CRUISE REPORT HEADER & CERTIFICATION
CRUISE#: 53883 SALE#: 53883
SALENAME: Bumblebee
RUN DATE & TIME: 2/21/2025 8:19:37 AM

Year: 0 Region: 05 Forest: 16 District: 53
Remarks:
FILENAME: C:\Users\jdierberg\Documents\CruiseFiles\Cruise Docs\50 STF\22 SERAL\POD 4\Bumblebee\53883_Bumblebee_TS_20250207_FIXED.cruise
REPORTS: A01 R401 R402 R501 ST3 VPA3 VSM3 WT5

********** CRUISE CERTIFICATION **********

I certify that the timber for the Bumblebee timber sale has been designated and cruised by the procedures and standards in FSH 2409.12, Timber Cruising Handbook. Records of checks are on file at the District Ranger Office,

Summit	Pinecrest, CA
RANGER DISTRICT	(name of headquarters town)
SHAWN WINSTEAD Digitally signed by SHAWN WINSTEAD Date: 2025.02.25 17:43:20 -08'00'	2/25/25
DISTRICT RANGER	DATE

****

CRUISE OF RECORD 2/21/2025

Developed and Maintained By:
USDA FOREST SERVICE
WASHINGTON OFFICE TIMBER MANAGEMENT
FORT COLLINS, COLORADO (970)295-5776

VERSION: 12.18.2024
VOLUME LIBRARY VERSION: 11.18.2024
NATIONAL CRUISE PROCESSING PROGRAM

BIOMASS EQUATION TABLE
CRUISE#: 53883 SALE#: 53883
SALENAME: Bumblebee
RUN DATE & TIME: 2/21/2025 8:19:37 AM

VERSION: 12.18.2024
VOLUME LIBRARY VERSION: 11.18.2024

SPECIES	PROD	COMPONENT	EQU	% MOIST	% REMV	L/D	FIA CODE	WEIGHT FACTOR PRIM	SECD	METDATA
WF	20				95.0	L		86.0		
PP	20				95.0	L		80.0		
IC	20				95.0	L		86.0		
RF	20				95.0	L		86.0		
SP	20				95.0	L		80.0		
WF	18				95.0	D		54.3		
WF	20				95.0	D		54.3		
SP	20				95.0	D		59.0		
IC	20				95.0	D		52.8		
PP	20				95.0	D		46.2		
PP	18				95.0	D		46.2		
RF	20				95.0	D		71.0		
WF	01				95.0	L		69.0		
IC	01				95.0	L		58.0		
PP	01				95.0	L		68.0		
SP	01				95.0	L		69.0		
RF	01				95.0	L		69.0		

CRUISE OF RECORD 2/21/2025

CRUISE#: 53883 SALE#: 53883
SALENAME: Bumblebee VERSION: 12.18.2024
RUN DATE & TIME: 2/21/2025 8:19:37 AM VOLUME LIBRARY VERSION: 11.18.2024

					PRIMARY PRODUCT				SECONDARY PRODUCT				
SPECIES	PROD	VOLUME EQUATION	STUMP HEIGHT	TOTAL CUBIC VOLUME	MIN TOP DIB	BDFT	CUFT	CORDS	MIN TOP DIB	BDFT	CUFT	CORDS	BIOMASS
IC	01	500WO2W081	1.0	NO	6.0	YES	YES	NO	1.0	YES	YES	NO	YES
PP	01	500WO2W122	1.0	NO	6.0	YES	YES	NO	1.0	YES	YES	NO	YES
SP	01	500WO2W117	1.0	NO	6.0	YES	YES	NO	1.0	YES	YES	NO	YES
WF	01	500WO2W015	1.0	NO	6.0	YES	YES	NO	1.0	YES	YES	NO	YES
IC	20	500WO2W081	0.5	NO	1.0	YES	YES	NO	1.0	YES	YES	NO	YES
PP	20	500WO2W122	0.5	NO	1.0	YES	YES	NO	1.0	YES	YES	NO	YES
SP	20	500WO2W117	0.5	NO	1.0	YES	YES	NO	1.0	YES	YES	NO	YES
WF	20	500WO2W015	0.5	NO	1.0	YES	YES	NO	1.0	YES	YES	NO	YES
WF	18	500WO2W015	1.0	NO	8.0	YES	YES	NO	1.0	YES	YES	NO	YES
PP	18	500WO2W122	1.0	NO	8.0	YES	YES	NO	1.0	YES	YES	NO	YES
RF	01	500WO2W020	1.0	NO	6.0	YES	YES	NO	1.0	YES	YES	NO	YES
RF	20	500WO2W020	0.5	NO	1.0	YES	YES	NO	1.0	YES	YES	NO	YES

CRUISE OF RECORD 2/21/2025

CRUISE#: 53883 SALE#: 53883
SALENAME: Bumblebee VERSION: 12.18.2024
RUN DATE & TIME: 2/21/2025 8:19:37 AM VOLUME LIBRARY VERSION: 11.18.2024

CRUISE NO.	STRATA NO.	CRUISE METHOD	STRATA ACRES	BAF	PLOT SIZE	NO. OF PLOTS	STRATA DESCRIPTION	DATE MMYYYY
53883	BM	FIX	450.50	0.00	15	20	Live Biomass	102024
53883	DS	FIX	565.80	0.00	2	26	Dead Standing	102024
53883	HZ	STR	93.00	0.00	0	0	Hazard Trees	102024
53883	SS	PCM	1457.70	10.00	0	99	Live Sawtimber	102024

CRUISE OF RECORD 2/21/2025

CRUISE#: 53883 SALE#: 53883
SALENAME: Bumblebee VERSION: 12.18.2024
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CRUISE NO.	CUTTING UNIT NO.	CUTTING UNIT ACRES	CUTTING UNIT DESCRIPTION	LOG METHOD	PAYMENT UNIT NO.
53883	800	17.00	General Forest	491	
53883	801	20.30	General Forest	491	
53883	802	57.70	General Forest	491	
53883	803	6.30	General Forest	491	
53883	804	32.30	General Forest	491	
53883	805	10.40	General Forest	491	
53883	806	30.40	General Forest	491	
53883	807	19.80	General Forest	491	
53883	808	11.90	General Forest	491	
53883	809	5.70	General Forest	491	
53883	810	17.80	General Forest	491	
53883	812	5.70	Territory	491	
53883	814	50.10	Territory	491	
53883	816	11.80	Territory	491	
53883	817	12.20	Territory	491	
53883	818	32.60	Territory	491	
53883	819	22.30	Territory	491	
53883	820	4.70	General Forest	491	
53883	821	4.90	General Forest	491	
53883	822	10.50	Territory	491	
53883	823	23.20	PAC	491	
53883	824	44.60	PAC	491	
53883	825	2.80	Territory	491	
53883	826	8.90	Territory	491	
53883	827	24.30	Territory	491	
53883	828	25.50	Territory	491	
53883	829	5.10	Territory	491	
53883	830	16.50	Territory	491	
53883	832	6.40	Territory	491	
53883	834	38.80	General Forest	491	
53883	838	26.30	General Forest	491	
53883	902	57.40	General Forest	491	
53883	904	23.80	Territory	491	
53883	906	24.30	Territory	491	
53883	908	14.90	Territory	491	
53883	910	76.30	Territory	491	
53883	911	6.10	Territory	491	
53883	912	7.40	Territory	491	
53883	913	3.20	Territory	491	

CRUISE OF RECORD 2/21/2025

CRUISE#: 53883 SALE#: 53883
SALENAME: Bumblebee VERSION: 12.18.2024
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CRUISE NO.	CUTTING UNIT NO.	CUTTING UNIT ACRES	CUTTING UNIT DESCRIPTION	LOG METHOD	PAYMENT UNIT NO.
53883	914	24.90	Territory	491	
53883	915	10.40	PAC	491	
53883	916	38.50	PAC	491	
53883	917	5.10	Territory	491	
53883	918	48.10	Territory	491	
53883	920	12.20	Territory	491	
53883	922	26.40	PAC	491	
53883	923	13.50	PAC	491	
53883	924	52.10	Territory	491	
53883	925	9.10	Territory	491	
53883	926	24.10	Territory	491	
53883	927	11.20	Territory	491	
53883	928	28.10	Territory	491	
53883	929	9.60	Territory	491	
53883	930	9.50	Territory	491	
53883	932	13.50	General Forest	491	
53883	934	10.40	General Forest	491	
53883	936	37.20	General Forest	491	
53883	937	32.30	General Forest	491	
53883	940	10.50	General Forest	491	
53883	942	7.50	General Forest	491	
53883	944	16.90	General Forest	491	
53883	945	9.20	General Forest	491	
53883	946	74.60	General Forest	491	
53883	948	42.30	General Forest	491	
53883	949	19.80	General Forest	491	
53883	950	5.10	General Forest	491	
53883	951	32.10	General Forest	491	
53883	952	3.30	General Forest	491	
53883	H1	27.00	Hazard Tree	491	
53883	H12	5.00	Hazard Tree	491	
53883	H18	1.00	Hazard Tree	491	
53883	H2	21.00	Hazard Tree	491	
53883	H3	9.00	Hazard Tree	491	
53883	H4	6.00	Hazard Tree	491	
53883	H5	19.00	Hazard Tree	491	
53883	H8	5.00	Hazard Tree	491	

TOTAL SALE ACRES: 1550.70

CRUISE OF RECORD 2/21/2025

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CRUISE NO.	CUTTING UNIT	STRATUM	PAYMENT UNIT
53883	800	SS	
53883	800	BM	
53883	800	DS	
53883	801	SS	
53883	801	BM	
53883	801	DS	
53883	802	SS	
53883	802	BM	
53883	802	DS	
53883	803	SS	
53883	804	SS	
53883	804	BM	
53883	804	DS	
53883	805	SS	
53883	805	BM	
53883	805	DS	
53883	806	SS	
53883	807	SS	
53883	808	SS	
53883	808	BM	
53883	808	DS	
53883	809	SS	
53883	809	BM	
53883	809	DS	
53883	810	SS	
53883	810	DS	
53883	812	SS	
53883	812	DS	
53883	814	SS	
53883	816	SS	
53883	816	BM	
53883	816	DS	
53883	817	SS	
53883	818	SS	
53883	819	SS	
53883	820	SS	
53883	820	DS	
53883	821	SS	
53883	821	DS	
53883	822	SS	

CRUISE OF RECORD 2/21/2025

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SALENAME: Bumblebee VERSION: 12.18.2024
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CRUISE NO.	CUTTING UNIT	STRATUM	PAYMENT UNIT
53883	823	SS	
53883	824	SS	
53883	824	BM	
53883	825	SS	
53883	826	SS	
53883	827	SS	
53883	827	DS	
53883	828	SS	
53883	829	SS	
53883	829	DS	
53883	830	SS	
53883	832	SS	
53883	832	DS	
53883	834	SS	
53883	838	SS	
53883	902	SS	
53883	904	SS	
53883	906	SS	
53883	908	SS	
53883	910	SS	
53883	911	SS	
53883	912	SS	
53883	913	SS	
53883	914	SS	
53883	915	SS	
53883	915	BM	
53883	915	DS	
53883	916	SS	
53883	916	BM	
53883	916	DS	
53883	917	SS	
53883	918	SS	
53883	920	SS	
53883	922	SS	
53883	922	DS	
53883	923	SS	
53883	923	BM	
53883	923	DS	
53883	924	SS	
53883	925	SS	

CRUISE OF RECORD 2/21/2025

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CRUISE NO.	CUTTING UNIT	STRATUM	PAYMENT UNIT
53883	926	SS	
53883	927	SS	
53883	928	SS	
53883	929	SS	
53883	930	SS	
53883	932	SS	
53883	934	SS	
53883	936	SS	
53883	936	DS	
53883	937	SS	
53883	937	BM	
53883	937	DS	
53883	940	SS	
53883	940	DS	
53883	942	SS	
53883	944	SS	
53883	944	DS	
53883	945	SS	
53883	945	BM	
53883	945	DS	
53883	946	SS	
53883	946	BM	
53883	946	DS	
53883	948	SS	
53883	949	SS	
53883	949	BM	
53883	949	DS	
53883	950	SS	
53883	950	BM	
53883	950	DS	
53883	951	SS	
53883	951	BM	
53883	951	DS	
53883	952	SS	
53883	952	BM	
53883	952	DS	
53883	H1	HZ	
53883	H12	HZ	
53883	H18	HZ	
53883	H2	HZ	

CRUISE OF RECORD 2/21/2025

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CRUISE NO.	CUTTING UNIT	STRATUM	PAYMENT UNIT
53883	H3	HZ	
53883	H4	HZ	
53883	H5	HZ	
53883	H8	HZ	

CRUISE OF RECORD 2/21/2025

CRUISE#: 53883 SALE#: 53883
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STRATUM	SAMPLE GROUP	FREQ	KZ	BIG BAF	SMALL FPS	DESCRIPTION
BM	BM	0	0	0		Live Trees 3.0" - 9.9" DBH
DS	CL	0	0	0		Dead Standing 22.0" - Upper Diameter Limit
DS	CM	0	0	0		Dead Standing 16.0" - 21.9" DBH
DS	CS	0	0	0		Dead Standing 10.0" - 15.9" DBH
HZ		10	0	0		Dead Road Hazard 12.0" - No Limit DBH
SS	FL	5	0	0		Live WF 22.0" - 39.9" DBH
SS	FM	4	0	0		Live WF 17.0" - 21.9" DBH
SS	FS	5	0	0		Live WF 10.0" - 16.9" DBH
SS	IC	5	0	0		Live IC 10.0" - 39.9" DBH
SS	PP	2	0	0		Live PP/JP 10.0" - 39.9" DBH
SS	SN	1	0	0		Nominal Species 10.0" - 39.9" DBH

CRUISE OF RECORD 2/21/2025

-- BOARD FOOT --
FOR CUT TREES ONLY -- PRIMARY PRODUCT ONLY
CRUISE#: 53883 SALE#: 53883
SALENAME: Bumblebee VERSION: 12.18.2024
RUN DATE & TIME: 2/21/2025 8:19:37 AM VOLUME LIBRARY VERSION: 11.18.2024

SPECIES	PROD CT	GROSS BF	TOTAL DEF%	NET BF	ESTIM TREES	GROSS BF/ ACRE	NET BF/ ACRE	TREES/ ACRE	QUAD MEAN DBH	MEAN HT1	NET BF/ TREE	16'LOGS/ GROSS MBF	NET LOG SCALE VALUE/ MBF
IC	01	1632595	11.0	1452833	17294	1053	937	11.2	15.9	52.6	84	24.6	
IC	20	49133	0.0	49133	5089	32	32	3.3	7.5	24.9	10	171.4	
PP	01	1059850	8.2	972942	3650	683	627	2.4	17.2	73.0	267	11.6	
PP	18	24211	0.0	24211	99	16	16	0.1	17.5	92.1	246	16.3	
PP	20	79843	0.0	79843	2212	51	51	1.4	8.8	35.9	36	65.5	
RF	01	84692	1.7	83240	242	55	54	0.2	20.9	84.0	344	11.4	
RF	20	8607	0.0	8607	763	6	6	0.5	6.2	24.6	11	158.3	
SP	01	124327	16.7	103616	506	80	67	0.3	17.9	70.8	205	13.5	
SP	20	29528	0.0	29528	1482	19	19	1.0	8.3	34.6	20	122.2	
WF	01	8011010	7.1	7442414	24431	5166	4799	15.8	18.9	76.6	305	11.0	
WF	18	1617496	26.5	1188060	3913	1043	766	2.5	20.8	91.8	304	10.0	
WF	20	225615	3.7	217294	17328	145	140	11.2	6.9	27.2	13	141.5	
TOTALS/AVE		12946906	10.0	11651721	77010	8349	7514	49.7	15.1	54.8	151	16.3	N/A

CRUISE OF RECORD 2/21/2025

-- CUBIC FOOT --
FOR CUT TREES ONLY -- PRIMARY PRODUCT ONLY
CRUISE#: 53883 SALE#: 53883
SALENAME: Bumblebee VERSION: 12.18.2024
RUN DATE & TIME: 2/21/2025 8:19:37 AM VOLUME LIBRARY VERSION: 11.18.2024

SPECIES	PROD CT	GROSS CF	TOTAL DEF%	NET CF	ESTIM TREES	GROSS CF/ ACRE	NET CF/ ACRE	TREES/ ACRE	QUAD MEAN DBH	MEAN HT1	NET CF/ TREE	16'LOGS/ GROSS CCF	NET LOG SCALE VALUE/ CCF
IC	01	344680	10.2	309594	17294	222	200	11.2	15.9	52.6	18	11.6	
IC	20	13536	0.0	13536	5089	9	9	3.3	7.5	24.9	3	62.2	
PP	01	177689	8.3	162957	3650	115	105	2.4	17.2	73.0	45	6.9	
PP	18	4584	0.0	4584	99	3	3	0.1	17.5	92.1	47	8.6	
PP	20	16949	0.0	16949	2212	11	11	1.4	8.8	35.9	8	30.9	
RF	01	15438	2.0	15124	242	10	10	0.2	20.9	84.0	62	6.3	
RF	20	1868	0.0	1868	763	1	1	0.5	6.2	24.6	2	72.9	
SP	01	21738	16.9	18067	506	14	12	0.3	17.9	70.8	36	7.7	
SP	20	6538	0.0	6538	1482	4	4	1.0	8.3	34.6	4	55.2	
WF	01	1337290	7.0	1244088	24431	862	802	15.8	18.9	76.6	51	6.6	
WF	18	274113	28.8	195174	3913	177	126	2.5	20.8	91.8	50	5.9	
WF	20	56349	3.6	54323	17328	36	35	11.2	6.9	27.2	3	56.7	
TOTALS/AVE		2270770	10.0	2042802	77010	1464	1317	49.7	15.1	54.8	27	9.3	N/A

CRUISE OF RECORD 2/21/2025

FOR CUT TREES ONLY
CRUISE#: 53883 SALE#: 53883
SALENAME: Bumblebee VERSION: 12.18.2024
RUN DATE & TIME: 2/21/2025 8:19:37 AM VOLUME LIBRARY VERSION: 11.18.2024

TABLE 1 - REPORT FOR SPECIES: IC
PRODUCT: 01

LOG DIB CLASS	# OF LOGS	GROSS BDFT	NET BDFT	GROSS CUFT	NET CUFT
6	16428.3	193393.1	188025.8	57379.0	55715.0
7	1348.4	13483.7	6741.9	4180.0	2022.6
8	5549.5	110989.3	103629.4	29216.1	27437.6
9	6667.5	224631.6	196237.0	53811.4	47660.1
10	1511.6	80596.2	72759.6	16788.8	15063.7
11	2744.8	177635.3	155944.8	37269.9	32824.3
12	1002.9	76383.5	66721.8	15377.0	13431.8
13	1578.7	152533.7	149686.8	28714.9	28207.8
14	580.2	63818.1	57649.1	12780.5	11514.7
15	698.2	87462.0	79847.0	15210.5	13915.6
16	434.4	66150.4	62203.0	11820.2	11107.7
17	387.7	69794.7	65028.0	11902.1	11064.8
18	371.7	78059.8	71740.7	13152.0	12090.2
19	198.2	47579.3	43812.6	7692.0	7077.4
20	167.6	46937.9	21122.1	7493.3	3369.5
21	306.1	91835.1	78202.7	13965.1	11921.7
24	128.3	51311.0	33480.5	7927.6	5169.6
TOTALS	40104.2	1632594.9	1452832.8	344680.3	309594.1

CRUISE OF RECORD 2/21/2025

TABLE 2 - REPORT FOR SPECIES: IC
PRODUCT: 20

LOG DIB CLASS	# OF LOGS	GROSS BDFT	NET BDFT	GROSS CUFT	NET CUFT
1	4751.6	0.0	0.0	2579.4	2579.4
3	1013.6	0.0	0.0	979.8	979.8
4	1275.0	12750.2	12750.2	2041.1	2041.1
5	599.3	11114.2	11114.2	1949.1	1949.1
6	348.5	6099.3	6099.3	1603.3	1603.3
7	87.1	2614.0	2614.0	566.4	566.4
8	87.1	2614.0	2614.0	705.8	705.8
9	174.3	6970.7	6970.7	1707.8	1707.8
12	87.1	6970.7	6970.7	1402.8	1402.8
TOTALS	8423.7	49133.0	49133.0	13535.5	13535.5

CRUISE OF RECORD 2/21/2025

FOR CUT TREES ONLY
CRUISE#: 53883 SALE#: 53883
SALENAME: Bumblebee VERSION: 12.18.2024
RUN DATE & TIME: 2/21/2025 8:19:37 AM VOLUME LIBRARY VERSION: 11.18.2024

TABLE 3 - REPORT FOR SPECIES: PP
PRODUCT: 01

LOG DIB CLASS	# OF LOGS	GROSS BDFT	NET BDFT	GROSS CUFT	NET CUFT
6	3378.9	40232.5	33139.4	12504.3	10199.2
8	1408.1	32798.3	32798.3	7047.7	7047.7
9	1641.4	51252.7	38165.5	11392.5	9140.1
10	180.8	10845.3	10483.8	2114.8	2024.5
11	790.1	47433.6	45350.5	10053.0	9629.0
12	568.5	43687.3	42041.5	8746.5	8411.4
13	180.8	18075.5	17352.5	3109.0	2982.5
14	849.8	90450.3	83804.6	16977.0	15691.0
15	508.7	71223.2	64751.0	11395.7	10374.6
16	134.1	21457.3	17066.8	3607.5	2862.3
17	1075.8	193640.9	186110.4	29987.2	28803.9
18	209.9	44080.8	42401.6	6633.1	6360.2
19	763.8	183320.4	169995.5	25969.2	24143.4
21	207.0	62098.0	59434.8	8614.6	8246.2
22	138.5	45698.9	38025.6	6255.6	5211.9
23	132.7	50407.3	44680.0	6525.2	5800.0
24	64.1	25655.5	24629.3	3360.9	3226.2
25	59.8	27492.2	22711.0	3394.7	2803.0
TOTALS	12292.8	1059850.0	972941.9	177688.5	162957.0

CRUISE OF RECORD 2/21/2025

TABLE 4 - REPORT FOR SPECIES: PP
PRODUCT: 18

LOG DIB CLASS	# OF LOGS	GROSS BDFT	NET BDFT	GROSS CUFT	NET CUFT
8	98.5	1970.2	1970.2	443.3	443.3
10	98.5	2955.2	2955.2	797.2	797.2
12	87.1	6970.7	6970.7	1289.6	1289.6
13	11.4	1137.5	1137.5	195.7	195.7
14	87.1	9584.7	9584.7	1603.3	1603.3
15	11.4	1592.5	1592.5	254.8	254.8
TOTALS	394.0	24210.7	24210.7	4583.7	4583.7

CRUISE OF RECORD 2/21/2025

TABLE 5 - REPORT FOR SPECIES: PP
PRODUCT: 20

LOG DIB CLASS	# OF LOGS	GROSS BDFT	NET BDFT	GROSS CUFT	NET CUFT
1	2212.2	0.0	0.0	970.9	970.9
3	512.1	0.0	0.0	614.6	614.6
4	348.5	3485.3	3485.3	758.1	758.1
5	425.0	5121.4	5121.4	954.6	954.6
6	512.1	10242.8	10242.8	2314.4	2314.4
7	348.5	10456.0	10456.0	2204.5	2204.5
8	174.3	5228.0	5228.0	1176.3	1176.3
9	87.1	3485.3	3485.3	766.8	766.8
10	261.4	15684.0	15684.0	2683.7	2683.7
11	174.3	12198.6	12198.6	2117.3	2117.3
12	174.3	13941.3	13941.3	2387.4	2387.4
TOTALS	5229.9	79842.8	79842.8	16948.6	16948.6

CRUISE OF RECORD 2/21/2025

FOR CUT TREES ONLY
CRUISE#: 53883 SALE#: 53883
SALENAME: Bumblebee VERSION: 12.18.2024
RUN DATE & TIME: 2/21/2025 8:19:37 AM VOLUME LIBRARY VERSION: 11.18.2024

TABLE 6 - REPORT FOR SPECIES: RF
PRODUCT: 01

LOG DIB CLASS	# OF LOGS	GROSS BDFT	NET BDFT	GROSS CUFT	NET CUFT
6	242.0	4839.6	4839.6	1427.7	1403.5
10	242.0	14518.7	14276.7	3121.5	3048.9
14	242.0	26617.6	26133.6	4767.0	4670.2
16	242.0	38716.5	37990.6	6122.0	6001.1
TOTALS	967.9	84692.4	83240.5	15438.2	15123.6

CRUISE OF RECORD 2/21/2025

FOR CUT TREES ONLY
CRUISE#: 53883 SALE#: 53883
SALENAME: Bumblebee VERSION: 12.18.2024
RUN DATE & TIME: 2/21/2025 8:19:37 AM VOLUME LIBRARY VERSION: 11.18.2024

TABLE 7 - REPORT FOR SPECIES: RF
PRODUCT: 20

LOG DIB CLASS	# OF LOGS	GROSS BDFT	NET BDFT	GROSS CUFT	NET CUFT
1	762.9	0.0	0.0	322.6	322.6
4	425.0	4250.1	4250.1	613.5	613.5
6	87.1	1742.7	1742.7	383.4	383.4
8	87.1	2614.0	2614.0	548.9	548.9
TOTALS	1362.2	8606.7	8606.7	1868.4	1868.4

CRUISE OF RECORD 2/21/2025

TABLE 8 - REPORT FOR SPECIES: SP
PRODUCT: 01

LOG DIB CLASS	# OF LOGS	GROSS BDFT	NET BDFT	GROSS CUFT	NET CUFT
6	438.8	5553.8	5437.2	1701.6	1658.4
8	96.2	1924.2	1828.0	519.5	500.3
9	342.6	11442.9	4278.3	2322.1	1041.5
10	96.2	5772.5	5580.1	1125.6	1087.2
11	183.7	10845.3	2387.7	2035.2	502.0
12	51.0	4081.6	3928.5	821.4	790.8
13	128.3	11865.7	10230.1	2100.5	1821.5
14	35.0	3148.6	3008.7	517.8	496.8
15	51.0	7142.7	6836.6	1224.5	1173.4
16	67.1	10728.7	10326.3	1858.3	1784.5
18	51.0	10714.1	10305.9	1612.2	1545.9
19	35.0	8396.4	8046.5	1290.9	1238.5
20	32.1	8979.4	8626.7	1298.8	1247.5
22	35.0	11545.0	11090.2	1693.3	1626.8
23	32.1	12186.4	11705.3	1616.3	1552.2
TOTALS	1674.9	124327.2	103616.2	21738.1	18067.3

CRUISE OF RECORD 2/21/2025

FOR CUT TREES ONLY
CRUISE#: 53883 SALE#: 53883
SALENAME: Bumblebee VERSION: 12.18.2024
RUN DATE & TIME: 2/21/2025 8:19:37 AM VOLUME LIBRARY VERSION: 11.18.2024

TABLE 9 - REPORT FOR SPECIES: SP
PRODUCT: 20

LOG DIB CLASS	# OF LOGS	GROSS BDFT	NET BDFT	GROSS CUFT	NET CUFT
1	1482.2	0.0	0.0	788.0	788.0
3	762.9	0.0	0.0	619.0	619.0
4	337.9	3378.8	3378.8	371.7	371.7
5	762.9	15257.7	15257.7	2502.2	2502.2
6	43.6	435.7	435.7	196.0	196.0
8	87.1	2614.0	2614.0	627.4	627.4
10	130.7	7842.0	7842.0	1433.3	1433.3
TOTALS	3607.2	29528.1	29528.1	6537.6	6537.6

CRUISE OF RECORD 2/21/2025

TABLE 10 - REPORT FOR SPECIES: WF
PRODUCT: 01

LOG DIB CLASS	# OF LOGS	GROSS BDFT	NET BDFT	GROSS CUFT	NET CUFT
6	20279.5	223552.9	208540.0	77016.3	71784.1
8	10473.6	209471.5	202753.0	55613.0	53770.9
9	6706.9	212314.0	198385.7	46999.2	43975.9
10	9126.7	504961.9	469044.1	94442.2	87542.0
11	5553.8	337049.4	320182.4	68849.4	65143.3
12	3320.6	257488.1	221692.9	48833.0	42621.1
13	4067.0	365008.1	342867.1	67211.6	63223.5
14	5978.0	613997.8	562772.8	111699.2	102400.4
15	2913.9	396567.3	379685.7	62924.5	60347.0
16	4992.6	773368.2	734756.6	122802.3	116516.7
17	3701.1	663341.0	632780.3	105611.2	100544.9
18	1854.2	383841.6	357484.9	57341.3	53232.4
19	2609.3	626227.9	561372.0	88699.6	79616.7
20	1979.6	554275.9	512167.3	77482.7	71704.6
21	1434.4	430313.1	393625.7	62115.1	56815.6
22	644.3	212620.1	201734.0	29460.8	27924.4
23	906.7	344542.0	319758.2	44318.2	41106.6
24	881.9	352763.4	331154.5	48040.1	45098.2
25	390.7	179705.3	153210.1	22444.5	19163.5
26	368.8	184399.1	165688.0	22607.3	20302.6
27	336.7	185200.8	172759.3	22778.0	21253.9
TOTALS	88520.3	8011009.4	7442414.5	1337289.5	1244088.3

CRUISE OF RECORD 2/21/2025

TABLE 11 - REPORT FOR SPECIES: WF
PRODUCT: 18

LOG DIB CLASS	# OF LOGS	GROSS BDFT	NET BDFT	GROSS CUFT	NET CUFT
8	3117.9	62680.2	40896.9	18753.5	12083.5
9	566.4	16991.0	7842.0	4173.7	1882.1
10	1428.3	48189.4	22920.8	11381.3	5700.2
11	1657.5	92799.1	57510.2	19203.9	11923.9
12	1405.5	107212.5	49704.6	20322.3	9426.3
13	1841.2	181067.6	149699.6	31344.1	25623.8
14	1439.6	157810.0	109102.6	28102.3	19097.1
15	1013.4	141876.9	86983.0	22806.4	13744.5
16	784.2	123729.1	93189.0	19304.4	14459.8
17	969.8	174571.2	122596.3	27715.3	19363.6
18	566.4	118936.8	78812.0	17378.7	11362.2
19	609.9	146383.8	142332.1	20885.8	20323.8
20	490.6	137370.1	120466.3	18109.7	15800.7
21	87.1	26140.0	26140.0	3694.4	3694.4
22	142.1	46884.7	45011.3	6371.2	6122.9
24	87.1	34853.3	34853.3	4565.8	4565.8
TOTALS	16207.0	1617495.7	1188059.7	274112.7	195174.4

CRUISE OF RECORD 2/21/2025

TABLE 12 - REPORT FOR SPECIES: WF
PRODUCT: 20

LOG DIB CLASS	# OF LOGS	GROSS BDFT	NET BDFT	GROSS CUFT	NET CUFT
1	16652.7	0.0	0.0	8950.6	8880.9
3	4697.3	0.0	0.0	3778.5	3778.5
4	3062.2	30621.9	30621.9	4600.7	4600.7
5	3737.9	49258.3	49258.3	10251.3	10251.3
6	904.2	17213.5	15470.8	4144.2	3699.8
7	653.5	19605.0	19430.7	3968.9	3934.1
8	653.5	19605.0	18298.0	4744.4	4391.5
9	566.4	22654.6	19169.3	4835.9	3982.0
10	479.2	28754.0	28754.0	4731.3	4731.3
11	392.1	27447.0	26270.7	4552.7	4361.0
12	130.7	10456.0	10020.3	1790.6	1712.2
TOTALS	31929.8	225615.2	217294.0	56349.1	54323.3

CRUISE OF RECORD 2/21/2025

PRIMARY PRODUCT VOLUME
FOR CUT TREES ONLY
CRUISE#: 53883 SALE#: 53883
SALENAME: Bumblebee VERSION: 12.18.2024
RUN DATE & TIME: 2/21/2025 8:19:37 AM VOLUME LIBRARY VERSION: 11.18.2024

STRATA	PROD CT	UOM	******** PRIMARY PRODUCT GROSS VOLUME ********** VOLUME*	ERROR	****** 95% CONFIDENCE ***** INTERVAL FROM	TO	******* PRIMARY PRODUCT NET VOLUME ******** VOLUME*	ERROR	****** 95% CONFIDENCE ****** INTERVAL FROM	TO
BM	20	03	36929.7	44.60	20459	53400	36929.7	44.60	20459	53400
DS	18	03	274164.6	51.89	131909	416420	195226.3	46.92	103631	286822
DS	20	03	58309.5	87.77	7132	109487	56283.7	90.07	5589	106978
HZ	18	03	4531.8	66.81	1504	7560	4531.8	66.81	1504	7560
SS	01	03	1896834.7	17.93	1556653	2237016	1749830.3	18.05	1434046	2065614
					---------- AGGREGATED BY PRODUCT ----------					
	20	03	95239.3	56.45	41476	149002	93213.4	57.18	39910	146517
	18	03	278696.4	51.05	136409	420984	199758.1	45.88	108112	291404
	01	03	1896834.7	17.93	1556653	2237016	1749830.3	18.05	1434046	2065614
					-------- AGGREGATED BY UNIT OF MEASURE --------					
		03	2270770.4	16.41	1898132	2643409	2042801.8	16.31	1709696	2375908
					---------- AGGREGATED BY STRATA ----------					
BM		03	36929.7	44.60	20459	53400	36929.7	44.60	20459	53400
DS		03	332474.1	45.47	181293	483655	251510.0	41.62	146821	356199
HZ		03	4531.8	66.81	1504	7560	4531.8	66.81	1504	7560
SS		03	1896834.7	17.93	1556653	2237016	1749830.3	18.05	1434046	2065614

* UOM DETERMINES VALUES USED IN CALCULATION UNDER VOLUME

CRUISE OF RECORD 2/21/2025

SECONDARY PRODUCT VOLUME
FOR CUT TREES ONLY
CRUISE#: 53883 SALE#: 53883
SALENAME: Bumblebee VERSION: 12.18.2024
RUN DATE & TIME: 2/21/2025 8:19:37 AM VOLUME LIBRARY VERSION: 11.18.2024

STRATA	PRODUCT	UOM	******** SECONDARY PRODUCT GROSS VOLUME ********** VOLUME*	ERROR	****** 95% CONFIDENCE ***** INTERVAL FROM	TO	******* SECONDARY PRODUCT NET VOLUME ******** VOLUME*	ERROR	****** 95% CONFIDENCE ****** INTERVAL FROM	TO
DS	20	03	17104.2	50.88	8401	25807	14769.1	45.15	8101	21437
HZ	08	03	431.1	34.06	284	578	431.1	34.06	284	578
SS	20	03	116577.5	19.56	93777	139378	115052.2	19.53	92581	137523
					---------- AGGREGATED BY PRODUCT ----------					
	20	03	133681.8	18.26	109277	158087	129821.3	18.05	106382	153260
	08	03	431.1	34.06	284	578	431.1	34.06	284	578
					-------- AGGREGATED BY UNIT OF MEASURE --------					
		03	134112.9	18.20	109707	158518	130252.4	18.00	106813	153692
					---------- AGGREGATED BY STRATA ----------					
DS		03	17104.2	50.88	8401	25807	14769.1	45.15	8101	21437
HZ		03	431.1	34.06	284	578	431.1	34.06	284	578
SS		03	116577.5	19.56	93777	139378	115052.2	19.53	92581	137523

* UOM DETERMINES VALUES USED IN CALCULATION UNDER VOLUME

CRUISE OF RECORD 2/21/2025

TOTAL VOLUME
FOR CUT TREES ONLY
CRUISE#: 53883 SALE#: 53883
SALENAME: Bumblebee VERSION: 12.18.2024
RUN DATE & TIME: 2/21/2025 8:19:37 AM VOLUME LIBRARY VERSION: 11.18.2024

STRATA	PROD CT	UOM	TOTAL GROSS VOLUME VOLUME*	ERROR	95% CONFIDENCE INTERVAL FROM	TO	TOTAL NET VOLUME VOLUME*	ERROR	95% CONFIDENCE INTERVAL FROM	TO
					AGGREGATED BY PRODUCT					
	20	03	228921.0	25.79	169878	287964	223034.7	26.11	164806	281264
	18	03	278696.4	51.05	136409	420984	199758.1	45.88	108112	291404
	01	03	1896834.7	17.93	1556653	2237016	1749830.3	18.05	1434046	2065614
	08	03	431.1	34.06	284	578	431.1	34.06	284	578
					AGGREGATED BY UNIT OF MEASURE					
		03	2404883.3	15.53	2031446	2778320	2173054.1	15.37	1839124	2506984
					AGGREGATED BY STRATA					
BM		03	36929.7	44.60	20459	53400	36929.7	44.60	20459	53400
DS		03	349578.4	43.32	198147	501010	266279.1	39.40	161378	371180
HZ		03	4962.9	61.08	1931	7994	4962.9	61.08	1931	7994
SS		03	2013412.2	16.93	1672467	2354357	1864882.4	16.98	1548300	2181465

* UOM DETERMINES VALUES USED IN CALCULATION UNDER VOLUME

CRUISE OF RECORD 2/21/2025

FOR CUT TREES ONLY
CRUISE#: 53883 SALE#: 53883
SALENAME: Bumblebee VERSION: 12.18.2024
RUN DATE & TIME: 2/21/2025 8:19:37 AM VOLUME LIBRARY VERSION: 11.18.2024

STRATA	PROD	PROD SOURCE	UOM	EST. NO. OF TREES	GROSS BDFT	GROSS CUFT	NET BDFT	NET CUFT	CORDS
BM	20	P	03	53	263	82	263	82	0.0
DS	18	P	03	7	2856	485	2097	345	0.0
DS	20	S	03		87	30	70	26	0.0
DS	20	P	03	6	485	103	470	99	0.0
HZ	18	P	03	<1	278	49	278	49	0.0
HZ	08	S	03		15	5	15	5	0.0
SS	01	P	03	32	7486	1301	6898	1200	0.0
SS	20	S	03		183	80	179	79	0.0

PRODUCT SOURCE KEY:

P = PRIMARY PRODUCT
S = SECONDARY PRODUCT
R = RECOVERABLE PRODUCT

The following items are not reported and/or calculated for secondary or recovered products but are shown here as blank so the associated volumes can be reported: Number of measured trees, Quad mean DBH, Mean DBH, Mean height(s), Average defect, any Ratio, Estimated number of trees.

CRUISE OF RECORD 2/21/2025

FOR CUT TREES ONLY
CRUISE#: 53883 SALE#: 53883
SALENAME: Bumblebee VERSION: 12.18.2024
RUN DATE & TIME: 2/21/2025 8:19:37 AM VOLUME LIBRARY VERSION: 11.18.2024

STRATA	PROD	SOURCE	UOM	# OF TREES MEASURED	# OF TREES TALLIED	QUAD MEAN DBH	MEAN DBH	MEAN TOT HGT	AVG DEFT % BDFT	GROSS NET % CUFT	BDFT RATIO	CUFT RATIO	EST. # OF TREES	STRATA LEVEL VOLUME GROSS BDFT	GROSS CUFT	NET BDFT	NET CUFT	CORDS
BM 20	P	03		70	70	6.1	5.8	23.5	0	0	3.202	3.202	23651	118256	36930	118256	36930	0.0
DS 18	P	03		90	90	20.7	20.5	92.0	26	28	5.894	6.077	3921	1615885	274165	1186449	195226	0.0
DS 20	S	03												49230	17104	39428	14769	0.0
DS 20	P	03		74	74	13.0	12.8	59.4	3	3	4.707	4.729	3224	274470	58310	266148	56284	0.0
HZ 18	P	03		8	91	18.1	17.6	81.8	0	0	5.698	5.698	91	25821	4532	25821	4532	0.0
HZ 08	S	03												1365	431	1365	431	0.0
SS 01	P	03		129	534	17.7	16.8	67.3	7	7	5.753	5.746	46123	10912474	1896835	10055046	1749830	0.0
SS 20	S	03												266263	116578	260666	115052	0.0

TOTALS ------

PRODUCT	PRODUCT SOURCE	QUAD MEAN DBH	MEAN DBH	MEAN TOT HGT	GROSS BF/CF RATIO	NET BF/CF RATIO	EST. # OF TREES	VOLUME GROSS BDFT	VOLUME GROSS CUFT	VOLUME NET BDFT	VOLUME NET CUFT	CORDS
20	P	7.3	6.6	27.8	4.1236	4.1239	26875	392726	95239	384405	93213	0.0
18	P	20.7	20.4	91.8	5.8907	6.0687	4012	1641706	278696	1212270	199758	0.0
20	S							315494	133682	300094	129821	0.0
08	S							1365	431	1365	431	0.0
01	P	17.7	16.8	67.3	5.7530	5.7463	46123	10912474	1896835	10055046	1749830	0.0
		15.1	13.4	54.8	5.5153	5.5006	77010	13263765	2404883	11953180	2173054	0.0

PRODUCT SOURCE KEY:

P = PRIMARY PRODUCT
S = SECONDARY PRODUCT
R = RECOVERABLE PRODUCT

The following items are not reported and/or calculated for secondary or recovered products but are shown here as blank so the associated volumes can be reported: Number of measured trees, Quad mean DBH, Mean DBH, Mean height(s), Average defect, any Ratio, Estimated number of trees.

CRUISE OF RECORD 2/21/2025

FOR CUT TREES ONLY
CRUISE#: 53883 SALE#: 53883
SALENAME: Bumblebee VERSION: 12.18.2024
RUN DATE & TIME: 2/21/2025 8:19:37 AM VOLUME LIBRARY VERSION: 11.18.2024

STRATUM: BM GREEN TONS

SPECIES	PRIMARY PRODUCT	SECONDARY PRODUCT	BIOMASS COMPONENTS TIP	BRANCHES	FOLIAGE	STEM WGT MERCH*	TOTAL**
IC	222.0	0.0	0.3	255.8	124.7	491.6	602.9
PP	124.5	0.0	0.2	59.0	42.2	189.8	226.0
RF	29.0	0.0	0.2	18.2	14.2	49.1	61.6
SP	143.8	0.0	0.1	53.4	32.7	203.4	230.0
WF	975.4	0.0	2.7	119.1	252.3	1144.2	1349.5
ALL SPECIES	1494.7	0.0	3.5	505.6	466.1	2078.0	2470.0

* WHOLE TREE (ABOVE GROUND) BIOMASS AS CALCULATED USING THE TOT TREE EQN SPECIFIED IN DEFAULTS (REGIONAL).
** TOTAL IS THE ADDITION OF PRIMARY PRODUCT, SECONDARY PRODUCT, TIP, BRANCHES AND FOLIAGE.

CRUISE OF RECORD 2/21/2025

FOR CUT TREES ONLY
CRUISE#: 53883 SALE#: 53883
SALENAME: Bumblebee VERSION: 12.18.2024
RUN DATE & TIME: 2/21/2025 8:19:37 AM VOLUME LIBRARY VERSION: 11.18.2024

STRATUM: DS GREEN TONS

SPECIES	PRIMARY PRODUCT	SECONDARY PRODUCT	BIOMASS COMPONENTS TIP	BRANCHES	FOLIAGE	STEM WGT MERCH*	TOTAL**
IC	203.9	0.0	0.1	79.8	0.0	290.4	283.8
PP	387.4	9.6	0.1	109.5	0.0	516.0	506.6
RF	39.1	0.0	0.0	7.8	0.0	47.8	46.8
SP	77.2	0.0	0.0	25.5	0.0	104.5	102.7
WF	7809.4	429.9	83.7	1248.7	0.0	8798.9	9571.8
ALL SPECIES	8517.0	439.5	83.9	1471.3	0.0	9757.5	10511.7

* WHOLE TREE (ABOVE GROUND) BIOMASS AS CALCULATED USING THE TOT TREE EQN SPECIFIED IN DEFAULTS (REGIONAL).
** TOTAL IS THE ADDITION OF PRIMARY PRODUCT, SECONDARY PRODUCT, TIP, BRANCHES AND FOLIAGE.

CRUISE OF RECORD 2/21/2025

FOR CUT TREES ONLY
CRUISE#: 53883 SALE#: 53883
SALENAME: Bumblebee VERSION: 12.18.2024
RUN DATE & TIME: 2/21/2025 8:19:37 AM VOLUME LIBRARY VERSION: 11.18.2024

STRATUM: HZ GREEN TONS

SPECIES	PRIMARY PRODUCT	SECONDARY PRODUCT	BIOMASS COMPONENTS TIP	BRANCHES	FOLIAGE	STEM WGT MERCH*	TOTAL**
PP	13.2	0.9	0.0	4.8	0.0	19.5	19.0
WF	101.4	10.0	0.0	18.5	0.0	127.0	129.9
ALL SPECIES	114.6	11.0	0.0	23.3	0.0	146.5	148.8

* WHOLE TREE (ABOVE GROUND) BIOMASS AS CALCULATED USING THE TOT TREE EQN SPECIFIED IN DEFAULTS (REGIONAL).
** TOTAL IS THE ADDITION OF PRIMARY PRODUCT, SECONDARY PRODUCT, TIP, BRANCHES AND FOLIAGE.

CRUISE OF RECORD 2/21/2025

FOR CUT TREES ONLY
CRUISE#: 53883 SALE#: 53883
SALENAME: Bumblebee VERSION: 12.18.2024
RUN DATE & TIME: 2/21/2025 8:19:37 AM VOLUME LIBRARY VERSION: 11.18.2024

STRATUM: SS GREEN TONS

SPECIES	PRIMARY PRODUCT	SECONDARY PRODUCT	BIOMASS COMPONENTS TIP	BRANCHES	FOLIAGE	STEM WGT MERCH*	TOTAL**
IC	9495.9	1441.4	6.6	3238.0	1396.4	14577.1	15578.3
PP	5739.3	336.2	1.4	1591.9	498.9	6977.4	8167.8
RF	506.0	13.8	0.1	52.1	27.1	316.8	599.1
SP	712.5	50.7	0.2	224.0	50.9	1013.1	1038.2
WF	43829.7	2891.0	10.2	6679.1	2827.2	49311.4	56237.3
ALL SPECIES	60283.4	4733.2	18.5	11785.1	4800.5	72195.8	81620.7

* WHOLE TREE (ABOVE GROUND) BIOMASS AS CALCULATED USING THE TOT TREE EQN SPECIFIED IN DEFAULTS (REGIONAL).
** TOTAL IS THE ADDITION OF PRIMARY PRODUCT, SECONDARY PRODUCT, TIP, BRANCHES AND FOLIAGE.

CRUISE OF RECORD 2/21/2025

FOR CUT TREES ONLY
CRUISE#: 53883 SALE#: 53883
SALENAME: Bumblebee VERSION: 12.18.2024
RUN DATE & TIME: 2/21/2025 8:19:37 AM VOLUME LIBRARY VERSION: 11.18.2024

STRATUM: OVERALL SALE SUMMARY GREEN TONS

SPECIES	PRIMARY PRODUCT	SECONDARY PRODUCT	BIOMASS COMPONENTS TIP	BRANCHES	FOLIAGE	STEM WGT MERCH*	TOTAL**
IC	9921.8	1441.4	7.0	3573.6	1521.1	15359.0	16465.0
PP	6264.5	346.8	1.7	1765.3	541.1	7702.7	8919.4
RF	574.0	13.8	0.3	78.0	41.3	413.6	707.5
SP	933.4	50.7	0.3	302.9	83.6	1321.0	1370.9
WF	52715.8	3331.0	96.7	8065.4	3079.5	59381.4	67288.4
ALL SPECIES	70409.6	5183.6	106.0	13785.3	5266.7	84177.8	94751.2

* WHOLE TREE (ABOVE GROUND) BIOMASS AS CALCULATED USING THE TOT TREE EQN SPECIFIED IN DEFAULTS (REGIONAL).
** TOTAL IS THE ADDITION OF PRIMARY PRODUCT, SECONDARY PRODUCT, TIP, BRANCHES AND FOLIAGE.

CRUISE OF RECORD 2/21/2025