

Sale FG-341-2020-W00557-01

District: Forest Grove Date: March 19, 2020

Cost Summary

	Conifer	Hardwood	Total	
Gross Timber Sale Value	\$2,428,270.26	\$0.00	\$2,428,270.26	
		Project Work:	(\$36,986.92)	
		Advertised Value:	\$2,391,283.34	



Sale FG-341-2020-W00557-01

District: Forest Grove Date: March 19, 2020

Timber Description

Location: Portions of Section 4 and 9, T5N, R3W, W.M.,

Columbia County, Oregon

Stand Stocking: 20%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	25	0	98

Volume by Grade	28	3S & 4S 6"- 11"	Total	
Douglas - Fir	4,413	644	5,057	
Total	4,413	644	5,057	

Comments: Pond Values Used: Local Pond Values, January 2020.

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

\$940/MBF = \$1,146/MBF - \$206/MBF

Western hemlock and Other Conifers Stumpage Price = Pond Value

\$313/MBF = \$519/MBF - \$206/MBF

Red alder and Other Hardwoods Stumpage Price = Pond Value minus Logging Cost:

\$320/MBF = \$526/MBF - \$206/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:

10 hours x \$150/hour = \$1,500

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

Slash Treatment: 50 acres x \$200/acre = \$10,000

TOTAL Other Costs (No Profit & Risk added) = \$17,500

ROAD MAINTENANCE

Move-in: \$1,210

General Road Maintenance: $1.51 \text{ miles } \times \$4,857.41/\text{mile} = \$7,334.69$

TOTAL Road Maintenance: \$8,544.69/5,057 MBF = \$1.69/MBF



Sale FG-341-2020-W00557-01

District: Forest Grove Date: March 19, 2020

Logging Conditions

Combination#: 1 Douglas - Fir 100.00%

Logging System: Shovel **Process:** Feller Buncher

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

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

loads / day: 11 bd. ft / load: 4100

cost / mbf: \$78.45

machines: Feller Buncher w/ Delimber



Sale FG-341-2020-W00557-01

District: Forest Grove Date: March 19, 2020

Logging Costs

Operating Seasons: 1.00

Profit Risk: 10%

Project Costs: \$36,986.92

Other Costs (P/R): \$0.00

Slash Disposal: \$0.00

Other Costs: \$17,500.00

Miles of Road

Road Maintenance:

\$1.69

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	



Sale FG-341-2020-W00557-01

District: Forest Grove Date: March 19, 2020

Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Paint	Other	Total
Douglas -	Fir								
\$78.45	\$1.72	\$0.87	\$100.94	\$0.00	\$18.20	\$0.00	\$2.00	\$3.46	\$205.64

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$685.82	\$480.18	\$0.00



Sale FG-341-2020-W00557-01

District: Forest Grove Date: March 19, 2020

Summary

Amortized

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

Unamortized

Specie	MBF	Value	Total	
Douglas - Fir	5,057	\$480.18	\$2,428,270.26	

Gross Timber Sale Value

Recovery: \$2,428,270.26

Prepared By: Adrian Torres Phone: 503-454-8460

TIMBER SALE SUMMARY Star Date 2020 FG-341-2020-W00557-01

- 1. <u>Location</u>: Portions of Sections 4 and 9, T5N, R3W, W.M., Columbia County, Oregon.
- 2. <u>Type of Sale</u>: This Timber Sale is 96 net acres of Modified Clearcut. The timber will be sold on a recovery basis at a sealed bid auction.
- 3. Revenue Distribution: 100% BOF; 100% Columbia County.
- **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 February of 2020. For more information, see Cruise Report.
- **6.** <u>Timber Description</u>: The Timber Sale Area consists of a well-stocked, partially thinned 78-year old Douglas-fir stand with minor amounts of western hemlock, western red cedar, and red alder. The stand has an average of 179 ft² of basal area (all species), an average Douglas-fir DBH of 25 inches, and an estimated average net Douglas-fir volume of approximately 52.7 MBF per acre.
- 7. <u>Topography and Logging Method</u>: Slopes within the Timber Sale Area ranges from 2% to 40% and variable in southern and northern aspect. The Timber Sale Area is 100% ground-based yarding. The average horizontal skid trail length is approximately 500 feet and the maximum is approximately 780 feet.
- 8. Access: All access to the Timber Sale Area is on surfaced all-weather roads. From Forest Grove travel north on SR 47 through Banks. Continue on SR 47 as it merges with SR 26, then splits off again to the right toward Vernonia near MP 77. Continue north on SR47 approximately 16 miles through Vernonia then for another 8 miles to Apiary Road. Turn right onto Apiary Road and travel 6.4 miles to Mudge Loop Road and turn left. Continue on Mudge Loop Road for 0.2 miles to access the eastern portion of the Timber Sale Area.

9. Projects:

Project No. 1: Dirt Road Construction \$9,415.12
Project No. 2: Road Improvement \$24,080.61
Project No. 3: Road Vacating \$3,491.19

Total Credit for all Projects

\$36,986.92

PROJECT COST SUMMARY SHEET

Timber Sale: Star Date 2020 FG-341-2020-W00557-01 Sale Number: PROJECT NO. 1: DIRT ROAD CONSTRUCTION Road Segment Length Cost B to C 20+00 \$8,025.90 20+00 stations 0.38 miles Move-in = \$1,389.22 TOTAL PROJECT COST = \$9,415.12 **PROJECT NO. 2: ROAD IMPROVEMENT** Road Segment Length Cost A to B 5+00 \$2,253.23 D to E 38+00 \$5,752.07 F to G 36+30 \$7,179.31 PT H \$1,140.20 PT I \$4,202.66 79+30 stations 1.50 miles Total Rock = 1½" - 0 100 cy 170 cy 3" - 0 \$3,553.14 Move-in = **TOTAL PROJECT COST =** \$24,080.61 **PROJECT NO. 3: ROAD VACATING** Road Segment Length Cost B to C 20+00 \$1,805.92 20+00 stations 0.38 miles Move-in = \$1,685.27 **TOTAL PROJECT COST =** \$3,491.19 \$36,986.92 TOTAL CREDITS =

Timber Sale:	: Star Date 2020			-	Sale Number:	FG-341-202	20-W00557-01
Road Segment:		A to B	3	-	Improvement:		stations
						0.09	miles
PROJECT NO. 2							
IMPROVEMENT							
Clearing & grubbing (scatter)	0.06	ac @	\$1,078.00	per acre =		\$64.68	
Clean ditch & scatter waste material	5.00	sta @	\$60.00	per sta =		\$300.00	
Clean culvert inlet & outlet, scatter waste	1	ea @	\$25.00	per ea =		\$25.00	
Grade, ditch, & roll	5.00	sta @	\$36.00	per sta =		\$180.00	
				TOTAL IN	MPROVEMEN'	T COSTS =	\$569.68
CULVERTS						_	·
Culverts and Bands	•						
18" Diameter	30	LF @	\$20.00	per LF =		\$600.00	
Markers & Stakes							
Culvert Markers	1	ea @	\$10.00	per ea =		\$10.00	
				то	TAL CULVED	T 000T0	ФС40 00
ROCK				<u>10</u>	TAL CULVER	100818=	\$610.00
	-	Door		Diagomar	n#/	1	
	Rock	Base Cost	Haul Cost	Placemer Processir		Dook Coot	
	Size	\$/cy	\$/cy	Cost \$/c		Rock Cost	
Subgrade rock		ψ/Су		COSt \$/C	у		
Bedding and backfill	1½" - 0	\$16.73	\$9.28	\$0.50	20	\$530.20	
bedding and backilli	1/2 - 0	ψ10.75	ψ9.20	Subtotal		\$530.20	
Surfacing rock	1			Oubiolai	_ 20	ψ550.20	
Spot rock	3" - 0	\$16.03	\$9.28	\$1.22	20	\$530.60	
oper.ees.		ψ.σ.σσ	ψσ.Ξσ	Subtotal		\$530.60	
			Totals	All Roc	k = 40		
				1½" -	-		
				3" -	0 = 20		
					TOTAL ROCI	COSTS =	\$1,060.80
EDOSION CONTROL							+ .,000.00
Grass seed & fertilizer	0.03	ac @	\$425.00	ner ac -	_	\$12.75	
OTASS SEEU & TETUIIZET	0.03	ac w	·	per ac =			
			<u>TC</u>	OTAL EROS	ION CONTRO	L COSTS =	\$12.75
				_			**
				<u>T</u>	OTAL PROJE	CI COST =	\$2,253.23

	SUMMANT OF CONSTRUCTION COST						
Timber Sale:	Star Date 2020			<u> </u>	ale Number:	FG-341-20	20-W00557-01
Road Segment:		B to C		(Construction:	20+00	stations
				='		0.38	miles
PROJECT NO. 1							
CONSTRUCTION			64 070 00			60 470 40	
Clearing & grubbing (scatter)	2.30	ac @				\$2,479.40	
Balanced road construction	20.00	sta @	\$110.00			\$2,200.00	
Turnouts	2	ea @	\$66.00			\$132.00	
Turnarounds	1	ea @				\$82.50	
70' Landing	1	ea @		per ea =		\$314.00	
Grade & roll (outslope)	4.50	sta @	\$32.20	per sta =		\$144.90	
Grade, ditch, & roll	15.50	sta @	\$36.00	per sta =		\$558.00	
				TOTAL COL	NSTRUCTIO	N COSTS -	\$5,910.80
CULVERTS				TOTALOG	1011100110	11 00010 =	ψ0,510.00
Culverts and Bands							
18" Diameter	90	LF @	\$20.00	per LF =		\$1,800.00	
Markers & Stakes	90	LF @	\$20.00	per Lr =		\$1,000.00	
Culvert markers	3	ea @	\$10.00	per ea =		\$30.00	
Culveit markers	3	ea @	\$10.00	per ea =		\$30.00	
				TOT	AL CULVER	T COSTS =	\$1,830.00
ROCK							
				Placement/			
	Rock	Base	Haul Cost	Processing		Rock Cost	
	Size	Cost \$/cy	\$/cy	Cost \$/cy	Total OT	rtook oost	
Subgrade rock				Cost p/cy			
Bedding and backfill	1½" - 0	\$16.73	\$9.28	\$0.50	10	\$265.10	
bedding and backini	1/2 - 0	ψ10.73	Ψ3.20	Subtotal =	10	\$265.10	
				Subtotal =	10	\$205.10	
			Totals	All Rock	= 10	1	
			Iotais	1½" - 0			
				1/2 - 0	_ 10	1	
					TOTAL ROC	K COSTS =	\$265.10
ED COLON CONTENT					-		,
EROSION CONTROL			640.00			600.00	
Straw mulch (bale)	2	ea @	\$10.00	per ea =		\$20.00	
			т	OTAL EROSIO	NI CONTRO	L COSTS =	\$20.00
			7	OTAL ENUSIO	JIN CONTRO	<u> </u>	Ψ20.00

TOTAL PROJECT COST = \$8,025.90

Timber Sale:	Star Date 2020		_ s	Sale Number:		20-W00557-01	
Road Segment:		D to E	<u> </u>	In	nprovement:	38+00	stations
						0.72	miles
PROJECT NO. 2							
IMPROVEMENT							
Clearing & grubbing (scatter)	0.44	ac @	\$1,078.00	per acre =		\$474.32	
Clean ditch & scatter waste material	38.00	sta @	\$60.00	per sta =		\$2,280.00	
Clean culvert inlet & outlet, scatter waste	4	ea @	\$25.00	per ea =		\$100.00	
Improve Turnarounds	1	ea @	\$41.25	per ea =		\$41.25	
Grade, ditch, & roll	38.00	sta @	\$36.00	per sta =		\$1,368.00	
,				•	PROVEMEN	•	\$4,263.57
CULVERTS				TOTALIM	NO V LIVILIN	1 00010 =	ψ+,203.31
Markers & Stakes	•						
Culvert Markers	1	ea @	\$10.00	per ea =		\$10.00	
				•			
				TOT	AL CULVER	T COSTS =	\$10.00
ROCK							
		Base	Ī <u>.</u>	Placement/			
	Rock	Cost	Haul Cost	Processing		Rock Cost	
	Size	\$/cy	\$/cy	Cost \$/cy	Total OT	rtook oook	
Surfacing rock		4, -7	<u>l</u>	1 0000 4.09	<u>I</u>		
Spot Rock	3" - 0	\$16.03	\$10.45	\$1.22	50	\$1,385.00	
<u> </u>			•	Subtotal =	50	\$1,385.00	
						1	
			Totals	All Rock			
				3" - 0	= 50		
				7	TOTAL ROCI	√ COSTS _	\$1,385.00
EDOGIONI CONTROL				<u>-</u> !	OTAL NOOI	(00010=	ψ1,303.00
EROSION CONTROL Grass seed & fertilizer	0.22	ac @	\$425.00	por oc –		\$93.50	
Grass seed & lerunzer	0.22	ac w	φ423.00	per ac =		ტ ყ ა.ეს	
			<u>T</u>	OTAL EROSIC	N CONTRO	L COSTS =	\$93.50
				TO	TAL PROJE	CT COST =	\$5,752.07

Timber Sale:		tar Date	2020		ale Number:	FG-341-202	0-W00557-01
Road Segment:		F to C	3	_ 	nprovement:		stations
						0.69	miles
PROJECT NO. 2							
IMPROVEMENT							
Clearing & grubbing (scatter)	0.42	ac @	\$1,078.00	per acre =		\$452.76	
Clean ditch & scatter waste material	36.30	sta @	\$60.00	per sta =		\$2,178.00	
Clean culvert inlet & outlet, scatter waste	1	ea @	\$25.00	per ea =		\$25.00	
Improve Turnouts	4	ea @	\$33.00	per ea =		\$132.00	
Construct Turnarounds	1	ea @	\$82.50	per ea =		\$82.50	
Construct Roadside 50' landing	1	ea @	\$165.00	per ea =		\$165.00	
Grade, ditch, & roll	36.30	sta @	\$36.00	per sta =		\$1,306.80	
				TOTAL IME	PROVEMEN	T COSTS =	\$4,342.06
ROCK							
	D. J.	Base	11101	Placement/			
	Rock	Cost	Haul Cost	Processing	Total CY	Rock Cost	
	Size	\$/cy	\$/cy	Cost \$/cy			
Surfacing rock				•	•		
Spot Rock	3' - 0	\$16.03	\$10.23	\$1.22	100	\$2,748.00	
				Subtotal =	100	\$2,748.00	
			Totals	All Rock	= 100	1	
				3" - 0			
				7	TOTAL ROC	K COSTS =	\$2,748.00
EROSION CONTROL				<u>-</u>			+-,, 10.00
Grass seed & fertilizer	0.21	ac @	\$425.00	per ac =		\$89.25	
			Т	OTAL EROSIC	N CONTRO	L COSTS =	\$89.25
			<u> </u>				¥00. <u>_</u> 0
				TO:	TAL PROJE	CT COST -	\$7,179.31
				<u>10</u>	IALINOUL		ψι, 11 σ.σ Ι

	Timber Sale:	S	tar Date	2020	S	ale Number:	FG-341-202	0-W00557-01
	Road Segment:		Point	Н	Ir	nprovement:	+ 0.00	stations miles
PROJECT NO. 2								
CULVERTS								
Culverts and Bands 18" Diameter Markers & Stakes		30	LF @	\$20.00	per LF =		\$600.00	
Culvert Markers		1	ea @	\$10.00	per ea =		\$10.00	
					TOT	AL CULVER	T COSTS =	\$610.00
ROCK					<u></u>			ψο.σ.σσ
		Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost	
Subgrade rock				•	•	•		
Bedding and backfill		1½" - 0	\$16.73	\$9.28	\$0.50	20	\$530.20	
				Totals	All Rock			
]	OTAL ROC	K COSTS =	\$530.20

TOTAL PROJECT COST = \$1,140.20

Timber Sale:	St	tar Date 2	2020	Sal	e Number:	FG-341-202	0-W00557-01
Road Segment:		Point	l	_ Imp	provement:		stations
						0.00	miles
PROJECT NO. 2							
IMPROVEMENT							
CULVERTS	1						
Culverts and Bands							
30" Diameter	60	LF@	\$39.00	per LF =		\$2,340.00	
30" Band	2	ea@	\$73.58	per ea =		\$147.16	
Additional Installation Cost							
Fill Exavation, Construction	2	hrs @	\$175.00	per hr =		\$350.00	
				TOTAL	CHILVED.	T COSTS	£2.027.46
ROCK				IOTAL	_ CULVER	T COSTS =	\$2,837.16
		Base		Placement/			
	Rock	Cost	Haul Cost	Processing	Total CV	Rock Cost	
	Size	\$/cy	\$/cy	Cost \$/cy	Total C1	NOCK COSt	
Subgrade rock					ı		
Bedding and backfill	1½" - 0	\$16.73	\$9.28	\$0.50	50	\$1,325.50	
			Totals	All Rock =	50	1	
			Totals	1½" - 0 =	_		
						3	
				<u>TC</u>	TAL ROCI	K COSTS =	\$1,325.50
EROSION CONTROL Straw Mulch Bale	. 4	ea @	\$10.00	por 00 -		\$40.00	
Straw Willich Dale	4	ea w	φ10.00	per ea =		Φ40.00	
			<u>T(</u>	OTAL EROSION	CONTRO	L COSTS =	\$40.00
				<u>TOT</u>	AL PROJE	CT COST =	\$4,202.66

Timber Sale:	Timber Sale:		Sale	Number:	FG-341-20	020-W00557-01
Road Segment:	B to C			Vacating:	20+00	stations
				,	0.38	miles
PROJECT NO. 3 Road Vacate						
Rip dirt road surface	20.00	sta @	\$25.00 per sta =		\$500.00	
Rip landing	1	ea@	\$150.00 per ea =		\$150.00	
Remove existing culverts	3	ea @	\$150.00 per ea =		\$450.00	
Grass seed & fertilizer	0.69	ac @	\$425.00 per ac =		\$292.70	
Mulch	0.69	ac @	\$600.00 per ac =		\$413.22	
			TOTA	L PROJE	CT COST =	\$1,805.92

Timber Sale: Star Date 2020 Sale Number: <u>FG-341-2020-W00557-01</u>

PROJECT No. 1 & 2 MOVE-IN, WITHIN AREA MOVE, 8	& CLEANING COSTS	
Equipment	Total	
Grader	\$670.63	
Roller (smooth/grid) & Compactor	\$438.23	
Excavator (Large) - Equipment Cleaning	\$1,685.27	
Dozer (Large) - Equipment Cleaning	\$1,723.35	
Dump Truck (10cy +)	\$283.25	
Water Truck (2,500 Gal)	\$141.63	
	TOTAL MOVE-IN COSTS =	\$4,942.36
PROJECT No. 3 MOVE-IN & CLEANING COSTS		
Equipment	Total	
Excavator (Large) - Equipment Cleaning	\$1,685.27	
	TOTAL MOVE-IN COSTS =	\$1,685.27

TIMBER SALE SUMMARY Star Date 2020 FG-341-2020-W00557-01

- 1. <u>Location</u>: Portions of Sections 4 and 9, T5N, R3W, W.M., Columbia County, Oregon.
- 2. <u>Type of Sale</u>: This Timber Sale is 96 net acres of Modified Clearcut. The timber will be sold on a recovery basis at a sealed bid auction.
- 3. Revenue Distribution: 100% BOF; 100% Columbia County.
- **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 February of 2020. For more information, see Cruise Report.
- **Timber Description:** The Timber Sale Area consists of a well-stocked, partially thinned 78-year old Douglas-fir stand with minor amounts of western hemlock, western red cedar, and red alder. The stand has an average of 179 ft² of basal area (all species), an average Douglas-fir DBH of 25 inches, and an estimated average net Douglas-fir volume of approximately 52.7 MBF per acre.
- 7. <u>Topography and Logging Method</u>: Slopes within the Timber Sale Area ranges from 2% to 40% and variable in southern and northern aspect. The Timber Sale Area is 100% ground-based yarding. The average horizontal skid trail length is approximately 500 feet and the maximum is approximately 780 feet.
- 8. Access: All access to the Timber Sale Area is on surfaced all-weather roads. From Forest Grove travel north on SR 47 through Banks. Continue on SR 47 as it merges with SR 26, then splits off again to the right toward Vernonia near MP 77. Continue north on SR47 approximately 16 miles through Vernonia then for another 8 miles to Apiary Road. Turn right onto Apiary Road and travel 6.4 miles to Mudge Loop Road and turn left. Continue on Mudge Loop Road for 0.2 miles to access the eastern portion of the Timber Sale Area.

9. Projects:

Project No. 1: Dirt Road Construction \$9,415.12
Project No. 2: Road Improvement \$24,080.61
Project No. 3: Road Vacating \$3,491.19

Total Credit for all Projects

\$36,986.92

CRUISE REPORT Star Date 2020 FG-341-2020-W00557-01

1. LOCATION: Portions of Sections 4 and 9, T5N, R3W, W.M., Columbia County, Oregon.

2. CRUISE DESIGN:

Pre-cruise evaluation indicated that the stand's average DBH is approximately 24 inches and the coefficient of variation is about 56%. 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. The cruise design chosen for this sale is a variable radius sample plot using a 40 BAF prism.

3. SAMPLING METHOD:

The Timber Sale Area was sampled in February 2020 with 36 variable radius grade plots using a 40 BAF prism. Plots were laid out on a 5 chain x 5 chain grid for the Timber Sale Area. Plots falling on or near existing roads or no-harvest areas were offset 1 chain.

4. CRUISE RESULTS:

157 trees were measured and graded producing a cumulative Sampling Error of 4.9% on the Douglas-fir basal area and 5.7% for the Douglas-fir net 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 top DIB of six inches (or 25% of DBH, whichever is larger) for conifers.
- b) **Diameter Standards:** Diameters were measured outside bark at breast height to the nearest inch.
- c) Form Factors: 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:** The following percent volume deductions are by species to account for the hidden defect and breakage. For conifers two percent was deducted. For hardwoods five percent was deducted.
- 7. CRUISERS: The sale was cruised by ODF cruiser Adrian Torres.

Prepared by:	Adrian Torres	03/19/2020
		Date
Reviewed by:	Ill An	3/19/20
•	Mark Savage	Date

TC PS	TATS					OJECT OJECT	STATI Sta		PAGE DATE	1 3/17/2020		
WP	RGE	SC	TRACT		TYPE		AC	RES	PLOTS	TREES	CuFt	BdFt
05N	03	04	00A1		00MC			96.00	35	157	S	W
						TREES		ESTIMATED TOTAL		ERCENT SAMPLE		
		J	PLOTS	TREES		PER PLOT	,	TREES		TREES		
TOTA	AL.		35	157		4.5						
CRUI DBH REFO COU BLAN	ISE COUNT DREST NT NKS		35	157		4.5		4,973		3.2		
100 %	6				STA	ND SUM	MADV		·			
		6	LL IDI E	mp ppg				D. C. L.	00.000) IEM	02.000	N I FORD
			AMPLE TREES	TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
DOLL	G FIR		156	51,4	25.2	161	35.5	178.3	53,869	53,754	10,233	10,233
	MLOCK		1	.4	23.0	138	0.2	1,1	281	281	60	60
TOT	AL		157	51.8	25.2	161	35.7	179.4	54,151	54,036	10,294	10,294
CL	68.1	5,1	COEFF	1 OF 100 I	HE VOLU		E TREE	HIN THE SAI S - BF		OF TREES	REQ.	INF. POP,
SD:	1.0		VAR.%	S.E.%	,							
	- • •				L	.OW	AVG	HIGH		5	10	1;
DOU WHE	G FIR MLOCK		65.3	5.2		1,280	AVG 1,351	HIGH 1,421				
DOU	G FIR MLOCK									5 171	43	
DOU WHE	G FIR MLOCK		65.3	5.2		1,280 1,276	1,351	1,421 1,417	#		43	
DOU WHE TOT CL SD:	G FIR MLOCK AL 68.1 1.0		65.3 65.4 COEFF VAR,%	5.2 5.2 S.E.%		1,280 <i>1,276</i> SAMPI .OW	1,351 1,346 E TREE AVG	1,421 1,417 S - CF HIGH	#	171	43	INF. POP.
DOU WHE TOT CL SD: DOU WHE	G FIR MLOCK AL 68.1 1.0 G FIR MLOCK		65.3 65.4 COEFF VAR.% 57.6	5.2 5.2 S.E.% 4.6		1,280 1,276 SAMPI OW 239	1,351 1,346 E TREE AVG 251	1,421 1,417 S - CF HIGH 263	#	171 FOF TREES 5	43 REQ. 10	19 INF. POP. 13
DOU WHE TOT CL SD: DOU WHE TOT	G FIR MLOCK AL 68.1 1.0 G FIR MLOCK AL		65.3 65.4 COEFF VAR.% 57.6	5.2 5.2 S.E.%		1,280 <i>1,276</i> SAMPI .OW	1,351 1,346 LE TREE AVG	1,421 1,417 S - CF HIGH	#	171 OF TREES	43 REQ.	19 INF. POP. 15
DOU WHE TOT CL SD: DOU WHE TOT	G FIR MLOCK AL 68.1 1.0 G FIR MLOCK AL 68.1		65.3 65.4 COEFF VAR.% 57.6 57.7 COEFF	5.2 5.2 S.E.% 4.6	L	1,280 1,276 SAMPI .OW 239 239 TREES	1,351 1,346 E TREE AVG 251 250 /ACRE	1,421 1,417 S - CF HIGH 263 262		171 FOF TREES 5 133 FOF PLOTS	43 REQ. 10 33 REQ.	19 INF. POP. 13 INF. POP.
DOU WHE TOT CL SD: DOU WHE TOT CL SD:	G FIR MLOCK AL 68.1 1.0 G FIR MLOCK AL 68.1 1.0.		65.3 65.4 COEFF VAR.% 57.6 57.7 COEFF VAR.%	5.2 5.2 S.E.% 4.6 4.6 S.E.%	L	1,280 1,276 SAMPI .OW 239 239 TREES .OW	1,351 1,346 E TREE AVG 251 250 /ACRE AVG	1,421 1,417 S - CF HIGH 263 262 HIGH		171 F OF TREES 5	43 REQ. 10	19 INF. POP. 13 INF. POP.
DOU WHE TOT CL SD: DOU WHE TOT CL SD: DOU	G FIR MLOCK AL 68.1 1.0 G FIR MLOCK AL 68.1 1.0 G FIR		65.3 65.4 COEFF VAR.% 57.6 57.7 COEFF VAR.% 33.2	5.2 5.2 S.E.% 4.6 4.6 S.E.% 5.6	L	1,280 1,276 SAMPI .OW 239 239 TREES	1,351 1,346 E TREE AVG 251 250 /ACRE	1,421 1,417 S - CF HIGH 263 262		171 FOF TREES 5 133 FOF PLOTS	43 REQ. 10 33 REQ.	19 INF. POP. 13 INF. POP.
DOU WHE TOT CL SD: DOU WHE TOT CL SD: DOU	G FIR MLOCK AL 68.1 1.0 G FIR MLOCK AL 68.1 1.0 G FIR		65.3 65.4 COEFF VAR.% 57.6 57.7 COEFF VAR.%	5.2 5.2 S.E.% 4.6 4.6 S.E.%	L	1,280 1,276 SAMPI OW 239 239 TREES OW 49	1,351 1,346 E TREE AVG 251 250 /ACRE AVG 51	1,421 1,417 S - CF HIGH 263 262 HIGH 54		171 FOF TREES 5 133 FOF PLOTS	43 REQ. 10 33 REQ.	19 INF. POP. 13 INF. POP.
DOUWHE TOT CL SD: DOUWHE TOT TOT	G FIR MLOCK AL 68.1 1.0 G FIR MLOCK AL 68.1 1.0 G FIR MLOCK AL	hadelini et i	65.3 65.4 COEFF VAR.% 57.6 57.7 COEFF VAR.% 33.2 591.6 32.6	5.2 5.2 S.E.% 4.6 4.6 S.E.% 5.6 99.9	L	1,280 1,276 SAMPI .OW 239 239 TREES .OW 49 0 49	1,351 1,346 E TREE AVG 251 250 /ACRE AVG 51 0 52	1,421 1,417 S - CF HIGH 263 262 HIGH 54 1 55	#	171 F OF TREES 5 133 F OF PLOTS 5	43 REQ. 10 33 REQ. 10	19 INF. POP. 13 INF. POP. 13
DOUWHE TOT CL SD: DOUWHE TOT TOT	G FIR MLOCK AL 68.1 1.0 G FIR MLOCK AL 68.1 1.0 G FIR MLOCK AL 68.1 1.0 G FIR MLOCK AL 68.1		65.3 65.4 COEFF VAR.% 57.6 57.7 COEFF VAR.% 33.2 591.6	5.2 5.2 S.E.% 4.6 4.6 S.E.% 5.6 99.9	L	1,280 1,276 SAMPI .OW 239 239 TREES .OW 49 0 49	1,351 1,346 E TREE AVG 251 250 /ACRE AVG 51 0	1,421 1,417 S - CF HIGH 263 262 HIGH 54 1 55	#	171 FOF TREES 5 133 FOF PLOTS 5	43 REQ. 10 33 REQ. 10 11 REQ.	INF. POP. 13 INF. POP. 13 INF. POP.
DOUWHE TOT CL SD: DOUWHE TOT CL SD: DOUWHE TOT CL SD: DOU	G FIR MLOCK AL 68.1 1.0 G FIR		65.3 65.4 COEFF VAR.% 57.6 57.7 COEFF VAR.% 33.2 591.6 32.6 COEFF VAR.% 29.0	5.2 5.2 S.E.% 4.6 4.6 S.E.% 5.6 99.9 5.5 S.E.% 4.9	L	1,280 1,276 SAMPI .OW 239 239 TREES .OW 49 0 49 BASAL	1,351 1,346 LE TREE AVG 251 250 /ACRE AVG 51 0 52 AREA/A	1,421 1,417 S - CF HIGH 263 262 HIGH 54 1 55	#	171 FOF TREES 5 133 FOF PLOTS 5	43 REQ. 10 33 REQ. 10	INF. POP. 13 INF. POP. 13 INF. POP.
DOUWHE TOT CL SD: DOUWHE TOT CL SD: DOUWHE TOT CL SD: DOUWHE TOT CL SD: DOUWHE SD: DOUWH	G FIR MLOCK AL 68.1 1.0 G FIR		65.3 65.4 COEFF VAR.% 57.6 57.7 COEFF VAR.% 33.2 591.6 32.6 COEFF VAR.% 29.0 591.6	5.2 5.2 S.E.% 4.6 4.6 S.E.% 5.6 99.9 5.5 S.E.% 4.9 99.9	L	1,280 1,276 SAMPI OW 239 239 TREES OW 49 0 49 BASAL OW 170 0	1,351 1,346 E TREE AVG 251 250 ACRE AVG 51 0 52 AREA/A AVG 178 1	1,421 1,417 S - CF HIGH 263 262 HIGH 54 1 55 ACRE HIGH 187 2	#	171 FOF TREES 5 133 FOF PLOTS 5 42 FOF PLOTS 5	43 REQ. 10 33 REQ. 10 11 REQ. 10	19 INF. POP. 13 INF. POP. 15 INF. POP. 15
DOUWHE TOT CL SD: DOUWHE TOT CL SD: DOUWHE TOT CL SD: DOUWHE TOT CL SD: DOUWHE TOT	G FIR MLOCK AL 68.1 1.0 AL		65.3 65.4 COEFF VAR.% 57.6 57.7 COEFF VAR.% 33.2 591.6 32.6 COEFF VAR.% 29.0	5.2 5.2 S.E.% 4.6 4.6 S.E.% 5.6 99.9 5.5 S.E.% 4.9	L	1,280 1,276 SAMPI OW 239 239 TREES OW 49 0 49 BASAL OW 170	1,351 1,346 E TREE AVG 251 250 ACRE AVG 51 0 52 AREA/A AVG 178	1,421 1,417 S - CF HIGH 263 262 HIGH 54 1 55 ACRE HIGH 187	#	171 FOF TREES 5 133 FOF PLOTS 5	43 REQ. 10 33 REQ. 10 11 REQ.	19 INF. POP. 15 INF. POP. 15 INF. POP. 15
DOUWHE TOT CL SD: DOUWHE TOT CL SD: C	G FIR MLOCK AL 68.1 1.0 G FIR MLOCK AL		65.3 65.4 COEFF VAR.% 57.6 57.7 COEFF VAR.% 33.2 591.6 32.6 COEFF VAR.% 29.0 591.6 28.3 COEFF	5.2 5.2 S.E.% 4.6 4.6 S.E.% 5.6 99.9 5.5 S.E.% 4.9 99.9 4.8	L	1,280 1,276 SAMPI OW 239 239 TREES OW 49 0 49 BASAL OW 170 0 171 NET BI	1,351 1,346 E TREE AVG 251 250 /ACRE AVG 51 0 52 AREA/A AVG 178 1 179	1,421 1,417 S - CF HIGH 263 262 HIGH 54 1 55 ACRE HIGH 187 2 188	#	171 FOF TREES 5 133 FOF PLOTS 5 42 FOF PLOTS 5	43 REQ. 10 33 REQ. 10 11 REQ. 10 8 REQ.	INF. POP. IS INF. POP. IS INF. POP. IS INF. POP.
DOUWHE TOT CL SD: DOUWHE TOT CL SD: C	G FIR MLOCK AL 68.1 1.0		65.3 65.4 COEFF VAR.% 57.6 57.7 COEFF VAR.% 33.2 591.6 32.6 COEFF VAR.% 29.0 591.6 28.3 COEFF VAR.%	5.2 5.2 S.E.% 4.6 4.6 S.E.% 5.6 99.9 5.5 S.E.% 4.9 99.9 4.8 S.E.%	L	1,280 1,276 SAMPI OW 239 239 TREES OW 49 0 49 BASAL OW 170 0 171 NET BI	1,351 1,346 E TREE AVG 251 250 ACRE AVG 51 0 52 AREA/A AVG 178 1 179 E/ACRE AVG	1,421 1,417 S - CF HIGH 263 262 HIGH 54 1 55 ACRE HIGH 187 2 188 HIGH	#	171 FOF TREES 5 133 FOF PLOTS 5 42 FOF PLOTS 5	43 REQ. 10 33 REQ. 10 11 REQ. 10	15 INF. POP. 15 INF. POP. 15 INF. POP. 15 INF. POP.
DOUWHE TOT CL SD:	G FIR MLOCK AL 68.1 1.0 G FIR		65.3 65.4 COEFF VAR.% 57.6 57.7 COEFF VAR.% 33.2 591.6 32.6 COEFF VAR.% 29.0 591.6 28.3 COEFF VAR.% 33.5	5.2 5.2 S.E.% 4.6 4.6 S.E.% 5.6 99.9 5.5 S.E.% 4.9 99.9 4.8 S.E.% 5.7	L	1,280 1,276 SAMPI OW 239 239 TREES OW 49 0 49 0 170 0 171 NET BI OW 50,709	1,351 1,346 E TREE AVG 251 250 /ACRE AVG 51 0 52 AREA/A AVG 178 1 179 E/ACRE AVG 53,754	1,421 1,417 S - CF HIGH 263 262 HIGH 54 1 55 ACRE HIGH 187 2 188 HIGH 56,800	#	171 FOF TREES 5 133 FOF PLOTS 5 42 FOF PLOTS 5	43 REQ. 10 33 REQ. 10 11 REQ. 10 8 REQ.	15 INF. POP. 15 INF. POP. 15 INF. POP. 15 INF. POP.
DOUWHE TOT CL SD:	G FIR MLOCK AL 68.1 1.0 G FIR MLOCK AL		65.3 65.4 COEFF VAR.% 57.6 57.7 COEFF VAR.% 33.2 591.6 32.6 COEFF VAR.% 29.0 591.6 28.3 COEFF VAR.%	5.2 5.2 S.E.% 4.6 4.6 S.E.% 5.6 99.9 5.5 S.E.% 4.9 99.9 4.8 S.E.%	L L	1,280 1,276 SAMPI OW 239 239 TREES OW 49 0 49 0 170 0 171 NET BI OW 50,709 0	1,351 1,346 E TREE AVG 251 250 /ACRE AVG 51 0 52 AREA/A AVG 178 1 179 E/ACRE AVG 53,754 281	1,421 1,417 S - CF HIGH 263 262 HIGH 54 1 55 ACRE HIGH 187 2 188 HIGH 56,800 562	#	171 FOF TREES 5 133 FOF PLOTS 5 42 FOF PLOTS 5	43 REQ. 10 33 REQ. 10 11 REQ. 10 8 REQ. 10	19 INF. POP. 15 INF. POP. 15 INF. POP. 15 INF. POP. 15
DOUWHE TOT CL SD: DOUWHE TOT CL SD: DOUWHE TOT CL SD: DOUWHE TOT CL SD: DOUWHE TOT	G FIR MLOCK AL 68.1 1.0 G FIR MLOCK AL		65.3 65.4 COEFF VAR.% 57.6 57.7 COEFF VAR.% 33.2 591.6 32.6 COEFF VAR.% 29.0 591.6 28.3 COEFF VAR.% 33.5 591.6 33.5	5.2 5.2 S.E.% 4.6 4.6 S.E.% 5.6 99.9 5.5 S.E.% 4.9 99.9 4.8 S.E.% 5.7 99.9	L L	1,280 1,276 SAMPI OW 239 239 TREES OW 49 0 49 BASAL OW 170 0 171 NET BI OW 50,709 0 1,025	1,351 1,346 E TREE AVG 251 250 ACRE AVG 51 0 52 AREA/A AVG 178 1 179 E/ACRE AVG 53,754 281 54,036	1,421 1,417 S - CF HIGH 263 262 HIGH 54 1 55 ACRE HIGH 187 2 188 HIGH 56,800 562 57,046	##	171 FOF TREES 5 133 FOF PLOTS 5 42 FOF PLOTS 5 32 FOF PLOTS 5	### ### ### ### ### ### ### ### ### ##	19 INF. POP. 15 INF. POP. 15 INF. POP. 15 INF. POP. 15
DOUWHE TOT CL SD: DOUWHE TOT CL SD: DOUWHE TOT CL SD: CL S	G FIR MLOCK AL 68.1 1.0 G FIR MLOCK AL		65.3 65.4 COEFF VAR.% 57.6 57.7 COEFF VAR.% 33.2 591.6 32.6 COEFF VAR.% 29.0 591.6 28.3 COEFF VAR.% 33.5 591.6 33.0 COEFF	5.2 5.2 S.E.% 4.6 4.6 S.E.% 5.6 99.9 5.5 S.E.% 4.9 99.9 4.8 S.E.% 5.7 99.9 5.6	L L S	1,280 1,276 SAMPI OW 239 239 TREES OW 49 0 49 BASAL OW 170 0 171 NET BI OW 50,709 0 1,025 NET CI	1,351 1,346 E TREE AVG 251 250 ACRE AVG 51 0 52 AREA/A AVG 178 1 179 E/ACRE AVG 53,754 281 54,036 UFT FT/A	1,421 1,417 S - CF HIGH 263 262 HIGH 54 1 55 CCRE HIGH 187 2 188 HIGH 56,800 562 57,046 ACRE	##	171 FOF TREES 5 133 FOF PLOTS 5 42 FOF PLOTS 5 43 FOF PLOTS	43 REQ. 10 33 REQ. 10 11 REQ. 10 8 REQ. 10 11 REQ. 10	15 INF. POP. 15 INF. POP. 15 INF. POP. 15 INF. POP. 15
DOUWHE TOT CL SD: DOUWHE TOT CL SD: DOUWHE TOT CL SD: CL S	G FIR MLOCK AL 68.1 1.0 G FIR MLOCK AL		65.3 65.4 COEFF VAR.% 57.6 57.7 COEFF VAR.% 33.2 591.6 32.6 COEFF VAR.% 29.0 591.6 28.3 COEFF VAR.% 33.5 591.6 33.5	5.2 5.2 S.E.% 4.6 4.6 S.E.% 5.6 99.9 5.5 S.E.% 4.9 99.9 4.8 S.E.% 5.7 99.9	L L S	1,280 1,276 SAMPI OW 239 239 TREES OW 49 0 49 BASAL OW 170 0 171 NET BI OW 50,709 0 1,025	1,351 1,346 E TREE AVG 251 250 ACRE AVG 51 0 52 AREA/A AVG 178 1 179 E/ACRE AVG 53,754 281 54,036	1,421 1,417 S - CF HIGH 263 262 HIGH 54 1 55 ACRE HIGH 187 2 188 HIGH 56,800 562 57,046	##	171 FOF TREES 5 133 FOF PLOTS 5 42 FOF PLOTS 5 32 FOF PLOTS 5	### ### ### ### ### ### ### ### ### ##	15 INF. POP. 15 INF. POP. 15 INF. POP. 15
DOUWHE TOT CL SD:	G FIR MLOCK AL 68.1 1.0 G FIR MLOCK AL		65.3 65.4 COEFF VAR.% 57.6 57.7 COEFF VAR.% 33.2 591.6 32.6 COEFF VAR.% 29.0 591.6 28.3 COEFF VAR.% 33.5 591.6 33.0 COEFF VAR.%	5.2 5.2 S.E.% 4.6 4.6 S.E.% 5.6 99.9 5.5 S.E.% 4.9 99.9 4.8 S.E.% 5.7 99.9 5.6 S.E.%	L L S	1,280 1,276 SAMPI OW 239 239 TREES OW 49 0 49 0 170 0 171 NET BI OW 50,709 0 1,025 NET CO	1,351 1,346 E TREE AVG 251 250 /ACRE AVG 51 0 52 AREA/A AVG 178 1 179 E/ACRE AVG 53,754 281 54,036 UFT FT/A AVG	1,421 1,417 S - CF HIGH 263 262 HIGH 54 1 55 CCRE HIGH 187 2 188 HIGH 56,800 562 57,046 ACRE HIGH	#######################################	171 FOF TREES 5 133 FOF PLOTS 5 42 FOF PLOTS 5 43 FOF PLOTS	43 REQ. 10 33 REQ. 10 11 REQ. 10 8 REQ. 10 11 REQ. 10	15 INF. POP. 15 INF. POP. 15 INF. POP. 15 INF. POP. 15

TC PSTNDSUM	Stand Table Summary	Page 1 Date: 3/17/2020
T05N R03W S04 Ty00MC 96.00	Project STAR20	Time: 7:21:14AM
	Acres 96.00	Grown Year:

S Spc T	DBH	Sample Trees		Tot Av Ht	Trees/ Acre	BA/ Acre	Logs Acre	Averag Net Cu.Ft.	ge Log Net Bd.Ft.	Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Tons	Totals Cunits	MBF
DF	14	1	87	72	1.069	1.14	1.07	25.4	90.0	.77	27	96	74	26	9
DF	15	5	89	122	4,656	5.71	12.11	18.8	83.8	6.49	228	1,015	623	219	97
DF	18	1	89	127	.647	1.14	1.94	26.6	116.7	1.47	52	226	141	50	22
DF	19	2	90	145	1.161	2.29	3.48	32,1	148.3	3.19	112	517	306	107	50
DF	20	2	90	154	1.048	2.29	3.14	37.3	181.7	3.34	117	571	321	113	55
DF	21	9	90	156	4.276	10.29	14.25	38.0	185.0	15.43	542	2,637	1,482	520	253
DF	22	11	89	158	4.762	12.57	16.02	42.3	205.1	19.31	677	3,286	1,854	650	315
DF	23	9	89	162	3.565	10.29	12.28	46.7	230.3	16.34	573	2,828	1,568	550	272
DF	24	12	89	165	4.365	13.71	15.64	49.5	253.3	22.09	775	3,962	2,121	744	380
DF	25	19	89	163	6.370	21.71	23.13	51.7	261.4	34.09	1,196	6,048	3,272	1,148	581
DF	26	10	89	172	3,100	11.43	12.40	53.9	286.0	19.06	669	3,546	1,829	642	340
DF	27	10	89	174	2.874	11.43	10.92	61.9	332.9	19.27	676	3,636	1,850	649	349
DF	28	10	89	177	2.673	11.43	10.16	68.5	370.5	19.83	696	3,763	1,904	668	361
DF	29	10	89	184	2,492	11.43	10.22	70.1	383.4	20.42	717	3,917	1,961	688	376
DF	30	7	89	175	1.630	8.00	6.05	78.9	425.8	13.62	478	2,577	1,307	459	247
DF	31	4	89	174	.872	4.57	3.49	79.4	440.0	7.90	277	1,535	758	266	147
DF	32	8	88	175	1,637	9.14	6.34	87.0	476.5	15.73	552	3,022	1,510	530	290
DF	33	6	88	175	1.154	6.86	4.23	95.9	524.5	11.57	406	2,220	1,111	390	213
DF	34	8	88	185	1.450	9.14	5.62	101.0	571.6	16.18	568	3,212	1,553	545	308
DF	35	3	86		.513	3.43	2.22	96.7	547.7	6.13	215	1,218	588	206	117
DF	36	1	88	169	.162	1.14	.65	102.0	572.5	1.88	66	370	180	63	36
DF	37	1	81		.153	1.14	.61	100.0	457.5	1.75	61	280	168	59	27
DF	38	1	90		.145	1.14	.58	137.6	780.0	2.28	80	453	219	77	43
DF	39	1	88		.138	1.14	.55	133.6	772.5	2.10	74	426	201	71	41
DF	40	1	88		.131	1.14	.65	130.0	818.0	2.43	85	536	233	82	51
DF	46	1	91	230	.099	1.14	.50	181.9	1178.0	2.57	90	583	246	86	56
DF	47	1	80		.095	1,14	.47	166.7	958.0	2.25	79	454	216	76	44
DF	49	1	87	210	.087	1.14	.44	183,2	1100.0	2.28	80	480	219	77	46
DF	51	1	75	207	.081	1.14	.32	206.8	1052.5	1.90	67	339	182	64	33
DF	Totals	156	89	161	51.405	178.29	179.50	57.0	299.5	291.65	10,233	53,754	27,998	9,824	5,160
WH	23	1	88	138	.396	1.14	1.19	50.9	236.7	1.94	60	281	186	58	27
WH	Totals	1	88	138	.396	1,14	1.19	50.9	236.7	1.94	60	281	186	58	27
Totals		157	89	161	51.801	179.43	180.69	57.0	299.1	293.58	10,294	54,036	28,184	9,882	5,187

TC	PSPCSTGR		\mathbf{S}_{l}	pecies,	Sort G	rade - Boar	d Fo	ot Vo	olume	es (P	roject	t)							
T05	N R03W S04	4 Ty00N	МС	96.00		Project: Acres	ST	AR2(96.(Page Date Time		1 17/20 :21:1	
		%					Perc	ent of	Net Bo	ard Fe	oot Volu	ıme				Avera	ge Lo	g	Logs
	S So Gr	Net	Bd. F	t. per Acre)	Total	L	og Sca	ale Dia.			Log L	ength		Ln	Dia	Bd	CF/	Per
Spp	T rt ad	BdFt	Def%	Gross	Net	Net MBF	4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99	Ft	In	Ft	Lf	/Acre
DF	2M	87	.2	47,026	46,911	4,503		0	31	69	1	1		99	39	17	486	2.21	96.6
DF	3M	11		6,125	6,125	588	ŀ	98	2			2	3	95	39	9	110	0,73	55.6
DF	4M	2		719	719	69		100			47	47		7	19	6	26	0.38	27.3
DF	Totals	99	.2	53,869	53,754	5,160		12	28	60	1	2	0	97	36	13	299	1.57	179.5

WH	2M	92		261	261	25			30	70				100	40	15	330	1.71	.8
WH	3M	8		20	20	2		100					100		33	6	50	0.49	.4
WH	Totals	1		281	281	27		7	28	65			7	93	38	12	237	1.35	1.2
Total	s		0.2	54,151	54,036	5,187		12	28	60	1	2	0	97	36	13	299	1.57	180.7

,

TC PLOGSTVB	Log Stock Table - MBF	
T05N R03W S04 Ty00MC 96.00	Project: STAR20 Acres 96.00	Page 1 Date 3/17/2020 Time 7:21:12AM

s	So Gr	I.or	Gross	Def Net	%		7	Vat Val	ıma bu	Scalin	a Dian	neter in 1	Inchae				
Spp Т				% MBF	Spc	2-3	4-5	6-7	ате <u>бү</u> 8-9		<u>g Dian</u> 12-13		16-19	20-23	24-29	30-39 40	 0+
DF	2M			6		-			· · · · · · · · · · · · · · · · · · ·				6				
DF	2M		[17									8	9			
DF	2M		l	I				1									
DF	2M			12										12			
DF	2M	25	24	24									24				
DF	2M	1 40	4,454	4, 443	86.1						362	657	1688	1022	589	125	
DF	3M	1 22	1	1	.0					J							
DF	3M	25	1	1	.0				1								
DF	3M	27	3	3	.1				2	1							
DF	3M	28	3	3	.1			1	1	1							
DF	3M			1	.0				1								
DF	3M		i	3	.0			3									
DF	3M			1	.0			1									
DF	3M			5	l			4	1					1			
DF	3M		1	5	.1			4	1								
DF	3M		1	5	l			3	1								
DF	3M			2	.0			2									
DF	3M			4	.1			2	1								
DF	3M			2	l			2									
DF	3M			2	l			2									
DF	3M			3	l			3									
DF	3M	1 40	547	547	10.6			81	173	279	13						
DF	4M	1 12	4	4	.1			3	1	0							
DF	4M	1 13	3	3	.1			3									
DF	4M	14	8	8	.2			7	0								
DF	4M	1 15	2	2	.0			2									
DF	4M	1 16	4	4	.1			4									
DF	4M	i 17	3	3	.1			3									
DF	4M	18	7	7	.1			5	2								
DF	4M	1 19	1	i	.0			1									
DF	4M	20	¥+++	1	.0			1									
DF	4M	1 21	3	3	.1.			2	1								
DF	4M	22	4	4	.1			4									
DF	4M	23	5	5	La			5									
DF	4M	24	5	5	1.			5									
DF	4M	25	3	3	.1			3									
	4M	1 26	4	4	1.	l		4		l		I		1		1	

TC	PLO	GSTVB				•	Log	Stock	Table	- MB	F	***************************************						
T05N R03W S04 Ty00MC 96.00				Project: Acres			STA	STAR20 96,00					Page 2 Date 3/17/2020 Time 7:21:12AM					
	s	So Gr	Log	Gross	Def	Net	%		Net Volume by Scaling Diameter in Inches					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		4M	1 27		4	4	.1			4								
DF		4M	1 28		l	1	.0			1								
DF		4M	1 29		4	4	.1			4								
DF		4M	1 30		2	2	.0			2								
DF		4M	1 37		3	3	.1			3								
DF		4M	1 38		2	2	.0			2								
DF		Total	s	5,17	1	5,160	99.5			175	187	283	376	657	1727	1043	589	125
WH		2M	1 40	2	5	25	93.0				***************************************		8		17			
WH		3M	1 33		2	2	7.0			2								
WH		Total	s	2	7	27	.5			2			8		17			
Total		All Speci	es	5,19	8	5,187	100.0			177	187	283	383	657	1744	1043	589	125

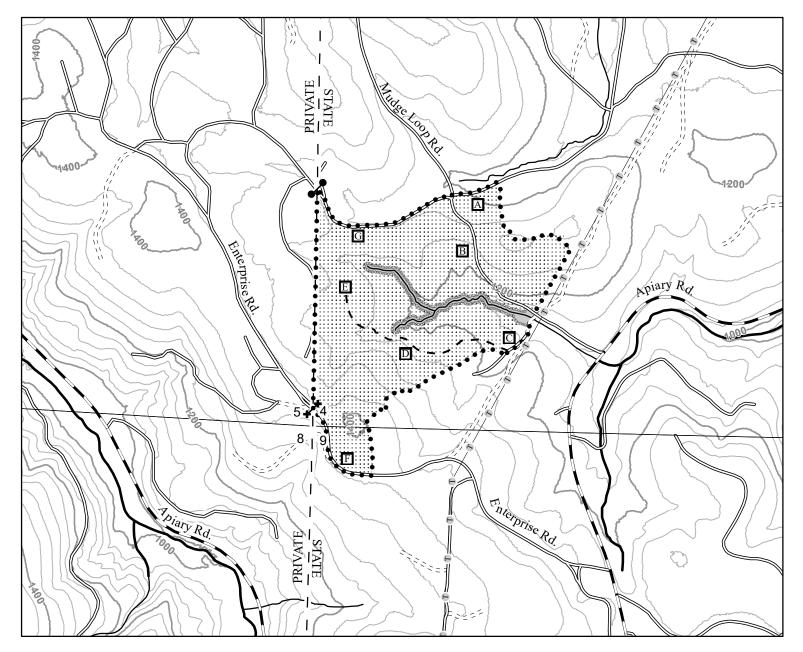
Volume Summary (Shown in MBF)

Star Date 2020 FG-341-2020-W00557-01 March 2020

UNIT 1: MC (96 ACRES)

SPECIES		2 SAW	3 SAW	4 SAW	TOTAL
	Cruise Volume	4,503	588	69	5,160
Douglas fir	Hidden D&B (2%)	(90)	(12)	(1)	(103)
Douglas-fir	NET TOTAL	4,413	576	68	5,057
	% of Total	87	11	2	

SALE TOTAL							
SPECIES	2 SAW	3 SAW	4 SAW	TOTAL			
Douglas-fir	4,413	576	68	5,057			
Total	4,413	576	68	5,057			



Legend

- • Timber Sale Boundary
- Stream Buffer Boundary
- ☐ ODF Ownership Boundary
- Highways
- Surfaced Roads
- = = = Unsurfaced Roads
- - New Road Construction
- Type-F Stream
- Type-N Stream
- Stream Buffer
- :::::: Tractor Yarding Area
- ☐ Tractor Landing
- Gate
- **★** Road Blockage
- T --- BPA Power Lines
- Section Lines
- —— 40 Foot Contour Band
- —— 200 Foot Contour Band

LOGGING PLAN

FOR TIMBER SALE CONTRACT #FG 341-2020-W00557-01 STAR DATE 2020 PORTIONS OF SECTIONS 4 & 9, T5N, R3W, W.M., COLUMBIA COUNTY, OREGON

> Forest Grove District GIS March, 2020

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

1:12,000 1 inch = 1,000 feet





APPROXIMATE NET ACRES

	TRACTOR	CABLE
TOTAL	96	0