 15 330 1.91 .7 100 100 28 6 NF 4M 5 11 30 0.49 .4 11 1 1 250 4 29 67 4 96 36 12 230 1.54 1.1 NF Totals 250 25 RC 65 145 145 15 100 100 40 16 400 2.84 .4 2M RC 3M 30 65 65 7 100 100 40 11 180 1.03 .4 5 100 100 28 6 30 0.43 .4 RC 4M 11 11 1 0 5 RC Totals 221 221 22 34 66 95 36 11 203 1.54 1.1 2.0 50,035 49,022 4,951 26 63 0 98 36 13 319 1.82 153.8 Totals 11 1 1

TC **Stand Table Summary** Page 1 PSTNDSUM 2/11/2019 Date: T03N R06W S25 Ty00MC 101.00 Project HANNS1 Time: 2:42:31PM Acres 101.00 Grown Year:

Solution Total Process Total Process Total Process Process Last Process Note Process		ī												1		
DF 18 1 87 88 755 13.3 1.51 279 10.50 120 42 188 121 43 16 DF 20 2 88 13 1.222 2.67 3.06 34.2 146 106 131 46 17 DF 21 1 88 95 5.54 1.33 1.11 41.1 150.0 1.30 46 166 131 46 17 DF 22 5 89 149 2.525 6.67 7.58 43.1 197.3 327 1,495 941 330 151 DF 26 7 88 153 2.2971 93.3 934 120.0 213 48 2271 1,399 491 229 DF 25 4 87 158 1,565 5.33 5.48 521 2252 85 228 828 <t>142 318 84 1</t>	Appen D.C.				Av	200 and and and an			Net	Net	127	Cu.Ft.	Bd.Ft.	Tons		MBF
Decoration Process P	DF	16	1	88	86	.955	1.33	1.91	21.8	90.0	1.19	42	172	120	42	17
Decoration	DF	18	1	87	88	.755	1.33	1.51	27.9	105.0	1.20	42	158	121	43	16
DF	DF	20	2	88	113	1.222	2.67	3.06	34.2	146.0	2.98	104	446	300	105	45
Decoration	DF	21	1	88	95	.554	1.33	1.11	41.1	150.0	1.30	46	166	131	46	17
DF	DF	22	5	89	149	2.525	6.67	7.58	43.1	197.3	9.31	327	1,495	941	330	151
DF	DF	23		87	156	2.773	8.00	9.24	44.9	205.0	11.82	415	1,895	120802000000	419	191
Dec-life Process Pro	DF	24		88	153	STATES OF		9.34	52.0		11/6/2000/2005	486				
DF	DF	25							1000 mg 1 AV		0.000-00					
DF	DF	26		88	155		12.00	11.57	55.0	271.9	18.13				642	318
DF 29 12 86 160 3.488 16.00 12.50 68.4 336.5 24.35 854 4,206 2,460 863 425 DF 30 11 85 167 2,988 14.67 11.14 73.2 366.8 23.22 815 4,085 2,345 823 413 DF 31 8 84 168 20.35 10.67 7.38 79.7 386.2 16.75 588 2,849 1,992 594 288 DF 32 6 86 169 1.347 8.00 4.94 91.1 469.1 12.82 450 2,317 1.295 454 2.34 DF 36 16 18 1.99 1.886 13.33 6.60 105.0 505.1 19.76 694 3,335 1,996 700 337 DF 36 10 81 189 1.83 6.60 105.0 505.1 19.76	DF										1000000000			l		
DF 30 11 85 167 2.988 14.67 11.14 73.2 366.8 23.22 815 4,085 2,345 823 413 DF 31 8 84 168 2.035 10.67 73.8 79.7 386.2 16.75 588 2,849 1,692 594 288 DF 32 6 86 171 1432 80.0 5.49 82.8 422.5 12.95 454 2,335 1,308 459 236 DF 33 6 86 169 1.347 8.00 4.94 91.1 469.1 12.82 450 2,317 1,295 454 234 DF 36 10 81 159 1.886 13.33 6.60 105.0 505.1 19.76 694 3,335 1,996 700 337 DF 36 10 81 159 1.886 13.33 71 113.1 657.5	DF	A STATE OF THE STA		87	162	***************************************			500000000000000000000000000000000000000				210481-201114212		- ALLOOS ALLOS	
DF DF DF DF DF DF SI	DF	29	12	86	160	3.488	16.00	12.50	68.4	336.5	24.35	854	4,206	2,460	863	425
DF DF DF DF S3 6	DF								Mass Place				3/A-2-2-2			
DF 33 6 86 169 1.347 8.00 4.94 91.1 469.1 12.82 450 2,317 1,295 454 234 DF 34 3 82 157 .634 4,00 2.33 89.2 431.8 5.92 208 1,004 597 210 101 DF 35 8 82 164 1.596 10.67 5.79 98.2 489.0 16.20 569 2,830 1,636 574 286 DF 36 10 81 159 1.886 13.33 6.60 105.0 505.1 19.76 694 3,335 1,996 700 337 DF 37 1 89 180 1.79 1.33 .61 104.7 532.5 2.00 71 361 204 72 36 DF 38 1 80 172 1.29 129.1 732.5 4.73 166 942 <td>DF</td> <td></td> <td></td> <td>84</td> <td>168</td> <td></td> <td></td> <td></td> <td>2000000 100</td> <td>10.000.000.000.000.000.000.000.000.000.</td> <td>H1000000000000000000000000000000000000</td> <td></td> <td>- Times</td> <td></td> <td></td> <td>288</td>	DF			84	168				2000000 100	10.000.000.000.000.000.000.000.000.000.	H1000000000000000000000000000000000000		- Times			288
DF 34 3 82 157 .634 4.00 2.33 89.2 431.8 5.92 208 1,004 597 210 101 DF 35 8 82 164 1.596 10.67 5.79 98.2 489.0 16.20 569 2,830 1,636 574 286 DF 36 10 81 159 1.886 13.33 6.60 105.0 505.1 19.76 694 3,335 1,996 700 337 DF 37 1. 89 180 1.79 1.33 .71 113.1 657.5 2.30 81 470 232 82 47 DF 38 1 80 172 .169 1.33 .71 113.1 657.5 2.30 81 470 232 82 47 DF 39 2 85 188 321 2.67 1.29 129.1 732.5 4.73	DF	1.00.000.0		86	171	1.432			82.8		100000000000000000000000000000000000000					
DF 35 8 82 164 1.596 10.67 5.79 98.2 489.0 16.20 569 2,830 1,636 574 286 DF 36 10 81 159 1.886 13.33 6.60 105.0 505.1 19.76 694 3,335 1,996 700 337 DF 37 1 89 180 .179 1.33 .68 104.7 532.5 2.02 71 361 204 72 36 DF 39 2 85 188 3.21 2.67 1.29 129.1 732.5 2.02 71 361 204 72 36 DF 39 2 85 188 3.21 2.67 1.29 129.1 732.5 4.73 166 942 478 168 95 DF 40 4 84 175 .611 5.33 2.29 131.8 703.3 8.61	DF	***********				CONTRACTOR CO. C.			0.000.000	2000	400000000000000000000000000000000000000			****************		
DF 36 10 81 159 1.886 13.33 6.60 105.0 505.1 19.76 694 3,335 1,996 700 337 DF 37 1 89 180 .179 1.33 .71 113.1 657.5 2.30 81 470 232 82 47 DF 38 1 80 172 .169 1.33 .68 104.7 532.5 2.02 71 361 204 72 36 DF 39 2 85 188 .321 2.67 1.29 129.1 732.5 4.73 166 942 478 168 95 DF 40 4 84 175 .611 5.33 2.29 131.8 703.3 8.61 302 1,612 870 305 163 DF 42 1 81 189 1.33 1.43.11 67.2 330.5 274.00 9,616	DF	34		82	157	V48048 10		2.33	C2022 (RSIII)	(10/2000)	5.92	208	1,004	7370.73	210	101
DF 37 1 89 180 .179 1.33 .71 113.1 657.5 2.30 81 470 232 82 47 DF 38 1 80 172 .169 1.33 .68 104.7 532.5 2.02 71 361 204 72 36 DF 39 2 85 188 .321 2.67 1.29 129.1 732.5 4.73 166 942 478 168 95 DF 40 4 84 175 .611 5.33 2.29 131.8 703.3 8.61 302 1,612 870 305 163 DF 40 4 84 175 .611 5.33 2.29 131.8 703.3 8.61 302 1,612 870 305 163 DF 40 18 18 19 125 .755 1.33 143.11 67.2 330.5 274.	DF	35						5.79	60 (86-60)	100000000000	6000000000		2,830	1240April 18		
DF 38 1 80 172 .169 1.33 .68 104.7 532.5 2.02 71 361 204 72 36 DF 39 2 85 188 .321 2.67 1.29 129.1 732.5 4.73 166 942 478 168 95 DF 40 4 84 175 .611 5.33 2.29 131.8 703.3 8.61 302 1,612 870 305 163 DF 40 4 84 175 .611 5.33 2.29 131.8 703.3 8.61 302 1,612 870 305 163 DF 42 1 81 18 1.39 1.33 1.31 67.2 330.5 274.0 9,616 47,292 27,680 9,712 4,776 WH 18 1 93 125 .755 1.33 1.52 43.0 203.3 2.09	DF	100000				0-000000			9-5-6555		10.000,000,000		T.,	St.,,,,,,,,		
DF 39 2 85 188 .321 2.67 1.29 129.1 732.5 4.73 166 942 478 168 95 DF 40 4 84 175 .611 5.33 2.29 131.8 703.3 8.61 302 1,612 870 305 163 DF 42 1 81 178 .139 1.33 .55 133.0 710.0 2.10 74 394 212 74 40 DF Totals 136 86 155 42.032 181.33 143.11 67.2 330.5 274.06 9,616 47,922 27,680 9,712 4,776 WH 18 1 93 125 .755 1.33 1.52 43.0 203.3 2.09 65 308 211 66 31 WH 22 1 90 134 .505 1.33 1.39 45.9 220.0 2.03	DF								0.000.000.000.000	100000000000000000000000000000000000000	200000000		20000000			
DF DF DF DF 40 4 84 175 .611 5.33 2.29 131.8 703.3 8.61 302 1,612 870 305 163 DF 42 1 81 178 .139 1.33 .55 133.0 710.0 2.10 74 394 212 74 40 DF Totals 136 86 155 42.032 181.33 143.11 67.2 330.5 274.06 9,616 47,292 27,680 9,712 4,776 WH 18 1 93 125 .755 1.33 2.26 27.4 106.7 1.99 62 241 201 63 24 WH 22 1 90 134 .505 1.33 1.52 43.0 203.3 2.09 65 308 211 66 31 WH 23 1 91 122 .462 1.33 1.34 52.9 237.5 <t< td=""><td>DF</td><td>1.1010000</td><td></td><td></td><td></td><td></td><td></td><td></td><td>20000000000000000000000000000000000000</td><td></td><td></td><td></td><td>000000000000000000000000000000000000000</td><td>17.75,400g-17.11</td><td></td><td></td></t<>	DF	1.1010000							20000000000000000000000000000000000000				000000000000000000000000000000000000000	17.75,400g-17.11		
DF 42 1 81 178 .139 1.33 .55 133.0 710.0 2.10 74 394 212 74 40 DF Totals 136 86 155 42.032 181.33 143.11 67.2 330.5 274.06 9,616 47,292 27,680 9,712 4,776 WH 18 1 93 125 .755 1.33 2.26 27.4 106.7 1.99 62 241 201 63 24 WH 22 1 90 134 .505 1.33 1.52 43.0 203.3 2.09 65 308 211 66 31 WH 23 1 91 122 .462 1.33 1.34 52.9 237.5 2.27 71 319 229 72 32 WH 70tals 4 90 133 2.057 5.33 6.51 40.3 180.3 8.38 <td>DF</td> <td>10001000</td> <td></td> <td></td> <td></td> <td>20434604000</td> <td></td> <td></td> <td>0.0000000000000000000000000000000000000</td> <td>099-00-250-000-900-0</td> <td>0.007.000000</td> <td></td> <td>50 (00000)</td> <td>\$10001000</td> <td></td> <td></td>	DF	10001000				20434604000			0.0000000000000000000000000000000000000	099-00-250-000-900-0	0.007.000000		50 (00000)	\$10001000		
DF Totals 136 86 155 42.032 181.33 143.11 67.2 330.5 274.06 9,616 47,292 27,680 9,712 4,776 WH 18 1 93 125 .755 1.33 2.26 27.4 106.7 1.99 62 241 201 63 24 WH 22 1 90 134 .505 1.33 1.52 43.0 203.3 2.09 65 308 211 66 31 WH 23 1 91 122 .462 1.33 1.39 45.9 220.0 2.03 64 305 206 64 31 WH 27 1 80 163 .335 1.33 1.34 52.9 237.5 2.27 71 319 229 72 32 WH Totals 4 90 133 2.057 5.33 6.51 40.3 180.3 8.38 262 1,173 847 265 118 NF 26 1 84 135 .362 1.33 1.08 55.4 230.0 1.44 60 250 146 61 25 RC 26 1 76 137 .362 1.33 1.08 55.5 203.3 1.42 60 221 143 61 22 BM 14 1 87 60 1.247 1.33 1.25 23.8 70.0 .79 30 87 79 30 9 BM Totals 1 87 60 1.247 1.33 1.25 23.8 70.0 .79 30 87 79 30 9	DF	177990				1 1000000000000000000000000000000000000			0.0000000000000000000000000000000000000	22-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2	30/12/13/00/00		100000000000000000000000000000000000000	20000000		
WH 18 1 93 125 .755 1.33 2.26 27.4 106.7 1.99 62 241 201 63 24 WH 22 1 90 134 .505 1.33 1.52 43.0 203.3 2.09 65 308 211 66 31 WH 23 1 91 122 .462 1.33 1.39 45.9 220.0 2.03 64 305 206 64 31 WH 27 1 80 163 .335 1.33 1.34 52.9 237.5 2.27 71 319 229 72 32 WH Totals 4 90 133 2.057 5.33 6.51 40.3 180.3 8.38 262 1,173 847 265 118 NF Totals 1 84 135 .362 1.33 1.08 55.4 230.0 1.44 60 <td>DF</td> <td>42</td> <td>1</td> <td>81</td> <td>178</td> <td>.139</td> <td>1.33</td> <td>.55</td> <td>133.0</td> <td>710.0</td> <td>2.10</td> <td>74</td> <td>394</td> <td>212</td> <td>74</td> <td>40</td>	DF	42	1	81	178	.139	1.33	.55	133.0	710.0	2.10	74	394	212	74	40
WH 22 1 90 134 .505 1.33 1.52 43.0 203.3 2.09 65 308 211 66 31 WH 23 1 91 122 .462 1.33 1.39 45.9 220.0 2.03 64 305 206 64 31 WH 27 1 80 163 .335 1.33 1.34 52.9 237.5 2.27 71 319 229 72 32 WH Totals 4 90 133 2.057 5.33 6.51 40.3 180.3 8.38 262 1,173 847 265 118 NF 26 1 84 135 .362 1.33 1.08 55.4 230.0 1.44 60 250 146 61 25 RC 26 1 76 137 .362 1.33 1.08 55.5 203.3 1.42 60	DF	Totals	136	86	155	42.032	181.33	143.11	67.2	330.5	274.06	9,616	47,292	27,680	9,712	4,776
WH 23 1 91 122 .462 1.33 1.39 45.9 220.0 2.03 64 305 206 64 31 WH 27 1 80 163 .335 1.33 1.34 52.9 237.5 2.27 71 319 229 72 32 WH Totals 4 90 133 2.057 5.33 6.51 40.3 180.3 8.38 262 1,173 847 265 118 NF 26 1 84 135 .362 1.33 1.08 55.4 230.0 1.44 60 250 146 61 25 RC 26 1 76 137 .362 1.33 1.08 55.5 203.3 1.42 60 221 143 61 22 RC Totals 1 76 137 .362 1.33 1.08 55.5 203.3 1.42 60 <td>WH</td> <td>18</td> <td>1</td> <td>93</td> <td>125</td> <td>.755</td> <td>1.33</td> <td>2.26</td> <td>27.4</td> <td>106.7</td> <td>1.99</td> <td>62</td> <td>241</td> <td>201</td> <td>63</td> <td>24</td>	WH	18	1	93	125	.755	1.33	2.26	27.4	106.7	1.99	62	241	201	63	24
WH 27 1 80 163 .335 1.33 1.34 52.9 237.5 2.27 71 319 229 72 32 WH Totals 4 90 133 2.057 5.33 6.51 40.3 180.3 8.38 262 1,173 847 265 118 NF 26 1 84 135 .362 1.33 1.08 55.4 230.0 1.44 60 250 146 61 25 NF Totals 1 84 135 .362 1.33 1.08 55.4 230.0 1.44 60 250 146 61 25 RC 26 1 76 137 .362 1.33 1.08 55.5 203.3 1.42 60 221 143 61 22 RC Totals 1 76 137 .362 1.33 1.08 55.5 203.3 1.42 60	WH	22	1	90	134	.505	1.33	1.52	43.0	203.3	2.09	65	308	211	66	31
WH Totals 4 90 133 2.057 5.33 6.51 40.3 180.3 8.38 262 1,173 847 265 118 NF 26 1 84 135 .362 1.33 1.08 55.4 230.0 1.44 60 250 146 61 25 NF Totals 1 84 135 .362 1.33 1.08 55.4 230.0 1.44 60 250 146 61 25 RC 26 1 76 137 .362 1.33 1.08 55.5 203.3 1.42 60 221 143 61 22 RC Totals 1 76 137 .362 1.33 1.08 55.5 203.3 1.42 60 221 143 61 22 BM 14 1 87 60 1.247 1.33 1.25 23.8 70.0 .79 30 </td <td>WH</td> <td>23</td> <td>1</td> <td>91</td> <td>122</td> <td>.462</td> <td>1.33</td> <td>1.39</td> <td>45.9</td> <td>220.0</td> <td>2.03</td> <td>64</td> <td>305</td> <td>206</td> <td>64</td> <td>31</td>	WH	23	1	91	122	.462	1.33	1.39	45.9	220.0	2.03	64	305	206	64	31
NF 26 1 84 135	WH	27	1	80	163	.335	1.33	1.34	52.9	237.5	2.27	71	319	229	72	32
NF Totals 1 84 135	WH	Totals	4	90	133	2.057	5.33	6.51	40.3	180.3	8.38	262	1,173	847	265	118
RC 26 1 76 137 .362 1.33 1.08 55.5 203.3 1.42 60 221 143 61 22 RC Totals 1 76 137 .362 1.33 1.08 55.5 203.3 1.42 60 221 143 61 22 BM 14 1 87 60 1.247 1.33 1.25 23.8 70.0 .79 30 87 79 30 9 BM Totals 1 87 60 1.247 1.33 1.25 23.8 70.0 .79 30 87 79 30 9	NF	26	1	84	135	.362	1.33	1.08	55.4	230.0	1.44	60	250	146	61	25
RC Totals 1 76 137 .362 1.33 1.08 55.5 203.3 1.42 60 221 143 61 22 BM 14 1 87 60 1.247 1.33 1.25 23.8 70.0 .79 30 87 79 30 9 BM Totals 1 87 60 1.247 1.33 1.25 23.8 70.0 .79 30 87 79 30 9	NF	Totals	1	84	135	.362	1.33	1.08	55.4	230.0	1.44	60	250	146	61	25
BM 14 1 87 60 1.247 1.33 1.25 23.8 70.0 .79 30 87 79 30 9 BM Totals 1 87 60 1.247 1.33 1.25 23.8 70.0 .79 30 87 79 30 9	RC	26	1	76	137	.362	1.33	1.08	55.5	203.3	1.42	60	221	143	61	22
BM Totals 1 87 60 1.247 1.33 1.25 23.8 70.0 .79 30 87 79 30 9	RC	Totals	1	76	137	.362	1.33	1.08	55.5	203.3	1.42	60	221	143	61	22
	ВМ	14	1	87	60	1.247	1.33	1.25	23.8	70.0	.79	30	87	79	30	9
Totals 143 86 151 46.059 190.67 153.03 65.5 320.3 286.09 10,028 49,022 28,895 10,128 4,951	ВМ	Totals	1	87	60	1.247	1.33	1.25	23.8	70.0	.79	30	87	79	30	9
	Totals		143	86	151	46.059	190.67	153.03	65.5	320.3	286.09	10,028	49,022	28,895	10,128	4,951

	•														Tim	e 2:	42:30P	M
s	~~~			Def	Net	%			Net Vol	ume by	Scaling	Dian	neter in	Inches				
Spp Т	rt de	Len	MBF	%	MBF	Spc	2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
DF	2M	20	13		13	.3									13			
DF	2M	32	19	34.4	13	.3									13			
DF	2M	40	4,354	2.1	4,264	89.3						299	432	1489	1467	550	27	
DF	3M	16	1		1	.0					1							
OF	3M	22	7		7	.2				5	2							
OF	3M	24	3		3	.1				3								
OF	3M	26	6		6	.1				6					l			
OF	3M	28	2		2	.0			1	1								
OF	3M	32	4		4	.1			4									
OF	3M	34	2		2	.0			2						ļ			
OF	3M	36	10		10	.2			3	7								
OF	3M	38	12		12	.3			11	2								
OF	3M	40	380		379	7.9			39	110	230							
OF	4M	12	6		6	.1			5	0								
OF	4M	14	6		6	.1			4	2								
)F	4M	16	13		13	.3			11	2						42		
OF	4M	18	8		8	.2			4	4								
)F	4M	20	5		5	.1			3	2								
OF	4M	22	11		11	.2			8	3								
)F	4M	24	7		7	.1			5	2								
OF	4M	26	5		5	.1			5									
)F	Totals		4,874	2.0	4,776	96.5			105	149	233	299	432	1489	1493	550	27	
ВМ	CR	40	9		9	100.0			9									
ВМ	Totals	;	9		9	.2			9									
VH	2M	40	88	5.2	83	70.4						14	10	60				
VH	3M	40	31		31	26.0				13	18							
VH	4M	12	0		0	.3			0									
VH	4M	16	2		2	1.3			2									
VH	4M	20	1		1	.8			1									
VH	4M	28	2		2	1.3			2									
VH	Totals		123	3.7	118	2.4			4	13	18	14	10	60				
IF	2M	40	24		24	95.7						7		17				
lF	4M	28	1		1	4.3			1									
IF	Totals		25		25	.5			1			7		17				
																		_

TC PLO	00	GSTVB					Log	Stock	Table	e - MB	F								
T03N	S So Gr Log Gross Def					Proj Acre		HA	NNS1 101	.00					Page Date Time	2/1	2 1/2019 42:30F		
s	;	So Gr	Log	Gross	Def	Net	%]	Net Volu	ıme by	Scalin	g Dian	eter in	Inches				
Spp T	r				%	MBF	Spc	2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
RC		2M	40	15		15	65.6								15				
RC	Ī	3M	1 40	7		7	29.5					7							
RC	ľ	4M	28	1		1	4.9			1									
RC	İ	Totals	s	22		22	.4			1		7			15				
Total		All Speci	es	5,053	2.0	4,951	100.0			120	162	258	320	442	1580	1493	550	27	

TIMBER SALE SUMMARY Hanns Down Contract # FG-341-2019-W00796-01

- 1. <u>Location</u>: Portions of Sections 24 and 25, T3N, R6W, W.M., Tillamook County, Oregon.
- 2. <u>Type of Sale</u>: This timber sale is comprised of two areas. Area 1 is a 101 acre Modified Clearcut of a 90 year old stand of Douglas fir. Area 2 is less than one acre of Right-of-Way Timber. The timber will be sold on a recovery basis at a sealed bid auction.
- 3. Revenue Distribution: 100% BOF; Tillamook County, Tax Code 56-1.
- **4.** <u>Sale Acreage</u>: Acres are net of stream buffers and road prisms. Acreage was determined using ESRI ArcMap GIS software.
- **5.** <u>Cruise</u>: The timber sale was cruised by ODF Cruisers in November of 2018. For more information see Cruise Report.
- **6.** <u>Timber Description</u>: The Timber Sale Area consists of a well-stocked 90 year old Douglas-fir stand with minor amounts of western hemlock, noble fir, and red alder. For Area 1, the stand has an average of 191 ft² of basal area for all species, an average Douglas-fir DBH of 28 inches, and an estimated average net Douglas-fir volume of approximately 45.4 MBF per acre. For Area 2, the Right-of-Way Timber is similar to the timber in Area 1.
- 7. <u>Topography and Logging Method</u>: Slopes within the sale areas range from 5% to 80% and are generally southern in aspect. Elevations range from 1,340 to 1,900 feet. The following table summarizes the estimated maximum and average horizontal cable corridor length, the estimated maximum and average tractor skid trail length, and the percent harvest method for each Sale Area.

	Tractor			Cable		
Sale Area	Average	Maximum	%	Average	Maximum	%
Area 1	200	500	51	450	750	49
Area 2	100	200	100	N/A	N/A	N/A

8. <u>Access</u>: All access to the Timber Sale Area is on surfaced all-weather roads. From Forest Grove, travel north on Highway 8 to its junction with Highway 6. Turn left and travel west approximately 3.5 miles to Timber Road. Turn right, proceed north on Timber Road approximately 6.5 miles and turn onto Cochran Road. Continue west on Cochran Road for 4.4 miles to Derby Creek Road. Turn right onto Derby Creek Road and proceed 0.8 miles to enter the eastern portion of Area 1.

9. Projects:

Project No. 1: Rocked road construction\$4,487.59Project No. 2: Road improvement\$70,643.28Project No. 3: Vacate rocked road\$784.13

Total Credit for all Projects (rounded) \$75,915.00

VOLUME SUMMARY

Volumes in MBF Hanns Down FG-341-2019-W00796-01

February 2019

AREA 1: MC (101 ACRES)

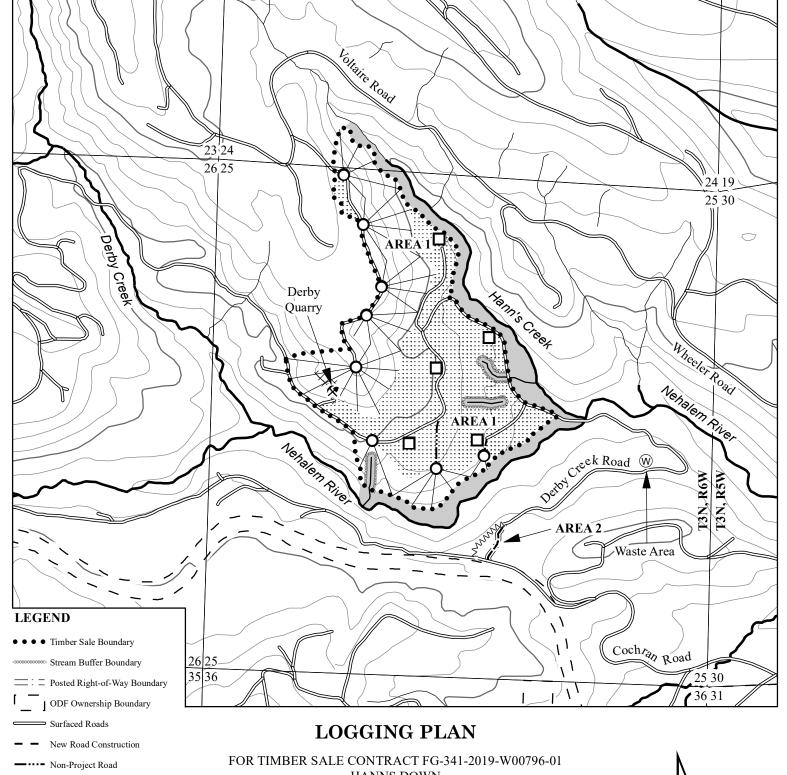
SPECIES		2 SAW	3 SAW	4 SAW	TOTAL
	Cruise Volume	4,290	427	60	4,777
Douglas-fir	Hidden D&B (4%)	(172)	(17)	(2)	(191)
	NET TOTAL	4,118	410	58	4,586
	% of Total	90	9	1	
	Cruise Volume	83	31	4	118
Western Hemlock	Hidden D&B (4%)	(3)	(1)	(0)	(4)
	NET TOTAL	80	30	4	114
	% of Total	70	26	4	

AREA 2: R/W (<1 ACRE)

SPECIES		2 SAW	3 SAW	4 SAW	TOTAL
Douglas-fir	Cruise Volume	13	2	0	15
	Hidden D&B (4%)	(1)	(0)	(0)	(1)
	NET TOTAL	12	2	0	14
	% of Total	86	14	0	

SALE TOTAL

SPECIES	2 SAW	3 SAW	4 SAW	TOTAL
Douglas-fir	4,130	412	58	4,600
Western Hemlock	80	30	4	114
TOTAL	4,210	442	62	4,714



OR TIMBER SALE CONTRACT FG-341-2019-W00796-01 HANNS DOWN PORTIONS OF SECTIONS 24 & 25, T3N, R6W, W.M., TILLAMOOK COUNTY, OREGON

> Forest Grove District GIS February, 2019

February, 2019

This product is for informational use and may not be suitable for legal, engineering, or surveying purposes.

1:12,000 1 inch = 1000 feet 500 1,000 1,500 2,000



APPROXIMATE NET ACRES			
T	RACTOR	CABLE	
AREA 1 AREA 2	53 <1	48 0	
TOTAL	54	48	

Tractor Landing
Cable Yarding Area
Tractor Yarding Area
Non-Harvestable Area
Type-F Stream
Type-N Stream
Stream Buffer
Section Line

VVVVVV Vacated Road

Cable Landing

—— 200 Foot Contour Band

---- 40 Foot Contour Band