



**Verified Carbon
Standard**

FAMILY FOREST CARBON PROJECT MONITORING REPORT



**Forest Carbon
Works**

Project title	Family Forest Carbon Project
Project ID	4268
Monitoring period	30 September 2023 – 31 May 2024
Original date of issue	23 August 2024
Most recent date of issue	24 January 2025
Version	2.8
VCS Standard Version	4.7
Prepared by	Forest Carbon Works, PBC

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1. PROJECT DETAILS

1.1 Summary Description of the Implementation Status of the Project

The Family Forest Carbon Project is a grouped project developed under the Verified Carbon Standard (VCS) and the VM0003 Methodology v1.3 for improved forest management (IFM) through extension of rotation age (ERA). The project proponent, Forest Carbon Works (FCW), partners with private forestland owners across the country to protect their valuable forest resources with long-term conservation agreements lasting a minimum of 60 years. Project activities are not mandated by any law, statute, or other regulatory framework.

Prior to the project implementation, these forests were subject to baseline silviculture for the region, which was a form of extractive even-aged management (Annex H, Annex Z). The project transitions these systems into uneven-aged management regimes using methodology-approved harvesting techniques such as patch cuts, continuous thinning, or group selection. See the Project Description Section 1.11 for details on project-scenario management regimes. Management is designed to maximize carbon storage, improve forest vigor and to transition forests to an uneven-aged structure, increasing the average age of standing trees to sequester more carbon than currently exists.

The geographic areas eligible under this project are the entire contiguous United States and southeast Alaska (see Project Location section 1.8). The project includes 132 project activity instances (PAIs), with 70 added during this monitoring period. The total area of the project is 25,870.4 hectares (63,927.25 acres) in the USA states of Alabama, Arkansas, California, Florida, Georgia, Kansas, Kentucky, Louisiana, Maine, Michigan, Minnesota, Mississippi, Montana, Missouri, New York, New Hampshire, North Carolina, Ohio, Oregon, Pennsylvania, Rhode Island, Tennessee, Virginia, Vermont, Washington, Wisconsin, and West Virginia (Annex C). Exact project locations are detailed in Section 1.8. The start date of the project is 14 July 2020, while the start date of this monitoring period is 30 September 2023. PAIs added during this monitoring period shall have an implementation date on or after 30 September 2023, and the end of the monitoring period is 31 May 2024. Implementation dates of each project instance of the project to date are listed in Table 1 below, with the first instance of implementation occurring on 14 July 2020, the start date of the project.

No commercial harvesting has occurred during this monitoring period (Annex AS).

Total GHG emission reductions and removals for this monitoring period are 100,563 tCO₂e.

Table 1A: PAI Implementation Dates

PAI Number	Implementation Date	State
1024	14 July 2020	Washington
1007	14 July 2020	Oregon
1044	29 January 2021	Vermont
1041	12 March 2021	Pennsylvania
1068	19 March 2021	Maine

1026	30 April 2021	Maine
1033	30 April 2021	New York
1061	30 April 2021	Wisconsin
1014	14 May 2021	Virginia
1031	14 May 2021	Wisconsin
1035	14 May 2021	Vermont
1056	28 July 2021	New York
1028	29 September 2021	Minnesota
1023	15 October 2021	Minnesota
1029	15 October 2021	California
1030	5 October 2021	Minnesota
1012	9 November 2021	West Virginia
1027	10 November 2021	West Virginia
1048	10 November 2021	West Virginia
1042	24 November 2021	Pennsylvania
1036	9 December 2021	Oregon
1089	10 December 2021	Michigan
1045	15 December 2021	Kentucky
1065	10 January 2022	Oregon
1037	18 February 2022	New York
1058	22 February 2022	Vermont
1025	28 February 2022	Michigan
1038	4 March 2022	West Virginia
1050	14 June 2022	New York
1054	14 July 2022	Wisconsin
1043	12 August 2022	Maine
1040	14 September 2022	West Virginia
1051	2 October 2022	Mississippi
1052	7 October 2022	Maine
1047	12 October 2022	West Virginia
1057	14 October 2022	Kansas
1083	17 October 2022	Pennsylvania
1067	18 October 2022	New York
1039	24 October 2022	Rhode Island
1046	25 October 2022	West Virginia
1073	17 November 2022	New York
1094	22 November 2022	West Virginia
1053	30 November 2022	Pennsylvania
1055	2 December 2022	Wisconsin
1034	1 January 2023	California
1059	24 March 2023	California
1084	13 April 2023	California

1066	15 April 2023	Maine
1090	19 April 2023	California
1088	28 April 2023	West Virginia
1064	9 June 2023	Maine
1063	13 June 2023	California
1062	15 June 2023	Pennsylvania
1070	29 June 2023	Washington
1069	30 June 2023	Washington
1074	13 July 2023	Virginia
1080	19 July 2023	Virginia
1082	21 July 2023	Pennsylvania
1085	28 July 2023	Wisconsin
1087	4 August 2023	Oregon
1086	7 August 2023	West Virginia
1095	16 August 2023	Pennsylvania
1032	30 September 2023	Michigan
1049	30 September 2023	Maine
1071	30 September 2023	Michigan
1079	30 September 2023	Louisiana
1091	30 September 2023	Ohio
1092	30 September 2023	Ohio
1093	30 September 2023	Ohio
1097	30 September 2023	West Virginia
1100	30 September 2023	Virginia
1104	30 September 2023	West Virginia
1114	30 September 2023	New York
1125	30 September 2023	Maine
1182	30 September 2023	Oregon
1099	06 October 2023	Pennsylvania
1101	13 October 2023	New York
1102	16 October 2023	New York
1122	16 October 2023	Oregon
1103	18 October 2023	West Virginia
1119	18 October 2023	West Virginia
1124	18 October 2023	Missouri
1112	19 October 2023	West Virginia
1105	24 October 2023	Michigan
1107	24 October 2023	Montana
1126	26 October 2023	New York
1109	28 October 2023	Louisiana
1113	30 October 2023	Washington
1116	03 November 2023	Maine

1115	06 November 2023	Kentucky
1121	07 November 2023	North Carolina
1117	09 November 2023	Pennsylvania
1120	13 November 2023	Alabama
1110	14 November 2023	Alabama
1108	18 November 2023	Minnesota
1111	20 November 2023	New Hampshire
1118	30 November 2023	Virginia
1123	28 November 2023	Kentucky
1144	01 December 2023	Alabama
1134	04 December 2023	Mississippi
1146	06 December 2023	Mississippi
1147	14 December 2023	Maine
1143	14 December 2023	Alabama
1142	18 December 2023	Kentucky
1210	18 December 2023	Michigan
1138	18 December 2023	Minnesota
1139	20 December 2023	Oregon
1133	12 January 2024	New York
1141	15 January 2024	Georgia
1171	16 January 2024	Minnesota
1163	17 January 2024	Oregon
1164	06 February 2024	West Virginia
1160	08 February 2024	West Virginia
1161	09 February 2024	Florida
1159	20 February 2024	North Carolina
1162	20 February 2024	North Carolina
1168	22 February 2024	West Virginia
1172	22 February 2024	Missouri
1175	29 February 2024	Arkansas
1167	09 March 2024	Pennsylvania
1169	13 March 2024	Kentucky
1170	15 March 2024	Wisconsin
1166	21 March 2024	Maine
1185	22 March 2024	Alabama
1184	02 April 2024	Georgia
1186	04 April 2024	Georgia
1181	04 April 2024	Tennessee
1183	07 April 2024	Oregon
1178	08 April 2024	North Carolina
1190	23 April 2024	New York
1192	24 April 2024	Maine
1188	29 April 2024	California

1.2 Audit History

Audit type	Period	Program	Validation/verification body name	Number of years
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Validation	Crediting Period: 14 July 2020 – 13 July 2045	VCS	AENOR	25-year crediting period
Verification	Monitoring Period 1: 14 July 2020 – 29 September 2023	VCS	AENOR	3.2 years
Verification	Monitoring Period 2: 30 September 2023 – 31 May 2024	VCS	KBS Certification	0.7 years

1.3 Sectoral Scope and Project Type

Sectoral scope	14: Agriculture, Forestry, or Other Land Use (AFOLU)
AFOLU project category ¹	Improved Forest Management (IFM)
Project activity type	Extended Rotation Age (ERA)

1.4 Project Proponent

Organization name	Forest Carbon Works, PBC
Contact person	Julian Bauer
Title	Director, Conserve
Address	4530 W. 77th St. Suite 285 Edina, MN 55435
Telephone	1 (800) 399-5246
Email	Julian@forestcarbonworks.com

1.5 Other Entities Involved in the Project

There are no other entities involved in the development of this project.

1.6 Project Start Date

Project start date	14 July 2020
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¹ See Appendix 1 of the VCS Standard

Justification	On this date, the landowner for the initial project activity instance committed to implementing forest management techniques (IFM-1) required for admittance into the project. The commitment is evidenced by signature of a legally binding agreement (Annex D).
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1.7 Project Crediting Period

Crediting period	☐ Seven years, twice renewable ☐ Ten years, fixed ☒ Other: 25 years Per the VCS Standard v4.7 Section 3.9.3, AFOLU projects shall have a crediting period of a minimum 20 years, maximum 100 years and may be renewed up to four times, not exceeding 100 years. Per section 3.9.5 of the VCS Standard v4.7, for IFM ERA projects with harvesting, the project crediting period shall be set to include at least one complete harvest/cutting cycle. A 25-year harvest cycle is the baseline scenario for the initial management strata 102401 and 102402, evidenced by comparable harvest plans from the region (Annex Z).
Start and end date of first or fixed crediting period	14 July 2020 to 13 July 2045

1.8 Project Location

Approximate centroid locations in decimal degrees of each project activity instance (PAI) included in the project during this monitoring period. In addition to Table B below displaying the geodetic centroid coordinates for each PAI, a KML containing all project instances as well as centroids was provided in Annex C.

Table B.

PAI Number	Latitude (dd)	Longitude (dd)
1007	-122.2522497	45.47233842
1012	-81.96097765	38.28788812
1014	-81.35084642	36.81820728
1023	-92.65957087	47.96810976
1024	-121.596327	48.46565045
1025	-85.21612842	43.38795165

1026	-67.96861644	46.04577561
1027	-79.37879645	38.66179268
1028	-92.28135399	47.88211652
1029	-122.0334066	40.74263773
1030	-93.68511296	46.70550071
1031	-92.68603636	45.67598438
1032	-86.28930978	42.3336979
1033	-78.2574786	43.13535201
1034	-122.6652801	40.5248837
1035	-72.55138147	44.01716811
1036	-122.9897294	42.25638837
1037	-73.38805765	42.57896354
1038	-80.68462647	38.52714609
1039	-71.6970399	41.78626683
1040	-80.87058353	37.51193832
1041	-77.30291548	40.98287774
1042	-78.68123142	39.807847
1043	-67.97891461	44.73418293
1044	-72.73587827	44.11544863
1045	-86.17095633	37.29267326
1046	-81.53694466	38.58057614
1047	-82.29718122	38.17719633
1048	-81.17395099	39.22383775
1049	-67.84588673	45.99052539
1050	-77.48388952	42.096693
1051	-90.91193396	31.53739013
1052	-67.82149688	44.61372717
1053	-78.95269456	39.83515107
1054	-90.43166197	44.81188078
1055	-92.37739852	45.71900511
1056	-73.3002533	43.15504207
1057	-95.64753616	37.32309759
1058	-72.72991441	43.03708407
1059	-123.7172387	40.01819494
1061	-90.50453568	45.83772841
1062	-75.68163799	40.16616091
1063	-123.253311	39.45558697
1064	-69.13759503	45.13160827
1065	-122.2376746	45.30102513
1066	-68.64842969	44.47218967

1067	-75.27294427	43.98070623
1068	-70.94299419	43.512878
1069	-123.5589393	47.00289236
1070	-118.0353617	48.14001335
1071	-87.60646746	46.13940955
1072	-92.3739979	45.72106056
1073	-75.28774939	42.88240559
1074	-78.7658083	37.55871425
1079	-91.8760187	31.14495117
1080	-78.61963368	37.92718033
1082	-76.65768728	41.49413172
1083	-77.70529231	41.68574899
1084	-122.6083617	39.88852286
1085	-90.15607599	42.78584364
1086	-81.09598566	38.96094001
1087	-123.6802857	44.66272038
1088	-81.09899914	38.93521273
1089	-88.18376519	46.31322512
1090	-118.7480565	36.22022432
1091	-82.35517029	39.51857241
1092	-82.37647272	39.50505901
1093	-82.40651628	39.55940531
1094	-79.38760753	38.55710156
1095	-75.76578469	40.12485728
1097	-80.84445264	38.50892772
1099	-76.20729707	41.28414727
1100	-79.29399539	38.19520669
1101	-78.04484856	42.50092282
1102	-77.86048716	42.17928313
1103	-78.78600625	39.41952808
1104	-80.64811539	39.2308554
1105	-87.26880172	46.25156459
1107	-112.9705368	46.68352441
1108	-94.45423653	47.89768686
1109	-91.68812537	32.39638718
1110	-86.55237002	32.86438684
1111	-71.62672	44.310587
1112	-80.56466379	37.94004133
1113	-120.5655858	45.79412588
1114	-73.36499889	43.09782031

1115	-86.16777044	37.28138505
1116	-68.66006669	44.67718672
1117	-80.29448649	40.55984175
1118	-77.30349501	36.89872318
1119	-81.50174095	38.60773677
1120	-85.67977112	34.02054546
1121	-81.55979651	35.65006677
1122	-122.930152	42.08059605
1123	-86.67409562	37.68281559
1124	-90.2756923	37.39601929
1125	-67.85239341	45.99210365
1126	-74.05403913	44.24827664
1133	-74.75706616	41.91987198
1134	-89.15127215	33.55508094
1138	-94.96583214	48.1936919
1139	-117.4682058	45.96457559
1141	-84.56385505	32.54607369
1142	-86.78911148	37.65481972
1143	-87.33745088	32.27255833
1144	-87.92572547	32.48791084
1146	-90.78227745	31.75907458
1147	-70.19890402	44.00129388
1159	-77.33540185	35.27530692
1160	-80.44692014	37.52644778
1161	-82.94529795	29.21551627
1162	-81.37678413	36.2301699
1163	-119.4844751	44.70902256
1164	-81.00812603	37.61648897
1166	-69.20391807	44.52776041
1167	-79.35101123	40.15303546
1168	-79.44319023	38.61709402
1169	-85.77977263	37.75899321
1170	-92.21698451	46.6034855
1171	-92.51965189	46.98754499
1172	-91.63063469	38.73883387
1175	-90.75581161	35.0290351
1178	-77.2381436	35.3583491
1181	-88.43446068	35.01860421
1182	-124.0244088	44.60034561
1183	-123.5647488	44.06537302

1184	-81.85519275	32.96209322
1185	-85.83570457	34.35434923
1186	-85.362175	34.27458204
1188	-123.3475865	38.88360395
1190	-75.13565469	42.49169701
1192	-68.34540974	44.85693864
1210	-87.823714	46.49489765

1.9 Title and Reference of Methodology

Type (methodology, tool or module).	Reference ID, if applicable	Title	Version
Methodology	VM0003	Methodology for IFM through Extension of Rotation Age	1.3
Tool		UNFCCC Tool for the demonstration and assessment of additionality	7.0.0
Tool		AFOLU Non-Permanence Risk Tool	4.2
Tool		Calculation of the number of sample plots for measurements within A/R CDM project	02.1.0
Tool		Tool for testing significance of GHG emissions in A/R CDM project activities	01

1.10 Double Counting and Participation under Other GHG Programs

1.10.1 No Double Issuance

Is the project receiving or seeking credit for reductions and removals from a project activity under another GHG program?

☐ Yes ☒ No

To ensure that project activity instances are not receiving credits under other GHG programs, all landowners are required to sign a management lease agreement (MLA) that prohibits enrollment in other forest carbon offset programs (Annex D).

1.10.2 Registration in Other GHG Programs

Is the project registered or seeking registration under any other GHG programs?

☐ Yes ☒ No

1.11 Double Claiming, Other Forms of Credit, and Scope 3 Emissions

1.11.1 No Double Claiming with Emissions Trading Programs or Binding Emission Limits

Are project reductions and removals or project activities also included in an emissions trading program or binding emission limit? See the *VCS Program Definitions* for definitions of emissions trading program and binding emission limit.

☐ Yes ☒ No

1.11.2 No Double Claiming with Other Forms of Environmental Credit

Has the project activity sought, received, or is planning to receive credit from another GHG-related environmental credit system? See the *VCS Program Definitions* for definition of GHG-related environmental credit system.

☐ Yes ☒ No

1.11.3 Supply Chain (Scope 3) Emissions

Do the project activities affect the emissions footprint of any product(s) (goods or services) that are part of a supply chain?

☐ Yes ☒ No

No supply chain effects, including air, water or land impacts, are expected due to the implementation of the project.

1.12 Sustainable Development Contributions

Forest Carbon Works is committed to the United Nations' Sustainable Development Goals (SDGs) through the implementation and monitoring of the Family Forest Carbon Project. Instances included in the project were placed into contractual long-term agreements which protect water quality and forest ecosystems through extension of rotation age. Additionally, any harvests within the project area shall be certified by the Forest Stewardship Council to ensure sustainable forest management. Over the lifetime of the project, all carbon emissions removals and reductions shall be monitored and quantified using the Verified Carbon Standard and the VM0003 methodology. Table 1 below describes the project's contributions to SDGs this monitoring period.

The project contributes to nationally prioritized sustainable development goals, as the United States has committed to fulfilling the 17 United Nations' Sustainable Development Goals (Annex AM). Thus, all progress towards the SDGs fulfils United States' sustainable development priorities and the

proponent's provisions for monitoring and reporting this progress is the same for both, as shown in Table 1: Sustainable Development Contributions. Additionally, the project adheres to all federal laws, including those pertaining to sustainable development.

Table 1 : Sustainable Development Contributions

Row number	SDG target	SDG indicator	Net impact on SDG indicator	Current project contributions	Contributions over project lifetime
1)	6.6	6.6.1 Change in the extent of water-related ecosystems over time	Implemented activities to increase	Protected 18,425.2 hectares (45,529.4 acres) of forest and all watersheds contained therein with binding long-term agreements, including implementing no-touch forestry practices in all stream buffer zones, for this monitoring period. See Annex D.	Protected 24,985.0 hectares (61,739.1 acres) of forest and all watersheds contained therein with binding long-term agreements, including implementing no-touch forestry practices in all stream buffer zones, over the lifetime of the project. See Annex D.
2)	13.0	Tonnes of GHG emissions avoided or removed	Implemented activities to increase	Reduced or removed 100,563 tonnes of CO ₂ e for this monitoring period.	Reduced or removed 176,367 tonnes of CO ₂ e over the lifetime of the project.
3)	15.1	15.1.1 Forest area as a proportion of total land area	Implemented activities to increase	Placed 18,425.2 hectares (45,529.4) of forest in legally binding protective agreements for this monitoring period. See Annex D.	Placed 25,870.4 hectares (63,927.25 acres) of forest in legally binding protective agreements during the project lifetime. See Annex D.
4)	15.2	15.2.1 Progress towards sustainable forest management	Implemented activities to increase	As an FSC group manager, the project proponent ensures all project activity instances, 18,425.2 hectares (45,529.4 acres) during this monitoring period, achieve FSC certification prior to engaging in commercial harvest. This ensures any commercial harvesting is carried out in a sustainable manner.	As an FSC group manager, the project proponent ensures all project activity instances, 25,870.4 hectares (63,927.25 acres) in total, achieve FSC certification prior to engaging in commercial harvest. This ensures any commercial harvesting is carried out in a sustainable manner.

1.13 Commercially Sensitive Information

Per the VCS Standard 3.5.2, qualifying information may be protected from public review.

Financial information qualifies as “sensitive information”, per the VCS Program Definitions v4.7, where its disclosure could reasonably be expected to result in a “material financial loss or gain, prejudice the outcome of contractual or other negotiations or otherwise damage or enrich the person or entity to which the information relates.” Landowner identities are also protected under the same definition, as their disclosure could lead to a similar outcome. All annexes that include PAI landowner personal information, such as proof of ownership, stakeholder correspondence, and past carbon project enrollment are marked as sensitive and will be omitted from public review. See Appendix 1 for the full list of Annexes that meet these criteria.

Calculations in the Financial Viability section of the Non-Permanence Risk Report include qualifying financial inputs, as such, these inputs shall not be disclosed in the public documentation.

2. SAFEGUARDS AND STAKEHOLDER ENGAGEMENT

2.1 Stakeholder Engagement and Consultation

2.1.1 Stakeholder Identification

Stakeholder Identification	The stakeholders involved in the project were identified as the landowners of project activity instances. This process has not changed since validation, but the number of stakeholders increased due to the inclusion of additional PAIs.
Legal or customary tenure/access rights	The stakeholders identified in the project were the landowners of each project activity instance, thus stakeholders hold legal tenure and access rights to each project instance. Per the VCS Standard v4.7 3.18.8, the project may affect stakeholder property rights only if free, prior, and informed consent (FPIC) is provided by the stakeholder, as well as a transparent agreement that provides just and fair compensation. See sections 2.1.2

	and 2.1.3 for more detail on the FPIC process for the project. There were no conflicting legal rights that were held by stakeholders, indigenous people (IPs), local communities (LCs), and customary rights holders. Nothing related to the project infringes on cultural heritage, and there are no indigenous groups or customary custom rights affected. All instances correspond to private owners and the property is strictly private, with no third-party rights over the property or use rights of said instances, including individuals, communities or indigenous peoples.
Stakeholder diversity and changes over time	The identified stakeholders were from different states and have many different goals for their enrollment within the project. The main measured markers of diversity were geographical and generational. The geographic span of the project can be seen in Annex C, which demonstrates the diversity inherent in the project design due to regional differences. Additionally, the project proponent and membership advisors tracked the stakeholder's goals which tended to also differ regionally and span conservation, monetization, and legacy, though there were no changes in the make-up of each group over time during the time monitored.
Expected changes in well-being	The ecosystem services and benefits to stakeholders included recreation, preservation of treasured family forests, improvement of forest health, and avoidance of negative consequences of extractive logging such as increased soil impaction and contamination of waterways
Location of stakeholders	Stakeholders were landowners with project activity instances located on their property, the locations of which can be found in Annex C. The project was not predicted to negatively impact stakeholders. No local communities (LCs), indigenous peoples (IPs), or customary rights holders have been identified as being impacted by the project.
Location of resources	Stakeholders retained access and ownership to their enrolled properties which spanned the United States.

2.1.2 Stakeholder Consultation and Ongoing Communication

Ongoing consultation

In accordance with VCS Standard 3.18.3, local stakeholder engagement has been systematically conducted through outreach efforts led by FCW sales team personnel. This outreach initiative transcends a singular event, representing a sustained and ongoing correspondence between FCW and key stakeholders. Commencing in 2020, the outreach efforts included the dissemination of the FCW offer packet to landowners involved in the initial project activity, providing comprehensive information regarding project design, implementation, and monitoring requirements.

Specialized regional teams, comprising membership specialists and foresters, maintain regular and substantive communication with stakeholders through various channels such as phone, in-person meetings, and email. These interactions encompass comprehensive discussions on all facets of project design, and established mechanisms, in accordance with VCS Standard 3.18.4, allow stakeholders to articulate concerns. The correspondence covers a spectrum of topics, including project design, implementation, monitoring, landowner compensation, stakeholder grievances, and addressing any questions or concerns about the process. A comprehensive record of this correspondence is in Annex AI.

Forest Carbon Works employs continuous feedback mechanisms and culturally appropriate grievance redress procedures, outlined in section 2.1.4 of this document, ensuring stakeholders have an efficient avenue to address any emerging issues. Additionally, there is strict adherence to all pertinent laws and regulations governing stakeholder and workers' rights as delineated in Section 1.14 of the FCW Project Description.

FCW also maintains open avenues for communication with the public and all stakeholders through the website: <https://forestcarbonworks.org/stakeholders/>

Ongoing correspondence with landowners has been monitored and analyzed for project design comments and feedback, but as of the creation of the Monitoring Report no stakeholders have submitted criticism or suggested updates

	to the project design. Consequently, no modifications have been implemented in response to stakeholder consultation at this juncture. Communication with stakeholders will be ongoing as they may submit feedback and grievances through the project website at any time, regardless of whether there is an in-person or online stakeholder consultation occurring. Stakeholders can also submit comments and feedback through communications with their designated membership advisor. Readily accessible communication channels will be maintained throughout the project's lifecycle. Any feedback received during future monitoring periods, whether through the website or interactions with membership specialists, will be integrated when pertinent. Alternatively, justification will be provided for cases where updates were deemed unnecessary or inappropriate.
Date(s) of stakeholder consultation	Stakeholder consultation is an on-going process of communication with membership specialists throughout the lifecycle of the project. Additionally, stakeholders were also invited via a publicly available link on the project website to an in-person Stakeholder Meeting in Little Rock, Arkansas on 6 December 2023, to share comments, grievances, and feedback on the project. Details of online invitation that was shared publicly is in Annex AJ.
Communication of monitored results	All project monitoring communications with stakeholders occurred through email and telephone correspondence between FCW membership advisors and the landowners. Information was also available to stakeholders through the project website. All project monitoring communications with stakeholders occurred in a timely manner. A comprehensive record of stakeholder correspondence, including timestamps, is in Annex AI.
Consultation records	Stakeholder consultation was documented through email records and notes of phone calls via records from the project proponent's customer relationship management database.
Stakeholder input	The project proponent will take due account of all input received during the local stakeholder consultation and through ongoing communications via online channels such as the grievance redress procedure. Ongoing correspondence with

	landowners has been monitored and analyzed for project design comments and feedback, but as of the creation of the Monitoring Report no stakeholders have submitted criticism or suggested updates to the project design. Consequently, no modifications have been implemented in response to stakeholder consultation at this juncture.
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2.1.3 Free, Prior, and Informed Consent

Consent	The process of ensuring free, prior, and informed consent for all stakeholders began at this initial phase, with the submission of the FCW Membership guide offer packet and other information to stakeholders. Per the requirements of the VCS Standard v4.7 3.18.8, all stakeholders where property rights are affected provided free, prior, and informed consent (FPIC) to the project proponent through signature of the MLA (see Annex D) and were provided sufficient information concerning project activities through consultation with membership advisors (see Annex AI), access to the FCW Conserve Membership Guide (see Annex R), and recourse to submit any feedback or critiques to the project through the grievance redress procedure (see section 2.1.4 of the monitoring report) and the public comment submission portal (see section 2.1.5 of the monitoring report). These documents allowed the landowner to be freely informed prior to the project implementation. Consent was given to implement the project with the stakeholder signature of the MLA. During the on-going FPIC process, there were no special issues or conflicts raised pertaining to informed consent of IPs, LCs, and customary rights holders, though membership specialists did work with each private landowner to address individual concerns (see Annex AI).
Outcome of FPIC	The dedicated FPIC process created by FCW included but was not limited to: - Project details are present on the project website.

	- Dedicated grievance process available for stakeholders (further details can be found in section 2.1.4 of the Monitoring Report). - Constant communication available and encouraged with membership advisors. - Membership lease agreement published for perusal before signing. Additionally, the United States FSC Forest Management Standard v1.0 Principle 4 states there must be appropriate mechanisms for resolving grievances and for providing fair compensation in the case of loss or damage affecting the legal or customary rights, property, resources, or livelihoods of local peoples. Measures shall be taken to avoid such loss or damage. The project obtained informed consent from landowners, ensuring the safeguarding of contractual participation and equitable benefit-sharing arrangements in collaboration with stakeholders. This measure was implemented to prevent any infringement upon their land, relocation of individuals without consent, or cause any form of physical or economic displacement.
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2.1.4 Grievance Redress Procedure

The project proponent maintained a grievance redress procedure to address disputes with local stakeholders that arose during project planning and implementation (VCS Standard 3.18.19). The project proponent had multiple culturally appropriate methods for submitting a grievance: self-identified, confidential, or anonymous procedures that all stakeholders were made aware of in advance of project implementation. The project proponent had a form to submit grievances available on their website, which could be submitted with or without the complainant's identity attached. Additionally, the project proponent publicized the acceptance of grievances submitted by mail to their office, the address of which is available, and designated a central point of contact to compile all the letters received. All grievances received were publicly available on the project proponent's website after submission and the complainant received confirmation of receipt if contact information was available. During the monitoring period any conflicts or grievances that arose were recorded and resolved as needed.

If a grievance had been received, the project proponent would attempt to resolve the grievance following a three-stage approach:

1. The project proponent will try to amicably resolve the grievance and provide a written response to it in a culturally appropriate way.
2. If there are any grievances received that cannot be resolved internally or via amicable negotiation, then the grievance shall be referred to the Consensus Building Institute for third-party mediation (<https://www.cbi.org/>).
3. Finally, if mediation does not resolve the grievance, it shall be referred to the appropriate, competent jurisdiction within the United States of America Court System without prejudice to a party's ability to submit the grievance to a competent supranational adjudicatory body, if any.

The grievance redress procedure is made publicly available on the stakeholders' page of the project proponent's website, directed to: <https://forestcarbonworks.org/grievance-procedure/>.

Grievances received	Resolution and outcome
N/A	No grievances were raised during the monitoring period. The procedure is easily accessible to stakeholders for ongoing consultation. The project proponent has advertised the grievance procedure on the project website. Major stakeholders are in regular communication with a membership advisor and may submit feedback directly to that MA by phone and email for the lifetime of the project and beyond, as specified in the Project Description: Section 2.2 Local Stakeholder Consultation. Correspondence for each project activity instance is available in Annex AI. Additionally, the FCW project website, which is available to all stakeholders and the public, published the invitation to the in-person stakeholder event (Annex AJ). The various means of communication available to stakeholders (e.g. phone, mail, email, project website submission form, in person meetings, etc.) allow stakeholders with differing needs to communicate with the project proponent in a way that is most easily accessible and preferable to them. As various communication methods cater to different generations, socio-economic statuses, and disabilities, having a myriad of information transmission available means that at least one method of stakeholder communication with the project proponent is easily accessed across all groups.

	Access to these various forms of communication, including via the internet, phone, and physical mail, are widely accessible across the United States. 95% of adults use the internet ² , 97% have phones ³ , and 100% have access to the US postal service ⁴ . All residents of the United States and its territories have access to the US Postal Service products and services and regardless of location pay the same amount for a First-Class mail postage stamp.

2.1.5 Public Comments

Summary of comments received	Actions taken
No public comments were received as part of the stakeholder consultation process.	N/A

2.2 Risks to Stakeholders and the Environment

The "FCW Conserve Safeguard Risk Identification Report" and the subsequent "FCW Conserve Safeguard Risk Policy" were developed to ensure compliance with MR Sections 2.2, 2.3.1, 2.3.2, 2.3.3, and 2.3.4 (see Annex AW). The Risk Identification Report provides an overview of Forest Carbon Works' (FCW) methodology and findings in identifying and assessing potential risks associated with project activity instances (PAIs) within the Family Forest Carbon Project. Drawing upon the Verified Carbon Standard (VCS) and the VCS Monitoring Report Template v4.3, FCW systematically categorizes and evaluates various risks to ensure alignment with applicable standards.

The report outlines risks to stakeholders and the environment, encompassing aspects such as stakeholder well-being, participation, working conditions, safety of women and minority groups, human rights, and equity. Specific risks, including but not limited to wildfire, food security, and discrimination, are highlighted, alongside an analysis of risks pertaining to property rights, benefit-sharing, and ecosystem health.

² <https://www.pewresearch.org/internet/fact-sheet/internet-broadband/>

³ <https://www.pewresearch.org/internet/fact-sheet/mobile/>

⁴

<https://facts.usps.com/#:~:text=Everyone%20living%20in%20the%20United,postage%20stamp%2C%20regardless%20of%20location>

The "FCW Conserve Safeguard Risk Policy" offers a comprehensive framework for mitigating these identified risks associated with project activities. With a core focus on stakeholder well-being, participation, working conditions, and human rights, FCW delineates a robust set of mitigation measures aimed at ensuring compliance with the Verified Carbon Standard (VCS) and protecting the stakeholders and the environment.

	Risk identified	Mitigation or preventative measure taken
Risks to stakeholder participation	Potential risks to stakeholders related to the project activity include: 1. Risk to food security in the area (Risk 1.2.1) 2. Risk to land loss (Risk 1.2.2) 3. Risk to loss of yields. (Risk 1.2.3) 4. Negative Impacts on livelihoods (Risk 1.2.4) 5. Risks exacerbated by climate change. (Risk 1.2.5) For more information see the FCW Conserve Safeguard Risk Identification Report Section 1.2 (Annex AW).	Mitigation or preventative measures taken: 1. FCW is in conformance with the policy (Annex AW) that addresses Risk 1.2.1 as evidenced by adherence to internal policy of incorporating heavily wooded areas, which are not suitable for agriculture (see Annex B for PAI maps). 2. FCW is in conformance with the policy (Annex AW) that addresses Risk 1.2.2 as evidenced by the signed MLAs for all PAI this monitoring period, which maintains property rights (see Annex D). 3. FCW is in conformance with the policy (Annex AW) that addresses Risk 1.2.3-1.2.4 as evidenced by the benefit sharing agreements for all PAIs (Annex D) and the proof of the FPIC process (Free and Informed Prior Consent) (Annex R). 4. FCW is in conformance with the policy (Annex AW) that addresses Risk 1.2.5 as evidenced by

		adherence to the FCW Harvest Policy (Annex Q) that allows for climate-smart silvicultural strategies. Full mitigation measures for potential risks to stakeholder wellbeing can be found in the FCW Conserve Safeguard Risk Policy Section 1.2: Risks to Stakeholders' Participation (Annex AW).
Working conditions	Potential risks to working conditions from the project activity include: 1. Risks to employees implementing climate-smart forest practices, due to safety concerns or wildfire potential. (Risk 1.3.2) 2. Employees may be exposed to hazardous substances, such as pesticides or herbicides, used in forest management. (Risk 1.3.2) 3. Employees working outdoors may be exposed to extreme weather conditions, such as heat, cold, or storms, which can pose health risks. (Risk 1.3.3) 4. Employees working in forested areas, such as cruisers, may encounter dangerous wildlife or plant life, posing a risk to their safety. (Risk 1.3.4)	Mitigation or preventative measures taken: 1. FCW is in conformance with the policy (Annex AW) that addresses Risk 1.3.1, 1.3.3, and 1.3.4 as evidenced by adherence the in-depth safety and training plan covering all relevant safety concerns which were available prior to forest cruises online and at the site on the device used to collect measurements. Additional emergency information was collected prior to entrance to the forest, such as emergency contacts. See Annex AX for safety and anti-harassment training materials. Additionally, to mitigate Risk 1.3.1, 1.3.3, and 1.3.4, FCW continued to conform with FSC principle 4 which requires FCW to maintain or enhance the long-term well-being of forest

	For more information see the FCW Conserve Safeguard Risk Identification Report Section 1.3 (Annex AW).	workers and local communities. 2. FCW is in conformance with the policy (Annex AW) that addresses Risk 1.3.2 by eliminating commercial harvests on PAIs prior to FSC certification (see Annex Q) and no commercial harvests have occurred during this monitoring period (Annex AS). FSC principle 6 specifies forest managers should strive to reduce the use of other chemical pesticides and biocides, and work towards their eventual phase-out. Full mitigation measures for potential risks to working conditions can be found in the FCW Conserve Safeguard Risk Policy Section 1.3 (Annex AW).
Safety of women and girls	Potential risks to the safety of women and girls include: 1. Forest management often requires workers to be alone for long periods of time in remote areas to complete work. This situation may put female foresters working on the project, or female project activity instance owners recreating on the project at risk for harassment by others in the area. (Risk 1.4.1) For more information see the FCW Conserve Safeguard Risk	Mitigation or preventative measures taken: 1. FCW is in conformance with the policy (Annex AW) that addresses Risk 1.4.1 as evidenced by adherence to FSC principle 4 which requires FCW to maintain or enhance the long-term well-being of forest workers and local communities. Employees of FCW underwent mandatory sensitivity training to prevent harassment and discrimination against women and girls (Annex

	Identification Report Section 1.4 (Annex AW).	AX). Furthermore, women and girls are protected under US Federal laws under the U.S. Equal Employment Opportunity Commission and are thus protected at the PAI level. The project proponent's activities were also subject to this as well as rigorous gender equity requirements for FSC certified group managers. FCW conformed with FSC principle 4 which requires FCW to maintain hiring practices and conditions of employment that are non-discriminatory and follow aforementioned applicable laws and regulations. More mitigation measures for potential risks to the safety of women and girls can be found in the FCW Conserve Safeguard Risk Policy Section 1.4 (Annex AW).
Safety of minority and marginalized groups, including children	Potential risks to the safety of marginalized groups, including children, include: 1. Forest management often requires workers to be alone for long periods of time in remote areas to complete work. This may put workers in a situation with potential for harassment of minority people working or recreating on the project area due to workplace or other bias. (Risk 1.5.1)	Mitigation or preventative measures taken: 1. FCW is in conformance with the policy (Annex AW) that addresses Risks 1.5.1, 1.5.2, and 1.5.4 as evidenced by continued adherence to FSC Certification which requires FCW to exceed local hiring practices and has several non-discrimination clauses. To mitigate Risk 1.5.1, FCW continues to conform with FSC principle 1, criteria

	2. Minority and marginalized groups may face discrimination in hiring, wages, and working conditions in some countries. (Risk 1.5.2) 3. Project activities might inadvertently exclude minority and marginalized groups from participating in and benefiting from the project. (Risk 1.5.3) 4. Not applicable: Women and girls in the local community might face increased risk of gender-based violence due to the presence of workers or changes in the local environment. (Risk 1.5.4) For more information see the FCW Conserve Safeguard Risk Identification Report Section 1.5 (Annex AW).	1.1 (respect all local, national, int'l and tribal laws) and FSC principle 1, criteria 1.3 (the provisions of all binding international agreements such as CITES, ILO Conventions, ITTA, and Convention on Biological Diversity, shall be respected).FCW continued to adhere to applicable US laws, such as Title VII of the Civil Rights Act of 1964 and The Matthew Shepard and James Byrd Jr. Hate Crimes Prevention Act of 2009, 18 U.S.C. § 249. and are thus protected at the PAI level. 2. FCW is in conformance with the policy (Annex AW) that addresses Risks 1.5.3 as evidenced by MLAs requiring that inclusion in the project is determined by consent to participate by the landowner and adherence to the eligibility criteria (see Annex D for MLAs) More mitigation measures for potential risks to the safety of minority and marginalized groups, including children, can be found in the FCW Conserve Safeguard Risk Policy Section 1.5 (Annex AW).
Pollutants (air, noise, discharges to water, generation of waste, release of hazardous materials)	1. Potential risks caused via pollutants: Forest Carbon Works allows climate-smart forest management practices on the project	Mitigation or preventative measures taken: 1. FCW is in conformance with the policy (Annex AW) that addresses Risk

	area. Forestry equipment has the potential to leak pollutants and cause noise pollution while working. (Risk 1.6.1) 2. Forest management activities, such as the use of machinery and equipment, may result in the emission of pollutants into the air, impacting air quality. Runoff from these activities may also carry sediment, chemicals, or other pollutants into nearby water bodies, contaminating water sources. (Risk 1.6.2) 3. Operation of forestry equipment and machinery may generate excessive noise levels, causing disturbance to local communities and wildlife. (Risk 1.6.3) 4. Forest management activities may generate various types of waste, including organic debris, packaging materials, and chemical containers. (Risk 1.6.4) For more information see the FCW Conserve Safeguard Risk Identification Report Section 1.6 (Annex AW).	1.6.1-1.6.4 as evidenced by its lack of engagement in any pollutant causing activity such as planting, using fertilizer or pesticide, or harvesting under the project scenario on any properties without FSC certification (see Annex Q). The FSC-US Forest Management Standard v1.0 requires that the forest owner or manager understand the likely social impacts of management activities and incorporates this understanding into management planning and operations. These include impacts on public resources, including air, water and food (hunting, fishing, collecting) and aesthetics. Also, FSC principle 6 specifies forest managers should strive to reduce the use of other chemical pesticides and biocides, and work towards their eventual phase-out. Mitigation measures for potential risks from pollutants can be found in the FCW Conserve Safeguard Risk Policy Section 1.6 (Annex AW).
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2.3 Respect for Human Rights and Equity

2.3.1 Labor and Work

Discrimination and sexual harassment	Within the monitoring period no discrimination or sexual harassment has occurred. FCW has implemented a series of mitigation measures to prevent harassment and discrimination or report it if it has occurred. For more information, see the FCW Conserve Safeguard Risk Identification Report Section 2.2 and FCW Conserve Safeguard Risk Policy Section 2.2 (Annex AW). Relevant FSC principle, Gender Equality Guidelines pertaining to SDG 05: “GENDER EQUALITY”, are present in Annex AK. Additionally, employees of FCW underwent mandatory sensitivity training to prevent sexual harassment and discrimination (Annex AX).
Management experience	<i>No new entity was involved in project design or implementation.</i>
Gender equity in labor and work	Equal opportunities have been provided in the context of gender equity and pay for labor and work as demonstrated in the FCW Conserve Safeguard Risk Identification Report Section 2.4 (Annex AW). Project activities are also subject to US law pertaining to discrimination and sexual harassment in labor and work related to labor and work such as the Fair Labor Standards Act (29 U.S.C. § 201 et seq.) which establishes labor standards, including minimum wage and overtime, the Civil Rights Act of 1964 (Public Law 88-352, 78 Statute 241)⁵ prohibits discrimination based on race, color, religion, sex, or national origin, and the regulations of the U.S. Equal Employment Opportunity Commission.
Human trafficking, forced labor, and child labor	The project does not use victims of human trafficking, forced labor, and child labor as demonstrated in the FCW Conserve Safeguard Risk Identification Report Section 2.5 (Annex AW). It is illegal in the United States to violate human rights, pay less than the minimum wage, discriminate in hiring or during employment, engage in human trafficking, or promote unsafe work practices. Laws prohibiting these human rights violations include

⁵ <https://www.govinfo.gov/app/details/STATUTE-78/STATUTE-78-Pg241/context>

	but are not limited to: Title VII of the Civil Rights Act ⁶ ; the Americans with Disabilities Act ⁷ ; the Equal Pay Act ⁸ ; the Fair Labor Standards Act ⁹ ; the Family and Medical Leave Act (“FMLA”) ¹⁰ ; the Immigration Reform and Control Act ¹¹ ; the National Labor Relations Act (“NLRA”) ¹² ; the Occupational Safety and Health Act ¹³ ; the Pregnancy Discrimination Act ¹⁴ ; and Executive Order 11246 ¹⁵ .
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2.3.2 Human Rights

The project continues to recognize, respect, and promote the protection of the rights of IPs, LCs, and customary rights holders in line with applicable international human rights law, and the United Nations Declaration on the Rights of Indigenous Peoples and ILO Convention 169 on Indigenous and Tribal Peoples. Where potential risks related to human rights stemming from the project activity were identified, corresponding mitigation strategies were established and documented. For more information see the FCW Conserve Safeguard Risk Identification Report Section 2.1 and FCW Conserve Safeguard Risk Policy Section 2.1 (Annex AW).

2.3.3 Indigenous Peoples and Cultural Heritage

The project continues to recognize, respect, and promote the protection of the rights of IPs, LCs, and customary rights holders in line with applicable international human rights law, and the United Nations Declaration on the Rights of Indigenous Peoples and ILO Convention 169 on Indigenous and Tribal Peoples. For more information see the FCW Conserve Safeguard Risk Identification Report Section 3.1-3.2 and FCW Conserve Safeguard Risk Policy Section 3.1-3.2 (Annex AW).

2.3.4 Property Rights

Disputes over rights to territories and resources	N/A
Respect for property rights	FCW has implemented ongoing measures to protect and preserve the property rights of stakeholders, IPs, LCs, and customary rights holders including FSC certification, the membership lease agreement (Annex D), internal policies (Annex AW), and the FPIC process (Annex R).

⁶ <https://www.justice.gov/crt/laws-we-enforce>

⁷ <https://www.dol.gov/general/topic/disability/ada>

⁸ <https://www.eeoc.gov/statutes/equal-pay-act-1963>

⁹ <https://www.dol.gov/agencies/whd/flsa>

¹⁰ <https://www.dol.gov/agencies/whd/fmla>

¹¹ <https://www.eeoc.gov/history/immigration-reform-and-control-act-1986>

¹² <https://www.nlr.gov/guidance/key-reference-materials/national-labor-relations-act>

¹³ <https://www.osha.gov/laws-regs/oshact/completeoshact>

¹⁴ <https://www.eeoc.gov/statutes/pregnancy-discrimination-act-1978>

¹⁵ <https://www.dol.gov/agencies/ofccp/executive-order-11246/ca-11246>

	For more information see the FCW Conserve Safeguard Risk Identification Report Section 4.1-4.2 and FCW Conserve Safeguard Risk Policy Section 4.1-4.2 (Annex AW).
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2.3.5 Benefit Sharing

Summary of the benefit sharing plan	The benefit-sharing agreement is structured through two distinct options available to landowners, as outlined on the Forest Carbon Works website and in membership materials. The initial option involves a credit revenue-sharing annual payment model, wherein landowners receive a percentage of credit sales. The second option entails standard payments, where landowners receive a predetermined, fixed payment. To optimize the financial outcome for landowners, membership specialists collaborate with members to evaluate market price growth trends, guiding them in the selection between the revenue-sharing or standard payment models. Each landowner then selected one of these two benefit-sharing plans, which is reflected in their signed MLA, as detailed in Annex D.
Benefit sharing during the monitoring period	Standard payment offers for qualifying landowners are on a per acre per year basis over the 25-50-year lifespan of the Conserve Membership Contract, which is paid in annual installments. The first Annual Payment is made within 30 days of signing the Membership Agreement, and – once the first year is completed – is made annually thereafter until year 25, at which time participating landowners can opt in to additional 5-year payment terms up to 5 more times, for a total of up to 50 years' worth of annual payments. The other payment offer involves landowners opting into a 25% credit revenue share annual payment model based on their credits' market value at a trailing 12-month (TTM) market price. This process is projected to happen within the first two years of membership.

2.4 Ecosystem Health

	Risk identified	Mitigation or preventative measure taken during the monitoring period
Impacts on biodiversity and ecosystems	As project activities decrease long-term timber harvesting, biodiversity and ecosystems could be impacted. For more information see the FCW Conserve Safeguard Risk Identification Report, Risk 6.1.2 (Annex AW).	Mitigation or preventative measures taken: FCW is in conformance with the policy (Annex AW) that addresses Risk 6.1.2 by adhering to internal harvest policy under which no harvesting or planting will occur prior to FSC certification under the project activity scenario (IFM) (see Annex Q). For more information see the FCW Conserve Safeguard Risk Policy Section 6.1.2 (Annex AW).
Soil degradation and soil erosion	No risk identified For more information see the FCW Conserve Safeguard Risk Identification Report, Risk 6.1.4 (Annex AW).	N/A, there is no risk of soil degradation or soil erosion as there was no harvesting in project during this monitoring period (Annex AS). For more information see the FCW Conserve Safeguard Risk Policy Section 6.1.4 (Annex AW).
Water consumption and stress	Increased water consumption from vegetation from lack of harvests. For more information see the FCW Conserve Safeguard Risk Identification Report, Risk 6.1.5 (Annex AW).	Mitigation or preventative measures taken: FCW is in conformance with the policy (Annex AW) that addressed Risk 6.1.5 by working with its regional foresters to monitor the impact of the project scenario on local hydrological functions to ensure the project does not have a disproportionate negative effect on local waterways. Additionally, FCW allowed for the possibility of climate-smart forest management as it can improve vegetations' impact on water consumption and stress. The components of forest structure such as species composition, stand density, and age distribution can all be controlled through management to minimize negative effects.

		For more information see the FCW Conserve Safeguard Risk Policy Section 6.1.5 (Annex AW).
Usage of fertilizers	No risk identified For more information see the FCW Conserve Safeguard Risk Identification Report, Risk 6.1.6 (Annex AW).	N/A, there was no use of fertilizer as there was no harvesting in project during this monitoring period (Annex AS). For more information see the FCW Conserve Safeguard Risk Policy Section 6.1.6 (Annex AW).

2.4.1 Rare, Threatened, and Endangered species

Species or habitat	The project adhered to all local, state, and federal laws and best management practices concerning rare, threatened, and endangered species, and assessed environmental impact for small and low intensity managed forests (SLIMF) under the Forest Stewardship Council standard indicator 6.1.a. This standard includes evaluation of, among other factors, state or federally listed endangered species in compliance with the Endangered Species Act (16 U.S.C. § 1531 et seq.) which protects threatened and endangered species and regulates management of their habitats. The project proponent checked the sensitive species database prior to harvest. If sensitive species or habitats were found during these assessments, FCW shall prepare a strategy to reduce or avoid net harm. Documentation accounting for all threatened and endangered species with habitat overlapping any project instance not modelled as “no harvest” was staged in Annex E. No harvesting occurred during this monitoring period so there was no impact on habitats of rare, threatened, or endangered species (Annex AS). For more information see the FCW Conserve Safeguard Risk Identification Report Section 6.1-6.3 and FCW Conserve Safeguard Risk Policy Section 6.1-6.3 (Annex AW).
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2.4.2 Introduction of species

Species introduced	Classification	Justification for use	Adverse effects and mitigation
N/A, no planting in project at validation.	N/A	N/A	N/A

Existing invasive species	Mitigation measures to prevent spread or continued existence of invasive species
No invasive species have been identified, per local (state) invasive species registry (see Annex AF).	Per FCW's harvest policy, no invasive species will be introduced nor be allowed to thrive as a result of the project activity (see Annex Q).

2.4.3 Ecosystem conversion

Not applicable, this project is not an ARR, ALM, WRC or ACoGS project.

3.IMPLEMENTATION STATUS

3.1. Implementation Status of the Project Activity

The project activity transitioned privately-owned forestland into uneven-aged silvicultural systems using harvest techniques such as group selection, patch cuts, or continuous thinning (IFM 1). These techniques generate GHG emissions reductions and removals in comparison to the baseline scenario (See section 5.1). There have been no changes to the project proponent or other entities. No known carbon losses occurred on the project, reversal or otherwise. No harvesting has occurred during this monitoring period (Annex AS).

The project was listed on the Verra pipeline on April 5th, 2023, and received registration approval on February 2, 2024. The project activity was first implemented at the start date of the project, 14 July 2020, per Section 1.6. All project activity instances included in this monitoring period began project activity on their respective implementation dates, shown in Table 1 above.

All project activity instances listed in Table 4 below are new to the project since the last verification. This table provides PAI number and any reported carbon loss during this monitoring period, if any.

Table 4: PAI Implementation Dates and Carbon Loss During Monitoring Period

PAI Number	Implementation Date	Reversal During Current Monitoring Period
1032	30 September 2023	No
1049	30 September 2023	No
1071	30 September 2023	No
1079	30 September 2023	No

1091	30 September 2023	No
1092	30 September 2023	No
1093	30 September 2023	No
1097	30 September 2023	No
1100	30 September 2023	No
1104	30 September 2023	No
1114	30 September 2023	No
1125	30 September 2023	No
1182	30 September 2023	No
1099	06 October 2023	No
1101	13 October 2023	No
1102	16 October 2023	No
1122	16 October 2023	No
1103	18 October 2023	No
1119	18 October 2023	No
1124	18 October 2023	No
1112	19 October 2023	No
1105	24 October 2023	No
1107	24 October 2023	No
1126	26 October 2023	No
1109	28 October 2023	No
1113	30 October 2023	No
1116	03 November 2023	No
1115	06 November 2023	No
1121	07 November 2023	No
1117	09 November 2023	No
1120	13 November 2023	No
1110	14 November 2023	No
1108	18 November 2023	No
1111	20 November 2023	No
1118	30 November 2023	No
1123	28 November 2023	No
1144	01 December 2023	No
1134	04 December 2023	No
1146	06 December 2023	No
1147	14 December 2023	No
1143	14 December 2023	No
1142	18 December 2023	No
1210	18 December 2023	No

1138	18 December 2023	No
1139	20 December 2023	No
1133	12 January 2024	No
1141	15 January 2024	No
1171	16 January 2024	No
1163	17 January 2024	No
1164	06 February 2024	No
1160	08 February 2024	No
1161	09 February 2024	No
1159	20 February 2024	No
1162	20 February 2024	No
1168	22 February 2024	No
1172	22 February 2024	No
1175	29 February 2024	No
1167	09 March 2024	No
1169	13 March 2024	No
1170	15 March 2024	No
1166	21 March 2024	No
1185	22 March 2024	No
1184	02 April 2024	No
1186	04 April 2024	No
1181	04 April 2024	No
1183	07 April 2024	No
1178	08 April 2024	No
1190	23 April 2024	No
1192	24 April 2024	No
1188	29 April 2024	No

3.2. Deviations

3.2.1 Methodology Deviations

The project deviated from the VM0003 methodology by applying an alternative method related to the criteria and procedures for monitoring that is more efficient for project-specific circumstances, achieved that same level of accuracy and results, and was more conservative than what is set out in the methodology. The deviation was demonstrated during validation to not have an impact of the applicability conditions, additionality, or the appropriateness of the baseline scenario. The relevant parameter is defined in Sections 4.1 and 4.2.

The uncredited reserve stock (URS) is a division of the above ground biomass and standing dead wood carbon pools. The uncredited reserve stock (URS) represents a small portion of project carbon stocks that are subject to the project activity but conservatively was not counted towards VCU accounting or issuance. The URS was calculated as nine percent (9%) of the initial carbon stock of all PAIs as quantified at the time of addition of each PAI to the grouped project.

Contributions to, and depletions from, the URS were tracked at the PAI level. A PAI's contribution to the uncredited reserve stock occurs once upon enrolment into the grouped project. The balance of the uncredited reserve stock must be included in this and all future monitoring reports and the balance shall be within the scope of verification, however is not a selected carbon pool.

Upon first enrolment to the grouped project, the PAI's contribution to the URS is quantified as nine percent (9%) of total carbon in the AGBG Living and AG Standing Dead pools. This procedure is further described in Section 5.1 and 5.2.

The purpose of the URS is to establish a dedicated carbon pool that can be depleted to account for carbon removed from the project boundary due to limited harvesting activities in-line with the policies of Forest Carbon Works, such as limited continuous thinning, group selection, or patch cuts (IFM 1), which aim to maintain forest vigor and improve structural characteristics to the benefit of added carbon removal by residual trees over time. Annex Q describes the harvest policy of Forest Carbon Works.

Maintenance of Accuracy

The URS does not negatively impact the accuracy of quantified emissions reductions and removals as there was no change in the calculation of uncertainty. The calculation of uncertainty included the URS (Annex W).

Conservativeness of Quantification

The deduction of URS from the initial carbon stock was conservative because it reduced crediting of emissions in the baseline scenario relative to the outcome where it had not been deducted. The tables below provide a comparison of the VCUs eligible for issuance between the with and without URS accounting scenarios, including relevant intermediate calculations. These tables show that the quantity of VCUs eligible for issuance is 88,496 with the URS compared to 90,933 without the URS. Table values are based on inventory data collected from the PAIs included during this monitoring period. Analysis workbooks containing the underlying calculations for URS accounting scenarios have been provided to the verification body (Annex W and Annex AB). This evidence demonstrates that the methodology deviation did not result in an overestimation of net GHG emissions reductions or removals and is therefore conservative.

Table 5: With Uncredited Reserve Stock This Monitoring Period

Year	Baseline emissions or removals (tCO ₂ e)	Project emissions or removals (tCO ₂ e)	Leakage emissions (tCO ₂ e)	Uncertainty deduction (%)	Net GHG emission reductions or removals (tCO ₂ e)	Buffer pool allocation (tCO ₂ e)	VCUs eligible for issuance
2023	(4,343)	31,553	7,179	-	28,717	3,446	25,271
2024	(9,898)	79,910	17,961	-	71,847	8,621	63,225
Total	(14,241)	111,463	25,140	-	100,564	12,067	88,496

Table 6: Without Uncredited Reserve Stock

Year	Baseline emissions or removals (tCO ₂ e)	Project emissions or removals (tCO ₂ e)	Leakage emissions (tCO ₂ e)	Uncertainty deduction (%)	Net GHG emission reductions or removals (tCO ₂ e)	Buffer pool allocation (tCO ₂ e)	VCUs eligible for issuance
2023	(5,344)	31,553	7,379	-	29,518	3,542	25,976
2024	(12,358)	79,910	18,453	-	73,815	8,857	64,957
Total	(17,702)	111,463	25,832	-	103,333	12,399	90,933

3.2.2 Project Description Deviations

No deviations from the project description occurred.

3.3. Grouped Projects

The project is adding 70 project activity instances this monitoring period, see Section 1.1. The contiguous United States and southern Alaska is the geographic area defined at validation for the development of new instances (VCS 3.6.10). Baseline and additionality of new instances are based on the initial instances (VCS 3.6.11).

New activity instances are eligible for inclusion to the project where compliance against the full set of project eligibility criteria, including EC 3 and EC 6 for baseline demonstration (VCS 3.6.13) and EC 2g, EC 5, and EC 6 for demonstration of additionality (VCS 3.6.14), can be demonstrated. By new instances meeting EC2g, EC 3, EC 5, and EC6, they share the same assumptions for baseline scenario and additionality as the initial instance. Therefore, the new instances are additional and meet the common practice baseline scenario.

As all new instances being added to the project this monitoring period comply with all project eligibility criteria and are within the project's geographic region, they are eligible for inclusion (VCS 3.6.17).

The following subsections identify how each new PAI added during this monitoring period meets the project eligibility criteria as defined at validation.

Eligibility Criterion 1

The following table describes PAIs added during this monitoring period and if they encompass any peat soils; if yes, no harvesting shall be allowed during the project on these mapped peat soil areas per EC 1. See Annex A for maps of new PAIs with identified peat soils. Peat soils were identified using USDA SSURGO soil maps overlaid with project area shapefiles. Per EC 5, no harvesting shall occur on PAIs without project proponent approval; the project proponent shall not approve any harvesting on these mapped peat forest areas to comply with EC 1.

Table 7: PAI Peat Soils. See Annex A for soil maps of each PAI with identified peat soils.

PAI Number	Contains Peat Soils
1032	Yes
1049	Yes
1071	Yes
1079	No
1091	No
1092	No
1093	No
1097	No
1100	No

1104	No
1114	No
1125	No
1182	No
1099	No
1101	No
1102	No
1122	No
1103	No
1119	No
1124	No
1112	No
1105	Yes
1107	No
1126	No
1109	No
1113	No
1116	No
1115	No
1121	No
1117	No
1120	No
1110	No
1108	Yes
1111	Yes
1118	No
1123	No
1144	No
1134	No
1146	No
1147	No
1143	No
1142	No
1210	Yes
1138	Yes
1139	No
1133	Yes
1141	No
1171	Yes
1163	No
1164	No
1160	No

1161	No
1159	No
1162	No
1168	No
1172	No
1175	No
1167	No
1169	No
1170	No
1166	Yes
1185	No
1184	No
1186	No
1181	No
1183	No
1178	No
1190	No
1192	Yes
1188	No

Eligibility Criterion 2

The following table describes PAIs added during this monitoring period and if they have executed agreements meeting points a-j below. The table includes PAI ID number, confirmation of agreement execution, and Annex in which each PAI agreement can be found. All PAIs have executed agreements meeting the following:

- require that the landowner hold all timber and carbon sequestration rights;
- convey the right to claim all GHG emissions reductions or removals for the project activity to the project proponent;
- vest legal title to the forest, rights of access to the sequestered carbon (or avoided carbon emissions), current land tenure, and forest management to the project proponent;
- require that the landowner enroll all forested areas in the project, resulting in no activity shifting leakage;
- require that the landowner continue management practices that protect the credited carbon stocks over at least 60 years;
- ensure that the ownership and resource access/use rights are held by the same entity;
- require that the landowner shall abide by all federal, state, and local regulations;
- be enforceable by law;
- prohibit any action in forest management that causes any emissions, including the use of fire, without prior approval from the project proponent; and

j) representation that landowner is the sole owner to the effect that ownership is not disputed.

Table 8: PAI Membership License Agreement Signature and Annex Location

PAI Number	Executed Agreement	Annex ID of Agreement	100-year Extended Monitoring Period
1032	Yes	Annex D	Yes
1049	Yes	Annex D	Yes
1071	Yes	Annex D	No
1079	Yes	Annex D	Yes
1091	Yes	Annex D	No
1092	Yes	Annex D	No
1093	Yes	Annex D	No
1097	Yes	Annex D	Yes
1099	Yes	Annex D	Yes
1100	Yes	Annex D	Yes
1101	Yes	Annex D	Yes
1102	Yes	Annex D	No
1103	Yes	Annex D	No
1104	Yes	Annex D	Yes
1105	Yes	Annex D	Yes
1107	Yes	Annex D	Yes
1108	Yes	Annex D	Yes
1109	Yes	Annex D	No
1110	Yes	Annex D	No
1111	Yes	Annex D	Yes
1112	Yes	Annex D	No
1113	Yes	Annex D	No
1114	Yes	Annex D	Yes
1115	Yes	Annex D	Yes
1116	Yes	Annex D	Yes
1117	Yes	Annex D	No
1118	Yes	Annex D	Yes

1119	Yes	Annex D	Yes
1120	Yes	Annex D	No
1121	Yes	Annex D	Yes
1122	Yes	Annex D	No
1123	Yes	Annex D	Yes
1124	Yes	Annex D	No
1125	Yes	Annex D	Yes
1126	Yes	Annex D	Yes
1133	Yes	Annex D	Yes
1134	Yes	Annex D	Yes
1138	Yes	Annex D	No
1139	Yes	Annex D	No
1141	Yes	Annex D	No
1142	Yes	Annex D	Yes
1143	Yes	Annex D	No
1144	Yes	Annex D	Yes
1146	Yes	Annex D	Yes
1147	Yes	Annex D	Yes
1159	Yes	Annex D	No
1160	Yes	Annex D	Yes
1161	Yes	Annex D	No
1162	Yes	Annex D	No
1163	Yes	Annex D	Yes
1164	Yes	Annex D	No
1166	Yes	Annex D	Yes
1167	Yes	Annex D	No
1168	Yes	Annex D	Yes
1169	Yes	Annex D	No
1170	Yes	Annex D	Yes
1171	Yes	Annex D	No
1172	Yes	Annex D	No

1175	Yes	Annex D	Yes
1178	Yes	Annex D	Yes
1181	Yes	Annex D	Yes
1182	Yes	Annex D	No
1183	Yes	Annex D	No
1184	Yes	Annex D	Yes
1185	Yes	Annex D	Yes
1186	Yes	Annex D	No
1188	Yes	Annex D	No
1190	Yes	Annex D	No
1192	Yes	Annex D	No
1210	Yes	Annex D	No

Eligibility Criterion 3

This eligibility criterion requires each PAI added to have FVS modeled projections of management practices in the baseline and project scenarios. In both scenarios, actual and modeled harvests shall follow maximum recommended water quality protection measures and all applicable laws. In all cases, the models shall demonstrate higher levels of harvesting in the baseline scenario compared to the project scenario. The baseline model shall involve even-aged harvesting techniques such as clear cuts and seed tree, among others (see section 5.1). The baseline model shall not be unmanaged. The project model shall involve uneven-aged harvesting techniques such as patch cuts, group selection and continuous thinning (IFM 1). See Section 5 for descriptions of the baseline and project scenarios. The table below lists each PAI and if it has both project and baseline models, results of which can be found in Annex AA.

Table 9: PAI Modeling

PAI Number	FVS Model of Baseline Scenario	FVS Model of Project Scenario
1032	Yes	Yes
1049	Yes	Yes
1071	Yes	Yes
1079	Yes	Yes
1091	Yes	Yes
1092	Yes	Yes
1093	Yes	Yes
1097	Yes	Yes
1100	Yes	Yes

1104	Yes	Yes
1114	Yes	Yes
1125	Yes	Yes
1182	Yes	Yes
1099	Yes	Yes
1101	Yes	Yes
1102	Yes	Yes
1122	Yes	Yes
1103	Yes	Yes
1119	Yes	Yes
1124	Yes	Yes
1112	Yes	Yes
1105	Yes	Yes
1107	Yes	Yes
1126	Yes	Yes
1109	Yes	Yes
1113	Yes	Yes
1116	Yes	Yes
1115	Yes	Yes
1121	Yes	Yes
1117	Yes	Yes
1120	Yes	Yes
1110	Yes	Yes
1108	Yes	Yes
1111	Yes	Yes
1118	Yes	Yes
1123	Yes	Yes
1144	Yes	Yes
1134	Yes	Yes
1146	Yes	Yes
1147	Yes	Yes
1143	Yes	Yes
1142	Yes	Yes
1210	Yes	Yes
1138	Yes	Yes
1139	Yes	Yes
1133	Yes	Yes
1141	Yes	Yes
1171	Yes	Yes
1163	Yes	Yes
1164	Yes	Yes
1160	Yes	Yes

1161	Yes	Yes
1159	Yes	Yes
1162	Yes	Yes
1168	Yes	Yes
1172	Yes	Yes
1175	Yes	Yes
1167	Yes	Yes
1169	Yes	Yes
1170	Yes	Yes
1166	Yes	Yes
1185	Yes	Yes
1184	Yes	Yes
1186	Yes	Yes
1181	Yes	Yes
1183	Yes	Yes
1178	Yes	Yes
1190	Yes	Yes
1192	Yes	Yes
1188	Yes	Yes

Eligibility Criterion 4

The PAI shall fall inside the designated area of the contiguous United States including southern Alaska, and each discrete area of land shall have a unique geographic identifier. See section 1.8, “Project Location,” for maps and evidence that each PAI falls within the designated project area. See Annex C, or Table 2 for a list of PAIs and their location within the United States as evidence that all PAIs meet EC #4.

Eligibility Criterion 5

The landowner of the PAI shall execute one or more of the following:

- a) An agreement prohibiting harvesting without the prior consent of the project proponent where the project proponent maintains a policy that limits approval of harvesting to approved techniques that promote the extension of rotation age such as patch cuts, continuous thinning, or group selection practices and prohibits changing the proportion of wetland, OR
- b) An agreement to defer harvesting.

All PAIs have signed this agreement; see Table 8 above for each PAI’s agreement Annex location.

Eligibility Criterion 6

The PAI shall have a baseline scenario demonstrating that common practice is even-aged management, without the extension of rotation age, as demonstrated by the provision of a timber harvest plan (THP) comparable to the baseline model, and in the same geographic/regulatory region, to the PAI. The

common practice within the geographic regions the project area falls within is to maximize net present value to the landowner by utilizing even-aged harvesting while complying with all relevant laws and regulations. The requirements of the California Air Resources Board Compliance Offset Protocol U.S. Forest Projects (COP 2015) section 5.2.1(e)(2)(B) shall be used to define comparable (Annex I). Per COP 2015, the provided comparable harvest material align with the baseline scenario when assessed against the following attributes:

1. Slopes that use the same methods (tractor, cable, helicopter, etc) for logging.
2. Functionally equivalent zoning class(es) to the project area
3. Comparable species composition to baseline management evidenced by identical forest type.

The legality and plausibility of the baseline scenario for each PAI has been confirmed by an independent forest consulting entity in order to comply with the guidance for defining the legal baseline in Section 6.3 of VM0003, and the attestations of such are available in Annex H. As of October 2024, new attestations shall contain language that asks signees to account for local recent and projected changes to forest product demand.

By demonstrating that common practice even-aged management is the most plausible land use for the project area, it is selected as the baseline scenario.

The following table demonstrates for each PAI that the baseline scenario is common practice silviculture for the region by evidence of a comparable timber harvest plan (Annex Z). More information on the baseline scenario is in section 5.1.

Table 10: PAI Baseline and Comparable THP

PAI Number	Baseline Scenario is Common Practice	Annex Location of Comparable THP
1032	Yes	Annex Z
1049	Yes	Annex Z
1071	Yes	Annex Z
1079	Yes	Annex Z
1091	Yes	Annex Z
1092	Yes	Annex Z
1093	Yes	Annex Z
1097	Yes	Annex Z
1100	Yes	Annex Z
1104	Yes	Annex Z
1114	Yes	Annex Z
1125	Yes	Annex Z
1182	Yes	Annex Z
1099	Yes	Annex Z
1101	Yes	Annex Z
1102	Yes	Annex Z
1122	Yes	Annex Z

1103	Yes	Annex Z
1119	Yes	Annex Z
1124	Yes	Annex Z
1112	Yes	Annex Z
1105	Yes	Annex Z
1107	Yes	Annex Z
1126	Yes	Annex Z
1109	Yes	Annex Z
1113	Yes	Annex Z
1116	Yes	Annex Z
1115	Yes	Annex Z
1121	Yes	Annex Z
1117	Yes	Annex Z
1120	Yes	Annex Z
1110	Yes	Annex Z
1108	Yes	Annex Z
1111	Yes	Annex Z
1118	Yes	Annex Z
1123	Yes	Annex Z
1144	Yes	Annex Z
1134	Yes	Annex Z
1146	Yes	Annex Z
1147	Yes	Annex Z
1143	Yes	Annex Z
1142	Yes	Annex Z
1210	Yes	Annex Z
1138	Yes	Annex Z
1139	Yes	Annex Z
1133	Yes	Annex Z
1141	Yes	Annex Z
1171	Yes	Annex Z
1163	Yes	Annex Z
1164	Yes	Annex Z
1160	Yes	Annex Z
1161	Yes	Annex Z
1159	Yes	Annex Z
1162	Yes	Annex Z
1168	Yes	Annex Z
1172	Yes	Annex Z
1175	Yes	Annex Z
1167	Yes	Annex Z
1169	Yes	Annex Z

1170	Yes	Annex Z
1166	Yes	Annex Z
1185	Yes	Annex Z
1184	Yes	Annex Z
1186	Yes	Annex Z
1181	Yes	Annex Z
1183	Yes	Annex Z
1178	Yes	Annex Z
1190	Yes	Annex Z
1192	Yes	Annex Z
1188	Yes	Annex Z

Eligibility Criterion 7

Prior to the first verification event, the project area shall meet one of the following conditions: Certified to Forest Stewardship Council (FSC); OR subject to an easement, or equivalent instrument, recorded against the deed of property that prohibits commercial harvesting for the duration of the crediting period, unless later certified to FSC.

No PAIs hold FSC certification during this monitoring period, so to comply with EC 7, see Annex D for evidence of an easement or equivalent instrument in place for each PAI that prevents commercial harvesting until FSC certification.

Eligibility Criterion 8

If the landowner of the PAI was previously under contract with Natural Capital Exchange (NCX), provision of copies of all contracts between landowner and NCX prior to the first verification event is required.

The table below lists all PAIs previously under contract with NCX, and the location of the Annex where the contract is found.

Table 11: PAIs with Prior NCX Contracts

PAI Number	Prior NCX Contract	Annex Location
1034	Yes	Annex AE
1079	Yes	Annex AE
1080	Yes	Annex AE
1082	Yes	Annex AE
1105	Yes	Annex AE
1108	Yes	Annex AE
1111	Yes	Annex AE
1117	Yes	Annex AE
1121	Yes	Annex AE

1134	Yes	Annex AE
1140	Yes	Annex AE
1144	Yes	Annex AE
1159	Yes	Annex AE
1162	Yes	Annex AE
1171	Yes	Annex AE
1172	Yes	Annex AE
1181	Yes	Annex AE
1185	Yes	Annex AE
1186	Yes	Annex AE
1194	Yes	Annex AE
1196	Yes	Annex AE
1197	Yes	Annex AE
1198	Yes	Annex AE

3.4. Baseline Reassessment

Did the project undergo baseline reassessment during the monitoring period?

☐ Yes ☒ No

4. DATA AND PARAMETERS

4.1. Data and Parameters Available at Validation

Data / Parameter	ABSL, <i>i</i>	
Data unit	Hectares	
Description	Area of baseline measurement stratum, <i>i</i>	
Source of data	GIS analysis, county data, survey data	
Value Applied	Measurement stratum	Area (hectares)
	100701	16.6
	100702	11.8
	100703	1.3
	101201	87.7
	101202	92.0
	101203	97.8

	101401	634.2
	101402	344.0
	101403	123.9
	102301	94.3
	102302	12.5
	102303	19.5
	102401	3.0
	102402	28.0
	102501	3.3
	102502	23.2
	102601	15.4
	102602	10.6
	102603	7.9
	102701	113.1
	102702	29.1
	102801	11.5
	102802	25.1
	102901	37.7
	102902	15.1
	103001	26.7
	103002	4.3
	103101	37.0
	103102	7.1
	103301	99.7
	103302	18.8
	103401	187.6
	103402	63.2
	103501	22.7
	103502	14.4
	103601	64.5
	103701	15.8
	103702	11.4
	103801	62.8
	103802	37.8
	103901	24.9
	103902	14.1
	104001	100.1
	104101	21.9

	104201	52.2
	104202	154.2
	104301	3.2
	104302	7.7
	104303	5.4
	104401	8.6
	104402	29.2
	104501	84.9
	104502	24.3
	104601	30.9
	104701	46.0
	104801	10.1
	104802	3.5
	104803	5.4
	105001	34.9
	105002	10.7
	105101	10.5
	105102	5.9
	105201	24.6
	105202	25.2
	105301	7.9
	105302	24.5
	105401	12.9
	105402	4.2
	105501	31.5
	105601	38.4
	105602	59.4
	105603	80.3
	105701	168.6
	105702	41.0
	105801	21.5
	105802	33.0
	105803	26.1
	105901	206.3
	106101	20.9
	106102	18.0
	106103	17.4
	106201	34.4

	106202	48.7
	106301	44.7
	106302	108.1
	106401	54.8
	106501	31.4
	106502	8.8
	106601	49.0
	106602	37.5
	106701	104.7
	106702	24.2
	106801	38.1
	106802	35.1
	106901	78.8
	106902	14.6
	106903	20.0
	107001	69.3
	107002	203.6
	107301	41.7
	107302	4.7
	107401	128.5
	107402	171.1
	107403	31.9
	108001	30.1
	108201	46.7
	108202	2.4
	108301	23.5
	108302	17.5
	108401	383.8
	108402	80.0
	108501	34.9
	108601	22.2
	108701	77.6
	108702	59.8
	108801	32.3
	108901	14.0
	108902	6.6
	109001	27.2
	109002	58.7

	109401	17.0
	109402	37.7
	109501	121.7
	103201	15.7
	103202	6.3
	104901	27.8
	104902	31.5
	104903	17.3
	104904	53.5
	107101	7.6
	107102	212.5
	107103	57.9
	107104	8.8
	107901	58.7
	109101	232.2
	109201	134.0
	109301	354.7
	109302	314.7
	109701	34.3
	109702	41.4
	109901	20.8
	109902	29.9
	109903	54.6
	109904	22.0
	110001	55.4
	110002	13.9
	110003	35.3
	110101	44.5
	110102	32.9
	110201	17.8
	110202	4.0
	110301	16.1
	110302	27.8
	110303	19.9
	110401	38.4
	110402	4.8
	110501	32.4
	110502	104.8

	110503	245.8
	110504	44.9
	110701	2000.7
	110702	2379.8
	110801	22.4
	110802	40.5
	110803	24.7
	110901	39.6
	111001	68.1
	111101	208.9
	111102	139.0
	111201	33.5
	111202	10.9
	111301	132.0
	111401	14.2
	111402	9.9
	111403	8.2
	111501	30.2
	111502	11.2
	111601	35.0
	111602	20.8
	111701	31.0
	111702	51.1
	111801	200.8
	111802	16.6
	111803	38.6
	111901	38.2
	112001	135.1
	112002	117.2
	112101	28.3
	112102	40.9
	112201	38.1
	112202	6.2
	112301	100.9
	112302	112.8
	112401	4.9
	112402	38.9
	112501	8.0
	112601	27.4
	113301	66.0

	113401	174.5
	113402	282.5
	113801	81.2
	113901	30.0
	113902	192.7
	114101	187.6
	114102	464.0
	114103	90.0
	114201	11.7
	114202	18.1
	114301	5.5
	114302	59.9
	114303	30.1
	114401	642.7
	114402	90.2
	114601	90.9
	111403	8.2
	111501	30.2
	111502	11.2
	111601	35.0
	111602	20.8
	111701	31.0
	111702	51.1
	111801	200.8
	111802	16.6
	111803	38.6
	111901	38.2
	112001	135.1
	112002	117.2
	112101	28.3
	112102	40.9
	112201	38.1
	112202	6.2
	112301	100.9
	112302	112.8
	112401	4.9
	112402	38.9
	112501	8.0
	112601	27.4
	113301	66.0
	113401	174.5

	113402	282.5
	113801	81.2
	113901	30.0
	113902	192.7
	114101	187.6
	114102	464.0
	114103	90.0
	114201	11.7
	114202	18.1
	114301	5.5
	114302	59.9
	114303	30.1
	114401	642.7
	114402	90.2
	114601	90.9
	114701	34.1
	114702	11.5
	115901	54.8
	115902	18.9
	116001	90.3
	116002	20.9
	116101	99.6
	111702	51.1
	111801	200.8
	111802	16.6
	111803	38.6
	111901	38.2
	112001	135.1
	112002	117.2
	112101	28.3
	112102	40.9
	112201	38.1
	112202	6.2
	112301	100.9
	112302	112.8
	112401	4.9
	112402	38.9
	112501	8.0
	112601	27.4
	113301	66.0
	113401	174.5

	113402	282.5
	113801	81.2
	113901	30.0
	113902	192.7
	114101	187.6
	114102	464.0
	114103	90.0
	114201	11.7
	114202	18.1
	114301	5.5
	114302	59.9
	114303	30.1
	114401	642.7
	114402	90.2
	114601	90.9
	114701	34.1
	114702	11.5
	115901	54.8
	115902	18.9
	116001	90.3
	116002	20.9
	116101	99.6
	116201	38.2
	116202	20.8
	116301	214.6
	116302	1957.0
	116303	1647.6
	116401	114.7
	116402	214.9
	116403	333.1
	116601	176.2
	116602	391.5
	116701	38.7
	116702	18.9
	116801	29.4
	116802	89.7
	116901	13.1
	116902	9.7
	117001	130.0
	117101	54.9
	117102	32.3

	117103	21.7
	117104	14.8
	117201	69.4
	117202	17.0
	117501	155.7
	117502	40.5
	117801	17.7
	118101	23.6
	118102	10.2
	118103	32.8
	118104	42.6
	118201	46.0
	118202	69.0
	118203	18.5
	118301	31.2
	118302	16.8
	118401	16.8
	118402	13.5
	118403	14.8
	118501	37.7
	118502	13.8
	118601	25.1
	118602	6.3
	118801	80.7
	118802	48.3
	118803	25.6
	119001	41.9
	119002	43.3
	119201	64.2
	119202	103.2
	121001	19.0
Justification of choice of data or description of measurement methods and procedures applied	Using a combination of GIS and county data allowed the most accurate calculation of area. Project area calculated according to VCS Standard A1.5 by project proponent on 22 March 2023.	
Purpose of data	Determination of baseline scenario	
Comments	Annex W, Annex Y	

Data / Parameter	BEF																																				
Data unit	Dimensionless																																				
Description	Biomass expansion factor for conversion of annual net increment in stem biomass to total above ground tree biomass increment for species <i>j</i>																																				
Source of data	VM0003 Methodology v1.3 Section 8.5.1.1																																				
Value Applied	<table><tr><th>Climatic zone</th><th>Forest type</th><th>Minimum dbh (cm)</th><th>BEF₂ (overbark) to be used in connection to growing stock biomass data (Equation 3.2.3)</th><th>BEF₁ (overbark) to be used in connection to increment data (Equation 3.2.5)</th></tr><tr><td rowspan="2">Boreal</td><td>Conifers</td><td>0-8.0</td><td>1.35 (1.15-3.8)</td><td>1.15 (1-1.3)</td></tr><tr><td>Broadleaf</td><td>0-8.0</td><td>1.3 (1.15-4.2)</td><td>1.1 (1-1.3)</td></tr><tr><td rowspan="3">Temperate</td><td>Conifers: Spruce-fir</td><td>0-12.5</td><td>1.3 (1.15-4.2)</td><td>1.15 (1-1.3)</td></tr><tr><td>Pines</td><td>0-12.5</td><td>1.3 (1.15-3.4)</td><td>1.05 (1-1.2)</td></tr><tr><td>Broadleaf</td><td>0-12.5</td><td>1.4 (1.15-3.2)</td><td>1.2 (1.1-1.3)</td></tr><tr><td rowspan="2">Tropical</td><td>Pines</td><td>10.0</td><td>1.3 (1.2-4.0)</td><td>1.2 (1.1-1.3)</td></tr><tr><td>Broadleaf</td><td>10.0</td><td>3.4 (2.0-9.0)</td><td>1.5 (1.3-1.7)</td></tr></table> Source: IPCC Good Practice Guidance for Land Use, Land Use Change and Forestry (2003), Table 3A.1.10.	Climatic zone	Forest type	Minimum dbh (cm)	BEF ₂ (overbark) to be used in connection to growing stock biomass data (Equation 3.2.3)	BEF ₁ (overbark) to be used in connection to increment data (Equation 3.2.5)	Boreal	Conifers	0-8.0	1.35 (1.15-3.8)	1.15 (1-1.3)	Broadleaf	0-8.0	1.3 (1.15-4.2)	1.1 (1-1.3)	Temperate	Conifers: Spruce-fir	0-12.5	1.3 (1.15-4.2)	1.15 (1-1.3)	Pines	0-12.5	1.3 (1.15-3.4)	1.05 (1-1.2)	Broadleaf	0-12.5	1.4 (1.15-3.2)	1.2 (1.1-1.3)	Tropical	Pines	10.0	1.3 (1.2-4.0)	1.2 (1.1-1.3)	Broadleaf	10.0	3.4 (2.0-9.0)	1.5 (1.3-1.7)
Climatic zone	Forest type	Minimum dbh (cm)	BEF ₂ (overbark) to be used in connection to growing stock biomass data (Equation 3.2.3)	BEF ₁ (overbark) to be used in connection to increment data (Equation 3.2.5)																																	
Boreal	Conifers	0-8.0	1.35 (1.15-3.8)	1.15 (1-1.3)																																	
	Broadleaf	0-8.0	1.3 (1.15-4.2)	1.1 (1-1.3)																																	
Temperate	Conifers: Spruce-fir	0-12.5	1.3 (1.15-4.2)	1.15 (1-1.3)																																	
	Pines	0-12.5	1.3 (1.15-3.4)	1.05 (1-1.2)																																	
	Broadleaf	0-12.5	1.4 (1.15-3.2)	1.2 (1.1-1.3)																																	
Tropical	Pines	10.0	1.3 (1.2-4.0)	1.2 (1.1-1.3)																																	
	Broadleaf	10.0	3.4 (2.0-9.0)	1.5 (1.3-1.7)																																	
Justification of choice of data or description of measurement methods and procedures applied	Calculation process detailed in VM0003 Methodology v1.3 Section 8.5.1.1.																																				
Purpose of data	Determination of baseline scenario																																				
Comments	Annex O																																				

Data / Parameter	CF _j
Data unit	tCt ⁻¹ d.m.
Description	Carbon fraction of dry matter
Source of data	Default value from IPCC Good Practice Guidance for Land Use, Land Use Change and Forestry – Section 4.3
Value Applied	0.5 tCt ⁻¹ dry matter

Justification of choice of data or description of measurement methods and procedures applied	Recommended in VM0003 Methodology v1.3 Section 8.4. CFj used in Family Forest Carbon Project selected by project proponent
Purpose of data	Calculation of baseline emissions
Comments	

Data / Parameter	D _{DW}		
Data unit	T d.m. ft ⁻³		
Description	Basic wood density of dead wood in the density class- sound (1), intermediate (2), and rotten (3)		
Source of data	Harmon et al. 2011		
Value Applied			
	Decay Class	Standing Dead (g/cm ³)	Downed Dead (g/cm ³)
	1	0.40	0.40
	2	0.38	0.33
	3	0.35	0.26
	Average density (g/cm3) for standing dead and downed dead trees for all species and sites by decay class. Source: Harmon et al. 2011, Table 4.		
Justification of choice of data or description of measurement methods and procedures applied	Data published and used by the United States Forest Service. Recommended by VM0003 Methodology v1.3 8.5.1.2. D _{DW} used in Family Forest Carbon Project selected by project proponent on 24 April 2023.		
Purpose of data	Determination of baseline scenario		
Comments	Annex M		

Data / Parameter	D_j												
Data unit	t d.m. tree ⁻³												
Description	Basic wood density of species j												
Source of data	Miles, Patrick D.; Smith, W. Brad. 2009. Specific gravity and other properties of wood and bark for 156 tree species found in North America. Res. Note NRS-38. Newtown Square, PA: U.S. Department of Agriculture, Forest Service, Northern Research Station. 35 p.												
Value Applied	Species and region specific. Species included in initial PAI (1024) are listed below: <table> <tr> <th>Species Name</th><th>t/m³</th></tr> <tr> <td>Western red cedar</td><td>0.49</td></tr> <tr> <td>Bigleaf maple</td><td>0.86</td></tr> <tr> <td>Red alder</td><td>0.86</td></tr> <tr> <td>Black cottonwood</td><td>0.87</td></tr> <tr> <td>Cherry</td><td>0.83</td></tr> </table>	Species Name	t/m ³	Western red cedar	0.49	Bigleaf maple	0.86	Red alder	0.86	Black cottonwood	0.87	Cherry	0.83
Species Name	t/m ³												
Western red cedar	0.49												
Bigleaf maple	0.86												
Red alder	0.86												
Black cottonwood	0.87												
Cherry	0.83												
Justification of choice of data or description of measurement methods and procedures applied	Data published and used by the United States Forest Service, Research Note NRS-38: “<i>Specific Gravity and Other Properties of Wood and Bark for 156 Tree Species Found in North America</i>,” Miles and Smith 2009. Recommended by VM0003 Methodology v1.3 8.5.1.3 Method 2. D_j used in Family Forest Carbon Project selected by project proponent on 24 April 2023. All wood densities for species j used in the project are sourced from the above NRS-38.												
Purpose of data	Calculation of baseline and project carbon storage												
Comments	Annex G												

Data / Parameter	$f_j(\text{DBH}, H)$
Data unit	T d.m. tree ⁻³
Description	Allometric equation for species j linking diameter at breast height (DBH) and possible height (H) to above ground biomass of living trees

Source of data	California Air Resources Board
Value Applied	Species and region specific
Justification of choice of data or description of measurement methods and procedures applied	Equations selected are specific to all PAI regions. Data published and used by the California Air Resources Board. f_j used in Family Forest Carbon Project selected by project proponent on 24 April 2023.
Purpose of data	Determination of baseline scenario
Comments	Annex P

Data / Parameter	OF, WW
Data unit	Kg kg ⁻¹
Description	OF = Fraction of wood products that will be emitted to the atmosphere between 5 and 100 years after production; WW = Fraction of extracted biomass effectively emitted to the atmosphere during production
Source of data	Winjum et al. 1998
Value Applied	OF = Value of 0.62 given by VM0003 v1.3 for both sawnwood and paper and paperboard WW = Value of 0.19 given by VM0003 v1.3 for developed countries
Justification of choice of data or description of measurement methods and procedures applied	Values provided by VM0003 Methodology v1.3 Section 8.5.1.3 Equation 32. OF, WW used in Family Forest Carbon Project selected by project proponent on 24 April 2023.
Purpose of data	Calculation of project emissions
Comments	Annex J

Data / Parameter	Data unit	Description	Source of data	Value Applied	Justification of choice of data or description of measurement methods and procedures applied	Purpose of data	Comments
PML _{FT} Measurement Stratum 100701	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	70%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML _{FT} Measurement Stratum 100702	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	70%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML _{FT} Measurement Stratum 100703	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	70%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML _{FT} Measurement Stratum 101201	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	76%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML _{FT} Measurement Stratum 101202	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML _{FT} Measurement Stratum 101203	%	Mean merchantable biomass as a proportion of	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project

		total above ground tree biomass for each forest type					proponent
PML,FT Measurement Stratum 101401	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 101402	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 101403	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	71%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 102301	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	77%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 102302	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	58%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 102303	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	58%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent

PML,FT Measurement Stratum 102401	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	69%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 102402	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	69%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 102501	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	58%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 102502	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 102601	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	58%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 102602	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	69%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 102603	%	Mean merchantable biomass as a proportion of	VM0003 Methodology v1.3 Section 8.6.1	58%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project

		total above ground tree biomass for each forest type					proponent
PML,FT Measurement Stratum 102701	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 102702	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	71%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 102801	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	77%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 102802	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	77%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 102901	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	69%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 102902	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	70%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent

PML,FT Measurement Stratum 103001	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 103002	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	58%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 103101	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	71%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 103102	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	71%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 103301	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	76%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 103302	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	62%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 103401	%	Mean merchantable biomass as a proportion of	VM0003 Methodology v1.3 Section 8.6.1	64%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project

		total above ground tree biomass for each forest type					proponent
PML,FT Measurement Stratum 103402	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	64%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 103501	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	76%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 103502	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	77%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 103601	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	70%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 103701	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	76%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 103702	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	76%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent

PML,FT Measurement Stratum 103801	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	71%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 103802	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	71%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 103901	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	76%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 103902	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	76%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 104001	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	72%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 104101	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	71%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 104201	%	Mean merchantable biomass as a proportion of	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project

		total above ground tree biomass for each forest type					proponent
PML,FT Measurement Stratum 104202	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 104301	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	62%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 104302	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	62%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 104303	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	76%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 104401	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	76%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 104402	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	62%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent

PML,FT Measurement Stratum 104501	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 104502	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 104601	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 104701	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 104801	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 104802	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 104803	%	Mean merchantable biomass as a proportion of	VM0003 Methodology v1.3 Section 8.6.1	76%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project

		total above ground tree biomass for each forest type					proponent
PML,FT Measurement Stratum 105001	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 105002	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	77%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 105101	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	71%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 105102	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 105201	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	58%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 105202	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	77%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent

PML,FT Measurement Stratum 105301	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	76%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 105302	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	76%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 105401	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	76%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 105402	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	76%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 105501	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 105601	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	71%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 105602	%	Mean merchantable biomass as a proportion of	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project

		total above ground tree biomass for each forest type					proponent
PML,FT Measurement Stratum 105603	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	71%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 105701	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 105702	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 105801	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 105802	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	62%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 105803	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	76%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent

PML,FT Measurement Stratum 105901	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	70%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 106101	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	61%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 106102	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	61%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 106103	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	66%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 106201	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	76%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 106202	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 106301	%	Mean merchantable biomass as a proportion of	VM0003 Methodology v1.3 Section 8.6.1	70%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project

		total above ground tree biomass for each forest type					proponent
PML,FT Measurement Stratum 106302	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	70%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 106401	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	62%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 106501	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	67%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 106502	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	67%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 106601	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	58%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 106602	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	58%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent

PML,FT Measurement Stratum 106701	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	76%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 106702	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	76%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 106801	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	76%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 106802	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	62%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 106901	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	70%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 106902	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	70%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 106903	%	Mean merchantable biomass as a proportion of	VM0003 Methodology v1.3 Section 8.6.1	70%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project

		total above ground tree biomass for each forest type					proponent
PML,FT Measurement Stratum 107001	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	70%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 107002	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	70%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 107301	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	76%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 107302	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 107401	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 107402	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent

PML,FT Measurement Stratum 107403	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 108001	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	72%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 108201	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	76%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 108202	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	76%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 108301	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	76%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 108302	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	76%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 108401	%	Mean merchantable biomass as a proportion of	VM0003 Methodology v1.3 Section 8.6.1	69%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project

		total above ground tree biomass for each forest type					proponent
PML,FT Measurement Stratum 108402	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	69%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 108501	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 108601	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	76%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 108701	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	70%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 108702	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	70%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 108801	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent

PML,FT Measurement Stratum 108901	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	58%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 108902	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	76%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 109001	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	69%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 109002	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	69%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 109401	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	76%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 109402	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	76%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 109501	%	Mean merchantable biomass as a proportion of	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PML _{FT} used in Family Forest Carbon Project selected by project

		total above ground tree biomass for each forest type					proponent
PML,FT Measurement Stratum 103201	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	76%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculatio n of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 103202	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	76%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculatio n of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 104901	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	58%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculatio n of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 104902	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	58%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculatio n of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 104903	%	Mean merchantable biomass as a proportion of total above ground	VM0003 Methodology v1.3 Section 8.6.1	58%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculatio n of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent

		tree biomass for each forest type					
PML,FT Measurement Stratum 104904	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	58%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculatio n of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 107101	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	76%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculatio n of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 107102	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	58%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculatio n of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 107103	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	76%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculatio n of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 107104	%	Mean merchantable biomass as a proportion of total above ground	VM0003 Methodology v1.3 Section 8.6.1	77%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculatio n of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent

		tree biomass for each forest type					
PML,FT Measurement Stratum 107901	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	72%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 109101	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	76%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 109201	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 109301	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	76%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 109302	%	Mean merchantable biomass as a proportion of total above ground	VM0003 Methodology v1.3 Section 8.6.1	76%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent

		tree biomass for each forest type					
PML,FT Measurement Stratum 109701	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	76%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 109702	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 109901	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	61%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 109902	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	76%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 109903	%	Mean merchantable biomass as a proportion of total above ground	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent

		tree biomass for each forest type					
PML,FT Measurement Stratum 109904	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 110001	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	76%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 110002	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 110003	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 110101	%	Mean merchantable biomass as a proportion of total above ground	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent

		tree biomass for each forest type					
PML,FT Measurement Stratum 110102	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	76%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 110201	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 110202	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	58%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 110301	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	76%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 110302	%	Mean merchantable biomass as a proportion of total above ground	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent

		tree biomass for each forest type					
PML,FT Measurement Stratum 110303	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 110401	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 110402	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 110501	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	77%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 110502	%	Mean merchantable biomass as a proportion of total above ground	VM0003 Methodology v1.3 Section 8.6.1	61%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent

		tree biomass for each forest type					
PML,FT Measurement Stratum 110503	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	58%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 110504	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	76%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 110701	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	70%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 110702	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	70%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 110801	%	Mean merchantable biomass as a proportion of total above ground	VM0003 Methodology v1.3 Section 8.6.1	61%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent

		tree biomass for each forest type					
PML,FT Measurement Stratum 110802	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 110803	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	61%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 110901	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 111001	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 111101	%	Mean merchantable biomass as a proportion of total above ground	VM0003 Methodology v1.3 Section 8.6.1	76%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent

		tree biomass for each forest type					
PML,FT Measurement Stratum 111102	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	76%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 111201	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	76%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 111202	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 111301	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	69%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 111401	%	Mean merchantable biomass as a proportion of total above ground	VM0003 Methodology v1.3 Section 8.6.1	76%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent

		tree biomass for each forest type					
PML,FT Measurement Stratum 111402	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	77%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 111403	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	77%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 111501	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	76%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 111502	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	76%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 111601	%	Mean merchantable biomass as a proportion of total above ground	VM0003 Methodology v1.3 Section 8.6.1	61%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent

		tree biomass for each forest type					
PML,FT Measurement Stratum 111602	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	61%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 111701	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 111702	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 111801	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 111802	%	Mean merchantable biomass as a proportion of total above ground	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent

		tree biomass for each forest type					
PML,FT Measurement Stratum 111803	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	71%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 111901	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 112001	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	71%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 112002	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 112101	%	Mean merchantable biomass as a proportion of total above ground	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent

		tree biomass for each forest type					
PML,FT Measurement Stratum 112102	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 112201	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	70%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 112202	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	70%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 112301	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 112302	%	Mean merchantable biomass as a proportion of total above ground	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent

		tree biomass for each forest type					
PML,FT Measurement Stratum 112401	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	77%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculatio n of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 112402	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	71%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculatio n of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 112501	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	58%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculatio n of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 112601	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	76%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculatio n of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 113301	%	Mean merchantable biomass as a proportion of total above ground	VM0003 Methodology v1.3 Section 8.6.1	76%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculatio n of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent

		tree biomass for each forest type					
PML,FT Measurement Stratum 113401	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	76%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculatio n of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 113402	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculatio n of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 113801	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	61%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculatio n of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 113901	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	70%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculatio n of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 113902	%	Mean merchantable biomass as a proportion of total above ground	VM0003 Methodology v1.3 Section 8.6.1	70%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculatio n of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent

		tree biomass for each forest type					
PML,FT Measurement Stratum 114101	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 114102	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 114103	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	72%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 114201	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	76%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 114202	%	Mean merchantable biomass as a proportion of total above ground	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent

		tree biomass for each forest type					
PML,FT Measurement Stratum 114301	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	58%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculatio n of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 114302	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	58%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculatio n of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 114303	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculatio n of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 114401	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculatio n of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 114402	%	Mean merchantable biomass as a proportion of total above ground	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculatio n of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent

		tree biomass for each forest type					
PML,FT Measurement Stratum 114601	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 114701	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 114702	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 115901	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	77%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 115902	%	Mean merchantable biomass as a proportion of total above ground	VM0003 Methodology v1.3 Section 8.6.1	71%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent

		tree biomass for each forest type					
PML,FT Measurement Stratum 116001	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculatio n of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 116002	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculatio n of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 116101	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	77%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculatio n of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 116201	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	71%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculatio n of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 116202	%	Mean merchantable biomass as a proportion of total above ground	VM0003 Methodology v1.3 Section 8.6.1	72%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculatio n of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent

		tree biomass for each forest type					
PML,FT Measurement Stratum 116301	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 116302	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 116303	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	70%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 116401	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	70%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 116402	%	Mean merchantable biomass as a proportion of total above ground	VM0003 Methodology v1.3 Section 8.6.1	64%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent

		tree biomass for each forest type					
PML,FT Measurement Stratum 116403	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	77%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 116601	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	70%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 116602	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	70%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 116701	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	67%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 116702	%	Mean merchantable biomass as a proportion of total above ground	VM0003 Methodology v1.3 Section 8.6.1	67%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent

		tree biomass for each forest type					
PML,FT Measurement Stratum 116801	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	77%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 116802	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	76%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 116901	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 116902	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	76%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 117001	%	Mean merchantable biomass as a proportion of total above ground	VM0003 Methodology v1.3 Section 8.6.1	76%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent

		tree biomass for each forest type					
PML,FT Measurement Stratum 117101	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	76%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 117102	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	61%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 117103	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	61%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 117104	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	58%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 117201	%	Mean merchantable biomass as a proportion of total above ground	VM0003 Methodology v1.3 Section 8.6.1	58%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent

		tree biomass for each forest type					
PML,FT Measurement Stratum 117202	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	76%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 117501	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 117502	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	71%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 117801	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	71%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 118101	%	Mean merchantable biomass as a proportion of total above ground	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent

		tree biomass for each forest type					
PML,FT Measurement Stratum 118102	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 118103	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 118104	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 118201	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 118202	%	Mean merchantable biomass as a proportion of total above ground	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent

		tree biomass for each forest type					
PML,FT Measurement Stratum 118203	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	70%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 118301	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	67%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 118302	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	67%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 118401	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	70%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 118402	%	Mean merchantable biomass as a proportion of total above ground	VM0003 Methodology v1.3 Section 8.6.1	69%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent

		tree biomass for each forest type					
PML,FT Measurement Stratum 118403	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculatio n of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 118501	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculatio n of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 118502	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculatio n of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 118601	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculatio n of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 118602	%	Mean merchantable biomass as a proportion of total above ground	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculatio n of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent

		tree biomass for each forest type					
PML,FT Measurement Stratum 118801	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	71%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 118802	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	73%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 118803	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	70%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 119001	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	69%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 119002	%	Mean merchantable biomass as a proportion of total above ground	VM0003 Methodology v1.3 Section 8.6.1	69%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculation of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent

		tree biomass for each forest type					
PML,FT Measurement Stratum 119201	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	77%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculatio n of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 119202	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	76%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculatio n of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent
PML,FT Measurement Stratum 121001	%	Mean merchantable biomass as a proportion of total above ground tree biomass for each forest type	VM0003 Methodology v1.3 Section 8.6.1	58%	Recommended in VM0003 Methodology v1.3 section 9.1	Calculatio n of leakage	PMLFT used in Family Forest Carbon Project selected by project proponent

Data / Parameter	R		
Data unit	Kg kg ⁻¹		
Description	Root-shoot ratio appropriate for biomass increment of forest type/biome		
Source of data	2006 IPCC Guidelines for National Greenhouse Gas Inventories - Ch4 Forest Land		
Value Applied	Vegetation Type	Aboveground biomass (t/ha)	Root-to-shoot ratio, R
	Conifer forest/plantation	<50	0.40
	Conifer forest/plantation	50-150	0.29
	Conifer forest/plantation	>150	0.20
	Broadleaf	<75	0.46
	Broadleaf	75-150	0.23
	Broadleaf	>150	0.24
	Quercus spp.	>70	0.30
	Average belowground to aboveground biomass ratio (root-shoot ratio, R) in natural regeneration by broad category (tonnes dry matter). Source: Table 4.4 2006 IPCC Guidelines for National Greenhouse Gas Inventories - Ch4 Forest Land		
Justification of choice of data or description of measurement methods and procedures applied	Recommended per VM0003 Methodology v1.3. R used in the Family Forest Carbon Project selected by project proponent on 24 April 2023.		
Purpose of data	Determination of baseline scenario		
Comments	Annex N. See Section 5.2 for measurement stratum-level root to shoot ratio assignments.		
	The initial project activity instance was validated with R values from a different source (IPCC, Good Practice Guidance for Land Use,		

	Land-Use Change and Forestry, 2003.), as such the values listed above differ from the project description. Following validation a more up-to-date (and conservative) source was used for assigning R values. The R values listed above have been used for determining crediting for all monitoring periods to date.
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Data / Parameter	SLF										
Data unit	Unitless										
Description	Short-lived fraction- proportion of wood products that oxidize immediately in the first three years after harvesting										
Source of data	Winjum et al. 1998 Annex J										
Value Applied	<table> <tr> <th>Wood Product Class</th><th>SLF</th></tr> <tr> <td>Sawnwood</td><td>0.12</td></tr> <tr> <td>Woodbase panels</td><td>0.06</td></tr> <tr> <td>Other industrial roundwood</td><td>0.18</td></tr> <tr> <td>Paper and paperboard</td><td>0.24</td></tr> </table>	Wood Product Class	SLF	Sawnwood	0.12	Woodbase panels	0.06	Other industrial roundwood	0.18	Paper and paperboard	0.24
Wood Product Class	SLF										
Sawnwood	0.12										
Woodbase panels	0.06										
Other industrial roundwood	0.18										
Paper and paperboard	0.24										
Justification of choice of data or description of measurement methods and procedures applied	Recommended per VM0003 Methodology v1.3. SLF used in the Family Forest Carbon Project selected by project proponent on 24 April 2023.										
Purpose of data	Calculation of project emissions										
Comments	Annex J										

4.2. Data and Parameters Monitored

Data/ Parameter	Ai
Data unit	Hectares
Description	Area of measurement stratum i

Source of data	GIS area		
Description of measurement methods and procedures to be applied	Area defined by property boundaries, watershed boundaries, and operational unit boundaries. Monitoring and measuring was performed by project proponent. Measurement using ArcGIS software is highly accurate. Per VCS Standard 3.16.5, where measurement and monitoring equipment is used, the project proponent shall ensure the equipment is calibrated according to the equipment's specifications and/or relevant national or international standards. FCW staff and contractors will be responsible for taking measurement.		
Frequency of monitoring/recording	Annually		
Value applied	Measurement stratum	Area (hectares)	
	100701	16.6	
	100702	11.8	
	100703	1.3	
	101201	87.7	
	101202	92.0	
	101203	97.8	
	101401	634.2	
	101402	344.0	
	101403	123.9	
	102301	94.3	
	102302	12.5	
	102303	19.5	
	102401	3.0	
	102402	28.0	
	102501	3.3	
	102502	23.2	
	102601	15.4	
	102602	10.6	
	102603	7.9	
	102701	113.1	
	102702	29.1	
	102801	11.5	
	102802	25.1	
	102901	37.7	
	102902	15.1	
	103001	26.7	

	103002	4.3	
	103101	37.0	
	103102	7.1	
	103301	99.7	
	103302	18.8	
	103401	187.6	
	103402	63.2	
	103501	22.7	
	103502	14.4	
	103601	64.5	
	103701	15.8	
	103702	11.4	
	103801	62.8	
	103802	37.8	
	103901	24.9	
	103902	14.1	
	104001	100.1	
	104101	21.9	
	104201	52.2	
	104202	154.2	
	104301	3.2	
	104302	7.7	
	104303	5.4	
	104401	8.6	
	104402	29.2	
	104501	84.9	
	104502	24.3	
	104601	30.9	
	104701	46.0	
	104801	10.1	
	104802	3.5	
	104803	5.4	
	105001	34.9	
	105002	10.7	
	105101	10.5	
	105102	5.9	
	105201	24.6	
	105202	25.2	

	105301	7.9	
	105302	24.5	
	105401	12.9	
	105402	4.2	
	105501	31.5	
	105601	38.4	
	105602	59.4	
	105603	80.3	
	105701	168.6	
	105702	41.0	
	105801	21.5	
	105802	33.0	
	105803	26.1	
	105901	206.3	
	106101	20.9	
	106102	18.0	
	106103	17.4	
	106201	34.4	
	106202	48.7	
	106301	44.7	
	106302	108.1	
	106401	54.8	
	106501	31.4	
	106502	8.8	
	106601	49.0	
	106602	37.5	
	106701	104.7	
	106702	24.2	
	106801	38.1	
	106802	35.1	
	106901	78.8	
	106902	14.6	
	106903	20.0	
	107001	69.3	
	107002	203.6	
	107301	41.7	
	107302	4.7	
	107401	128.5	

	107402	171.1	
	107403	31.9	
	108001	30.1	
	108201	46.7	
	108202	2.4	
	108301	23.5	
	108302	17.5	
	108401	383.8	
	108402	80.0	
	108501	34.9	
	108601	22.2	
	108701	77.6	
	108702	59.8	
	108801	32.3	
	108901	14.0	
	108902	6.6	
	109001	27.2	
	109002	58.7	
	109401	17.0	
	109402	37.7	
	109501	121.7	
	103201	15.7	
	103202	6.3	
	104901	27.8	
	104902	31.5	
	104903	17.3	
	104904	53.5	
	107101	7.6	
	107102	212.5	
	107103	57.9	
	107104	8.8	
	107901	58.7	
	109101	232.2	
	109201	134.0	
	109301	354.7	
	109302	314.7	
	109701	34.3	
	109702	41.4	

	109901	20.8	
	109902	29.9	
	109903	54.6	
	109904	22.0	
	110001	55.4	
	110002	13.9	
	110003	35.3	
	110101	44.5	
	110102	32.9	
	110201	17.8	
	110202	4.0	
	110301	16.1	
	110302	27.8	
	110303	19.9	
	110401	38.4	
	110402	4.8	
	110501	32.4	
	110502	104.8	
	110503	245.8	
	110504	44.9	
	110701	2000.7	
	110702	2379.8	
	110801	22.4	
	110802	40.5	
	110803	24.7	
	110901	39.6	
	111001	68.1	
	111101	208.9	
	111102	139.0	
	111201	33.5	
	111202	10.9	
	111301	132.0	
	111401	14.2	
	111402	9.9	
	111403	8.2	
	111501	30.2	
	111502	11.2	
	111601	35.0	
	111602	20.8	

	111701	31.0	
	111702	51.1	
	111801	200.8	
	111802	16.6	
	111803	38.6	
	111901	38.2	
	112001	135.1	
	112002	117.2	
	112101	28.3	
	112102	40.9	
	112201	38.1	
	112202	6.2	
	112301	100.9	
	112302	112.8	
	112401	4.9	
	112402	38.9	
	112501	8.0	
	112601	27.4	
	113301	66.0	
	113401	174.5	
	113402	282.5	
	113801	81.2	
	113901	30.0	
	113902	192.7	
	114101	187.6	
	114102	464.0	
	114103	90.0	
	114201	11.7	
	114202	18.1	
	114301	5.5	
	114302	59.9	
	114303	30.1	
	114401	642.7	
	114402	90.2	
	114701	34.1	
	114702	11.5	
	115901	54.8	
	115902	18.9	
	116001	90.3	
	116002	20.9	
	116101	99.6	

	116201	38.2	
	116202	20.8	
	116301	214.6	
	116302	1957.0	
	116303	1647.6	
	116401	114.7	
	116402	214.9	
	116403	333.1	
	116601	176.2	
	116602	391.5	
	116701	38.7	
	116702	18.9	
	116801	29.4	
	116802	89.7	
	116901	13.1	
	116902	9.7	
	117001	130.0	
	117101	54.9	
	117102	32.3	
	117103	21.7	
	117104	14.8	
	117201	69.4	
	117202	17.0	
	117501	155.7	
	117502	40.5	
	118101	23.6	
	118102	10.2	
	118103	32.8	
	118104	42.6	
	118201	46.0	
	118202	69.0	
	118203	18.5	
	118301	31.2	
	118302	16.8	
	118401	16.8	
	118402	13.5	
	118403	14.8	
	118501	37.7	
	118502	13.8	
	118601	25.1	
	118602	6.3	

	118801	80.7	
	118802	48.3	
	118803	25.6	
	119001	41.9	
	119002	43.3	
	119201	64.2	
	119202	103.2	
	121001	26.3	
Monitoring equipment	ArcGIS software		
QA/QC procedures to be applied	Geospatial boundaries were checked to confirm accuracy through the use of management plans, official surveys and publicly available data. Aerial imagery was used to check for agreement with digitized boundaries. Online tax maps were also checked for agreement with ownership boundaries. Project shapefiles are kept current and backed up.		
Purpose of data	Calculation of project emissions		
Calculation method	ArcGIS “Calculate Geometry” & “Summary Statistics” tools		
Comments	Annex W, Annex Y		

Data/ Parameter	Ap
Data unit	Hectares/Acres
Description	Area of sample plot
Source of data	See section 4.3 for Monitoring Plan
Description of measurement methods and procedures to be applied	Plots measured in accordance with standard forest measurement practices. Project proponent will be responsible for performing measurement. Monitoring and measuring will be performed by project proponent. Further description of measurement methods can be found in section 5.3. Per VCS Standard 3.16.5, where measurement and monitoring equipment is used, the project proponent shall ensure the equipment is calibrated according to the equipment’s specifications and/or relevant national or

	international standards. FCW staff and contractors will be responsible for taking measurement.										
Frequency of monitoring/ recording	At least prior to baseline reassessment										
Value applied	5.1m (16.7 ft) (1/123.5 Hectares 1/50 acre)										
Monitoring equipment	Measuring tape, laser or equivalent to establish plot radius										
QA/QC procedures to be applied	<table> <tr> <th>Stage</th><th>QA/QC Step</th></tr> <tr> <td>Inventory</td><td>Field instruments were calibrated before and will be throughout the inventory to ensure the collection of the most accurate and precise data.</td></tr> <tr> <td>Inventory</td><td>Project proponent ensures that foresters follow behind forestry technicians checking their measurements on a sample of plots until they are sure proper techniques are being used and the quality of measurements suffices</td></tr> <tr> <td>Data Checks</td><td>Inventory data are sent to project proponent and reviewed for data accuracy. Feedback is given to the project proponent's forester regarding this data. The data is entered into the treelist workbook. This data is backed up on project proponent's servers</td></tr> <tr> <td>Data Checks</td><td>Data is compiled to ensure that all allocated plots have been visited and measurements have been taken.</td></tr> </table>	Stage	QA/QC Step	Inventory	Field instruments were calibrated before and will be throughout the inventory to ensure the collection of the most accurate and precise data.	Inventory	Project proponent ensures that foresters follow behind forestry technicians checking their measurements on a sample of plots until they are sure proper techniques are being used and the quality of measurements suffices	Data Checks	Inventory data are sent to project proponent and reviewed for data accuracy. Feedback is given to the project proponent's forester regarding this data. The data is entered into the treelist workbook. This data is backed up on project proponent's servers	Data Checks	Data is compiled to ensure that all allocated plots have been visited and measurements have been taken.
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Inventory	Project proponent ensures that foresters follow behind forestry technicians checking their measurements on a sample of plots until they are sure proper techniques are being used and the quality of measurements suffices										
Data Checks	Inventory data are sent to project proponent and reviewed for data accuracy. Feedback is given to the project proponent's forester regarding this data. The data is entered into the treelist workbook. This data is backed up on project proponent's servers										
Data Checks	Data is compiled to ensure that all allocated plots have been visited and measurements have been taken.										
Purpose of data	Calculation of project emissions										
Calculation method	Varies by stand										
Comments	Fixed radius plot design										

Data/ Parameter	DM _{n,l,t}
Data unit	Cm (In.)

Description	Diameter of piece n of dead wood along the transect in measurement stratum i , at time t										
Source of data	Field measurement in sample transects										
Description of measurement methods and procedures to be applied	Project proponent is responsible for performing measurement. Further description of measurement methods and procedures can be found in Harmon & Sexton 1996 (Annex M). FCW staff and contractors are responsible for taking measurement.										
Frequency of monitoring/recording	At least prior to baseline reassessment										
Value applied	Specific to each piece of dead wood along the transect in measurement stratum i , at time t										
Monitoring equipment	Logger tape or laser										
QA/QC procedures to be applied	<table> <tr> <th>Stage</th><th>QA/QC Step</th></tr> <tr> <td>Inventory</td><td>Field instruments were calibrated before and will be throughout the inventory to ensure the collection of the most accurate and precise data.</td></tr> <tr> <td>Inventory</td><td>Project proponent ensures that foresters follow behind forestry technicians checking their measurements on a sample of plots until they are sure proper techniques are being used and the quality of measurements suffices</td></tr> <tr> <td>Data Checks</td><td>Inventory data are sent to project proponent and reviewed for data accuracy. Feedback is given to the project proponent's forester regarding this data. The data is entered into the treelist workbook. This data is backed up on project proponent's servers</td></tr> <tr> <td>Data Checks</td><td>Data is compiled to ensure that all allocated plots have been visited and measurements have been taken.</td></tr> </table>	Stage	QA/QC Step	Inventory	Field instruments were calibrated before and will be throughout the inventory to ensure the collection of the most accurate and precise data.	Inventory	Project proponent ensures that foresters follow behind forestry technicians checking their measurements on a sample of plots until they are sure proper techniques are being used and the quality of measurements suffices	Data Checks	Inventory data are sent to project proponent and reviewed for data accuracy. Feedback is given to the project proponent's forester regarding this data. The data is entered into the treelist workbook. This data is backed up on project proponent's servers	Data Checks	Data is compiled to ensure that all allocated plots have been visited and measurements have been taken.
Stage	QA/QC Step										
Inventory	Field instruments were calibrated before and will be throughout the inventory to ensure the collection of the most accurate and precise data.										
Inventory	Project proponent ensures that foresters follow behind forestry technicians checking their measurements on a sample of plots until they are sure proper techniques are being used and the quality of measurements suffices										
Data Checks	Inventory data are sent to project proponent and reviewed for data accuracy. Feedback is given to the project proponent's forester regarding this data. The data is entered into the treelist workbook. This data is backed up on project proponent's servers										
Data Checks	Data is compiled to ensure that all allocated plots have been visited and measurements have been taken.										
Purpose of data	Calculation of project emissions										
Calculation method	Measured										

Comments	Lying dead wood pool conservatively excluded for project, but included in baseline	
Data/ Parameter	DBH	
Data unit	Cm (In.)	
Description	Diameter at breast height of tree 1.4 m (4.5 ft. above the ground)	
Source of data	Field measurements in sample plots	
Description of measurement methods and procedures to be applied	Project proponent is responsible for performing measurement and monitoring. DBH measurements were taken for all trees within sample plots that were at least 12.7 cm (5 inches) in diameter. Collection of DBH measurements was facilitated through the use of a proprietary hardware device. Further description of measurement methods using proprietary hardware and software can be found in section 4.3. Per VCS Standard 3.16.5, where measurement and monitoring equipment is used, the project proponent shall ensure the equipment is calibrated according to the equipment's specifications and/or relevant national or international standards. FCW staff and contractors will be responsible for taking measurement.	
Frequency of monitoring/ recording	At least prior to baseline reassessment	
Value applied	Specific to each measurement taken	
Monitoring equipment	FCW proprietary hardware device and inventory management software	
QA/QC procedures to be applied	Stage	QA/QC Step
	Inventory	Field instruments were calibrated before and will be throughout the inventory to ensure the collection of the most accurate and precise data.
	Inventory	Project proponent ensures that foresters follow behind forestry technicians checking their measurements on a sample of plots until they are sure proper techniques are being used and the quality of measurements suffices

	Data Checks	Inventory data are sent to project proponent and reviewed for data accuracy. Feedback is given to the project proponent's forester regarding this data. The data is entered into the treelist workbook. This data is backed up on project proponent's servers
	Data Checks	Data is compiled to ensure that all allocated plots have been visited and measurements have been taken.
Purpose of data	Calculation of project emissions	
Calculation method	Measured prior to baseline reassessment; modelled in FVS for forecasting.	
Comments		

Data/ Parameter	H
Data unit	M (Ft.)
Description	Height of tree
Source of data	Field measurements in sample plots
Description of measurement methods and procedures to be applied	Project proponent is responsible for performing measurement and monitoring. Height measurements were taken for trees within sample plots. Collection of height measurements was facilitated using a proprietary hardware device. A further description of measurement methods using FCW proprietary hardware and software can be found in section 4.3. Per VCS Standard 3.16.5., where measurement and monitoring equipment is used, the project proponent shall ensure the equipment is calibrated according to the equipment's specifications and/or relevant national or international standards. FCW staff and contractors will be responsible for taking measurement.
Frequency of monitoring/ recording	At least prior to baseline reassessment
Value applied	Specific to each tree measured

Monitoring equipment	FCW proprietary hardware device and inventory management software	
QA/QC procedures to be applied	Stage	QA/QC Step
	Inventory	Field instruments were calibrated before and will be throughout the inventory to ensure the collection of the most accurate and precise data.
	Inventory	Project proponent ensures that foresters follow behind forestry technicians checking their measurements on a sample of plots until they are sure proper techniques are being used and the quality of measurements suffices
	Data Checks	Inventory data are sent to project proponent and reviewed for data accuracy. Feedback is given to the project proponent's forester regarding this data. The data is entered into the treelist workbook. This data is backed up on project proponent's servers
	Data Checks	Data is compiled to ensure that all allocated plots have been visited and measurements have been taken.
Purpose of data	Calculation of project emissions	
Calculation method	Measured prior to baseline reassessment, otherwise modelled using FVS for forecasting.	
Comments		

Data/ Parameter	L
Data unit	M (Ft.)
Description	Length of the transect to determine volume of lying dead wood
Source of data	Field measurements in sample transects
Description of measurement methods and procedures to be applied	Project proponent was responsible for performing measurement. Monitoring and measuring were performed by the project proponent. Measurement methods and procedures follow guidelines by Harmon & Sexton 1996 (Annex M). Per VCS Standard 3.16.5, where measurement and monitoring equipment is used, the project proponent shall ensure the equipment is calibrated

	according to the equipment's specifications and/or relevant national or international standards. FCW staff and contractors will be responsible for taking measurement.	
Frequency of monitoring/recording	At least prior to baseline reassessment	
Value applied	See Annex M	
Monitoring equipment	Logger tape or laser	
QA/QC procedures to be applied	Stage	QA/QC Step
	Inventory	Field instruments were calibrated before and will be throughout the inventory to ensure the collection of the most accurate and precise data.
	Inventory	Project proponent ensures that foresters follow behind forestry technicians checking their measurements on a sample of plots until they are sure proper techniques are being used and the quality of measurements suffices
	Data Checks	Inventory data are sent to project proponent and reviewed for data accuracy. Feedback is given to the project proponent's forester regarding this data. The data is entered into the treelist workbook. This data is backed up on project proponent's servers
	Data Checks	Data is compiled to ensure that all allocated plots have been visited and measurements have been taken.
Purpose of data	Calculation of project emissions	
Calculation method	Measured	
Comments		

Data/ Parameter	N
Data unit	Dimensionless
Description	Total number of wood pieces intersecting the transect

Source of data	Field measurements in sample transects	
Description of measurement methods and procedures to be applied	Project proponent was responsible for performing measurement. Monitoring and measuring were performed by project proponent. Measurement methods and procedures shall follow guidelines by Harmon & Sexton 1996 (Annex M). Per VCS Standard 3.16.5, where measurement and monitoring equipment is used, the project proponent shall ensure the equipment is calibrated according to the equipment's specifications and/or relevant national or international standards. FCW staff and contractors are responsible for taking measurement.	
Frequency of monitoring/recording	At least prior to baseline reassessment	
Value applied	Specific to each transect measured	
Monitoring equipment	Go-no-go Fuel Sizing Gauge	
QA/QC procedures to be applied	Stage	QA/QC Step
	Inventory	Field instruments were calibrated before and will be throughout the inventory process to ensure the collection of the most accurate and precise data.
	Inventory	Project proponent ensures that foresters follow behind forestry technicians checking their measurements on a sample of plots until they are sure proper techniques are being used and the quality of measurements suffices
	Data Checks	Inventory data are sent to project proponent and reviewed for data accuracy. Feedback is given to the project proponent's forester regarding this data. The data is entered into the treelist workbook. This data is backed up on project proponent's servers
	Data Checks	Data is compiled to ensure that all allocated plots have been visited and measurements have been taken.
Purpose of data	Calculation of project emissions	
Calculation method	See Annex M.	

Comments		
Data/ Parameter	PMP _i	
Data unit	%	
Description	Merchantable biomass as a proportion of total above ground tree biomass for measurement stratum i within the project boundaries	
Source of data	Inventory data	
Description of measurement methods and procedures to be applied	Calculate merchantable biomass and total above ground biomass following VM0003 Methodology v1.3 Section 9.1. Project proponent is responsible for monitoring and measurement. FCW staff and contractors will be responsible for taking measurement.	
Frequency of monitoring/ recording	At least prior to baseline reassessment	
Value applied	Measurement stratum	PMP _i
	100701	33%
	100702	30%
	100703	0%
	101201	32%
	101202	36%
	101203	34%
	101401	34%
	101402	31%
	101403	34%
	102301	48%
	102302	44%
	102303	41%
	102401	0%

	102402	24%	
	102501	0%	
	102502	57%	
	102601	25%	
	102602	20%	
	102603	11%	
	102701	29%	
	102702	29%	
	102801	48%	
	102802	54%	
	102901	27%	
	102902	22%	
	103001	49%	
	103002	26%	
	103101	68%	
	103102	65%	
	103301	26%	
	103302	23%	
	103401	16%	
	103402	11%	
	103501	30%	
	103502	23%	
	103601	29%	
	103701	32%	
	103702	26%	
	103801	33%	
	103802	38%	
	103901	31%	
	103902	34%	
	104001	30%	
	104101	25%	
	104201	37%	
	104202	34%	
	104301	22%	
	104302	26%	
	104303	34%	
	104401	27%	
	104402	33%	

	104501	29%	
	104502	31%	
	104601	32%	
	104701	37%	
	104801	29%	
	104802	37%	
	104803	23%	
	105001	32%	
	105002	28%	
	105101	20%	
	105102	29%	
	105201	22%	
	105202	23%	
	105301	22%	
	105302	28%	
	105401	70%	
	105402	71%	
	105501	61%	
	105601	28%	
	105602	35%	
	105603	29%	
	105701	52%	
	105702	28%	
	105801	31%	
	105802	33%	
	105803	34%	
	105901	28%	
	106101	46%	
	106102	46%	
	106103	45%	
	106201	24%	
	106202	31%	
	106301	30%	
	106302	31%	
	106401	24%	
	106501	24%	
	106502	30%	
	106601	26%	

	106602	12%
	106701	31%
	106702	32%
	106801	32%
	106802	23%
	106901	21%
	106902	30%
	106903	26%
	107001	27%
	107002	29%
	107301	25%
	107302	27%
	107401	32%
	107402	34%
	107403	33%
	108001	31%
	108201	30%
	108202	34%
	108301	32%
	108302	32%
	108401	41%
	108402	30%
	108501	58%
	108601	31%
	108701	29%
	108702	27%
	108801	31%
	108901	36%
	108902	41%
	109001	40%
	109002	34%
	109401	32%
	109402	32%
	109501	33%
	103201	63%
	103202	54%
	104901	16%
	104902	11%

	104903	27%
	104904	19%
	107101	56%
	107102	37%
	107103	55%
	107104	59%
	107901	37%
	109101	31%
	109201	38%
	109301	29%
	109302	33%
	109701	32%
	109702	28%
	109901	25%
	109902	26%
	109903	32%
	109904	32%
	110001	32%
	110002	31%
	110003	31%
	110101	29%
	110102	32%
	110201	24%
	110202	20%
	110301	18%
	110302	5%
	110303	23%
	110401	32%
	110402	34%
	110501	54%
	110502	55%
	110503	39%
	110504	48%
	110701	29%
	110702	30%
	110801	51%
	110802	61%
	110803	34%

	110901	34%
	111001	34%
	111101	31%
	111102	30%
	111201	27%
	111202	25%
	111301	42%
	111401	32%
	111402	23%
	111403	25%
	111501	30%
	111502	27%
	111601	24%
	111602	24%
	111701	35%
	111702	34%
	111801	31%
	111802	0%
	111803	32%
	111901	36%
	112001	35%
	112002	33%
	112101	31%
	112102	34%
	112201	10%
	112202	18%
	112301	31%
	112302	34%
	112401	48%
	112402	53%
	112501	22%
	112601	31%
	113301	32%
	113401	30%
	113402	33%
	113801	0%
	113901	15%
	113902	27%
	114101	35%

	114102	32%
	114103	29%
	114201	35%
	114202	32%
	114301	22%
	114302	32%
	114303	36%
	114401	37%
	114402	32%
	114601	33%
	114701	22%
	114702	35%
	115901	31%
	115902	33%
	116001	37%
	116002	28%
	116101	33%
	116201	29%
	116202	35%
	116301	27%
	116302	24%
	116303	27%
	116401	26%
	116402	29%
	116403	32%
	116601	27%
	116602	27%
	116701	28%
	116702	33%
	116801	25%
	116802	35%
	116901	35%
	116902	31%
	117001	41%
	117101	50%
	117102	49%
	117103	40%
	117104	51%
	117201	59%

	117202	51%
	117501	33%
	117502	0%
	117801	34%
	118101	31%
	118102	36%
	118103	29%
	118104	34%
	118201	27%
	118202	23%
	118203	0%
	118301	3%
	118302	17%
	118401	33%
	118402	28%
	118403	34%
	118501	35%
	118502	33%
	118601	32%
	118602	33%
	118801	32%
	118802	31%
	118803	27%
	119001	20%
	119002	32%
	119201	23%
	119202	27%
	121001	39%
	PMP _i was calculated by dividing merchantable biomass (total gross biomass of a tree 12.7 cm (5 in) DBH or larger from a 30.48 cm (1 ft) stump to either the minimum of 10.16 cm (4 in) top DOB of the central stem or the highest merchantable height of the central stem. Trees were not considered merchantable if they were not a species that is commercially harvested in the region or have bole forms that would prevent efficient milling of wood products from taking place) by total biomass in the project area.	
Monitoring equipment	N/A	

QA/QC procedures to be applied	Calculations are double checked for accuracy.
Purpose of data	Calculation of market effects leakage
Calculation method	Divide merchantable biomass by the total above ground biomass
Comments	Annex W The initial project activity instance was validated with incorrect ex-ante PMP _i values, as such the values listed above differ from the project description. Ex-post values listed above were used in calculating carbon emissions this monitoring period.

Data/ Parameter	URS	
Data unit	tCO2e	
Description	Uncredited Reserve Stock	
Source of data	Inventory data	
Description of measurement methods and procedures to be applied	Nine percent (9%) of initial carbon stock per VM0003 Methodology v1.3 Section 9.1. Project proponent is responsible for monitoring and measurement.	
Frequency of monitoring/ recording	Upon the addition of each new PAI to the grouped project	
Value applied	PAI	URS (tCO2e)
	1007	1676.45
	1012	8720.11
	1014	38359.41
	1023	540.17
	1024	1701.70
	1025	150.41
	1026	603.79
	1027	3239.83
	1028	303.82
	1029	2236.93
	1030	303.06

	1031	320.34	
	1033	7236.44	
	1034	1024.98	
	1035	1218.31	
	1036	3852.12	
	1037	1085.11	
	1038	4986.35	
	1039	1103.01	
	1040	2058.65	
	1041	680.81	
	1042	8199.21	
	1043	285.72	
	1044	1382.73	
	1045	1294.91	
	1046	439.17	
	1047	1628.90	
	1048	918.02	
	1050	1136.01	
	1051	466.08	
	1052	1078.11	
	1053	718.55	
	1054	296.23	
	1055	395.82	
	1056	6918.56	
	1057	3189.85	
	1058	5013.52	
	1059	13357.86	
	1061	199.11	
	1062	4093.04	
	1063	20496.06	
	1064	739.39	
	1065	2466.75	
	1066	1709.13	
	1067	3094.07	
	1068	2201.62	
	1069	5870.15	
	1070	3782.62	
	1073	1757.22	

	1074	8133.18	
	1080	1158.75	
	1082	1563.09	
	1083	1662.76	
	1084	6845.21	
	1085	347.52	
	1086	640.35	
	1087	11267.29	
	1088	1252.06	
	1089	210.15	
	1090	6719.12	
	1094	2273.73	
	1095	7283.61	
	1032	200.93	
	1049	1205.57	
	1079	1291.31	
	1091	8579.72	
	1092	8515.78	
	1093	27268	
	1097	1438.69	
	1099	7004.49	
	1101	4995.07	
	1102	407.694	
	1103	760.889	
	1114	1462.24	
	1115	743.511	
	1117	3377.78	
	1119	2015.98	
	1122	2855.09	
	1123	5745.74	
	1126	878.327	
	1032	306.86	
	1049	1208.40	
	1071	2462.31	
	1079	1284.76	
	1091	8544.41	
	1092	8474.59	
	1093	27284.36	

	1097	1400.31	
	1099	6996.65	
	1100	4045.77	
	1101	4989.54	
	1102	407.25	
	1103	754.61	
	1104	689.95	
	1105	3258.92	
	1107	58848.12	
	1108	327.98	
	1109	1070.69	
	1110	1917.22	
	1111	10477.58	
	1112	1074.68	
	1113	2445.37	
	1114	1458.79	
	1115	741.63	
	1116	1001.60	
	1117	3372.38	
	1118	4360.53	
	1119	2004.43	
	1120	5995.84	
	1121	5165.91	
	1122	2851.88	
	1123	5728.38	
	1124	405.95	
	1125	18.74	
	1126	738.76	
	1133	2324.40	
	1134	12049.33	
	1138	2380.01	
	1139	2572.61	
	1141	10107.23	
	1142	1158.08	
	1143	2735.32	
	1144	33279.51	
	1146	2166.82	
	1147	698.41	

	1159	845.57	
	1160	4965.66	
	1161	2254.80	
	1162	1483.15	
	1163	25958.59	
	1164	34594.03	
	1166	11100.85	
	1167	1833.89	
	1168	3270.11	
	1169	589.53	
	1170	965.87	
	1171	967.86	
	1172	464.97	
	1175	1361.70	
	1178	515.14	
	1181	2850.69	
	1182	17178.99	
	1183	1996.49	
	1184	655.47	
	1185	1596.59	
	1186	1048.33	
	1188	8240.30	
	1190	4132.13	
	1192	2513.47	
	1210	19.28	
Monitoring equipment	N/A		
QA/QC procedures to be applied	Calculations are double checked for accuracy.		
Purpose of data	Account for emissions from limited harvesting to promote forest health according to the policies of Forest Carbon Works, such as continuous thinning, group selection, or patch cuts (IFM 1).		
Calculation method	9% of total carbon stock in living and standing dead trees		
Comments	See Annex W		

Data/ Parameter	T
Data unit	year
Description	Number of years between monitoring period time t_2 and t_1 ($T = t_2 - t_1$)
Source of data	Monitoring reports
Description of measurement methods and procedures to be applied	Calculated by subtracting the monitoring period start year t_1 from the current monitoring period year t_2 . Monitoring and measuring performed by project proponent.
Frequency of monitoring/ recording	Each reporting period
Value applied	Specific to each monitoring period
Monitoring equipment	Calendar
QA/QC procedures to be applied	Calculations are double checked for accuracy
Purpose of data	Calculation of project emissions
Calculation method	$T = t_2 - t_1$
Comments	

4.3. Monitoring Plan

The objective of the monitoring plan is to provide an overview of the procedures and timing planned for the collection, organization, and processing of relevant data and parameters listed in Section 4.2.

Field data collection was conducted using a smartphone application named Oxylus and data was processed by using a desktop computer program called Nephos. Information on the use of these technologies, including the calibration of equipment and internal auditing, is provided in Annex L. Field data collection methods are informed by the United States Forest Service's Forest Inventory Analysis (FIA) program, also available in Annex L. No non-conformities were identified during quality control procedures.

Fixed-area sample plots were assigned within each instance, with the location randomly allocated. The targeted precision level for biomass estimation across the project is +/- 10% of the mean at a 90%

confidence level. Currently, the project is within +/- 6.6% of the mean at a 90% confidence level. The initial sampling intensity was determined based on ex-ante estimations input to the “Calculation of the number of sample plots for measurements within A/R CDM project activities Version: 02.1.0” tool (Annex AP). Depending on forest characteristics, plots may have a radius between 3.6 meters | 1/247.1 ha (11.8 feet | 1/100 ac) and 5.1 meters | 1/123.6 ha (16.7 feet | 1/50 ac).

When determining whether a tree is within a plot, the distance from the plot center to the center (pith) of the tree at breast height was measured. Note that trees that are partially within the plot radius but do not have their centers within this radius were not included. Measurements of plot radius were taken horizontally.

The following data was gathered for each living and dead tree greater than or equal to 12.7 cm (5 in) in diameter that falls within a given plot radius:

- Species
- Distance from plot center (m)
- Azimuth from plot center (degrees)
- Tree status – living or dead. If dead, the decay class will be designated
- Total height (m)
- Merchantable height, if applicable (m)
- Height to dead or broken top, if present (m)
- Diameter at breast height (cm)
- Missing biomass (%)

Each allocated plot was located in the field using a GPS device and a chance device. Once located as precisely as possible, the field cruiser closed their eyes, spun around, and randomly threw a hat or object over their shoulder as the chance device; the object’s landing point was then taken as the center of the plot for measurement. Plot border-line trees were determined post process using the horizontal distance to the face of each tree, DBH measurements, and notes from the cruiser. If necessary, plots were revisited in order to confirm determinations of in or out trees. Azimuth including declination was recorded for all trees.

If a plot landed along a distinct edge, no steps were carried out by the field cruiser other than to make note that the plot landed along a distinct edge and complete the plot as normal. With the GPS location, the distance and azimuth of each tree in the plot, as well as additional records of trees both on and off the plot, the plot layout was reconstructed using photogrammetry, and the mirage method was applied post inventory process if necessary.

Non-stocked plots were not treated differently from stocked plots. The Project Area was not revised as a

result of non-stocked plots; non-stocked plots simply made no contribution to carbon stock estimates, though they were still included in the inventory.

In addition to tree attribute data collected during the inventory, the lying dead wood pool was monitored using the Harmon and Sexton 1996 method, Annex M, as described in the VM0003 Methodology.

Following VM0003 Section 9.3, where PAIs are not homogeneous, each PAI project area shall be stratified into homogeneous units to increase measurement precision of carbon stock, as defined in Section 5. The creation of measurement strata shall always be completed ex-ante using aerial imagery datasets and, where available. Both the baseline and project scenarios use the same measurement stratification. There are currently 281 measurement strata in the project.

Where measurement stratification was implemented, the stratified sampling frame was independent of observed plot data. For the purpose of the estimation of carbon stocks, the number of strata and strata boundaries is irrelevant so as long as every sample unit is assigned to a stratum. To reduce sample size and improve the precision of the carbon stock estimate for a given sample size, the sampling frame was stratified into regions of homogenous carbon stocks. Forest type was interpreted from stand typing as an indicator of regions of homogenous carbon stocks.

Per VM0003 8.1, the project activity instances were stratified prior to measurement, as stated in Sections 5, 5.1 and 5.2. Both the baseline and project scenarios used the same measurement stratification boundaries.

None of the situations outlined in the VM0003 9.3 (unexpected disturbance or forest management activities resulting in carbon loss) have taken place on the project area during this monitoring period, so ex-post stratification was not necessary.

No non-conformances with the validated monitoring plan exist at the time of verification. The project proponent shall justify any future non-conformances of the plan as a project description deviation according to the requirements of Section 3.19 of the VCS Standard. There are no project description deviations this monitoring period.

Per the VCS Standard, monitoring periods shall be distinct time periods without overlap (3.5.6) and no gaps will exist between monitoring periods (3.5.7). Overlapping and/or temporal gaps in the monitoring periods for each project activity instance are avoided through the use of an internal, digital tracking system. Start dates for each instance, along with monitoring period start and end dates are recorded and saved. As each project activity instance will have multiple monitoring periods, and new activity instances will be continuously added to the project, having all dates recorded ensures that monitoring periods are distinct time periods that do not overlap with previous monitoring periods and that there will not be gaps between monitoring periods.

Forest Carbon Works will continue managing the project throughout the project lifetime, including the ongoing monitoring, reporting, and verification of underlying data and parameters that contribute to the quantification of project greenhouse gas emission reductions and removals through the life of the project's crediting period. Forest Carbon Works will oversee inventory updates, data collection and

processing, to ensure continued project reporting and monitoring activities. All data will be saved to secure cloud-based servers regularly. Data collected as part of the monitoring activities shall be maintained for at least 2 years following the end of the project. A line diagram showing the flow of data is provided below:



The project proponent, Forest Carbon Works, is a project developer with expertise in the technical aspects of carbon offset project design, planning, and development with a focus on forest biometrics, carbon accounting methodologies, and remote sensing. Key personnel have extensive experience validating and verifying projects under the Verified Carbon Standard (VCS), California Air Resources Board (ARB), Climate Action Reserve (CAR) Standard, Gold Standard and Climate Community & Biodiversity (CCB) Standard. Key personnel are Verra-approved experts in IFM.

In terms of organization structure, the project proponent is divided into a project development team and a field team. The project development team is responsible for all quantification, modeling, and documentation associated with the project, while the field team is responsible for the forest inventory and any related field work. The field team is led by regional foresters who have extensive experience practicing forestry in their respective regions. Regional foresters will lead all on-the-ground monitoring activities that will take place during the lifetime of the project, including data collection and inventory management. Additional site visits outside of initial data collection may occur at both verification and project crediting period validation.

The project proponent was and will continue to be responsible for all oversight and accountability of monitoring activities throughout the life of the project. If contractors are used for collecting inventory data, they will be trained and supervised directly by project proponent staff.

QAQC procedures were carried out on all recorded measurements throughout the inventory process by the project proponent. All measurements were reviewed for completeness, thoroughness, and accuracy by the project proponent during and after the inventory cruise. Evaluation of tree measurements was performed using photogrammetry on image data collected in the field. During the review and processing of collected inventory data, inconsistent, seemingly erroneous, and/or otherwise insufficient data were investigated using photogrammetric methods, and, when necessary, the project proponent further consulted the forest technician. Where necessary, the forest technician revisited plots and updated inventory data.

Inventory data was checked using the following QAQC procedures:

- Assessment of unusual DBH measurements
- Assessment of unusual height measurements
- Ensuring that total height > live crown bottom height

- Ensuring that total height $\geq$ height to top kill in dead trees
- Ensuring phantom heights are used correctly for broken trees (both live and dead)
- Check DBH relative to height
- Check biomass defect to ensure no percentages over 100
- Check carbon calculations to ensure reasonable results
- Ensure all trees have proper species entries

Field instruments were calibrated before and throughout the inventory to ensure the collection of the most accurate and precise data.

PAI Number	Plot Count
1024	37
1007	143
1012	141
1014	50
1023	12
1025	13
1026	15
1027	14
1028	12
1029	12
1030	12
1031	12
1033	12
1034	12
1035	12
1036	12
1037	12
1038	12
1039	12
1040	12
1041	12
1042	12
1043	13
1044	12
1045	12
1046	12
1047	12
1048	15
1050	14

1051	12
1052	12
1053	12
1054	16
1055	12
1056	12
1057	12
1058	13
1059	38
1061	11
1062	12
1063	10
1064	12
1065	12
1066	11
1067	12
1068	12
1069	12
1070	12
1073	12
1074	31
1080	12
1082	12
1083	12
1084	40
1085	12
1086	12
1087	12
1088	12
1089	11
1090	12
1094	12
1095	10
1032	15
1049	12
1071	30
1079	12
1091	12
1092	12
1093	39
1097	12
1099	20

1100	12
1101	12
1102	12
1103	12
1104	11
1105	40
1107	40
1108	10
1109	12
1110	12
1111	12
1112	12
1113	12
1114	12
1115	12
1116	12
1117	12
1118	14
1119	12
1120	12
1121	12
1122	12
1123	11
1124	12
1125	5
1126	12
1133	12
1134	40
1139	11
1141	39
1142	11
1143	12
1144	40
1146	12
1147	12
1159	9
1160	12
1161	12
1162	12
1163	40
1164	39
1166	40

1167	12
1168	11
1169	11
1170	12
1171	16
1172	12
1175	11
1178	12
1181	16
1182	34
1183	12
1184	12
1185	12
1186	12
1188	12
1190	12
1192	12
1210	12
Total	2,356

5. QUANTIFICATION OF GHG EMISSION REDUCTIONS AND REMOVALS

In adherence to VM0003 Sections 9.3 and 8.1, the project proponent has chosen to implement dual stratification within the project area. The initial form of stratification aligns with Section 9.3, aiming to enhance measurement precision by dividing the project area into relatively uniform units known as measurement strata. The subsequent form of stratification adheres to Section 8.1 of the methodology, incorporating “with further division where differences exist in site index, species and/or age class,” while also recognizing distinctions in forest management systems. This second type of stratification is denoted as management strata. Both stratification approaches are employed for the purpose of estimating greenhouse gas emissions reductions and removals within the project.

5.0.1 Measurement Strata

In accordance with VM0003 9.3, the project area underwent initial ex-ante stratification to enhance the precision of carbon stock measurements in instances where the carbon stock is not uniformly distributed. The project proponent utilizes the National Agriculture Imagery Program (NAIP) along with other aerial imagery datasets to identify variations in forest structure and species composition, facilitating the sampling process. This initial step involves partitioning the project area into regions characterized by homogeneous forest types, thereby establishing measurement strata.

All references to variable i in the VM0003 equations refer to measurement strata, and all references to “stratum” or “strata” in all Annex documents refer to measurement strata.

It can be confirmed that measurement strata without harvesting in the baseline do not contribute to crediting by assessing the input values in the ERR accounting workbook (Annex AB). Accounting input values that impact crediting - such as $\Delta\text{C}_{\text{BSL},\text{tree},i,t}$ (tC/ac/yr) and $\Delta\text{C}_{\text{tree},i,t}$ (tC/ac/yr) - will contain zeros for measurement strata without baseline harvesting.

Table 12 below lists each measurement strata and their respective areas in hectares.

Table 12: Measurement strata and respective area

Measurement Stratum ID	Area (hectares)
100701	16.6
100702	11.8
100703	1.3
101201	87.7
101202	92
101203	97.7
101401	634.2
101402	344
101403	123.9
102301	94.3
102302	12.5
102303	19.5
102401	3
102402	28
102501	3.3
102502	23.2
102601	15.4
102602	10.6
102603	7.9
102701	113.1
102702	29.1
102801	11.5
102802	25.1
102901	37.7
102902	15.1
103001	26.7
103002	4.3

103101	37
103102	7.1
103301	99.7
103302	18.8
103401	187.6
103402	63.2
103501	22.7
103502	14.4
103601	64.5
103701	15.8
103702	11.4
103801	62.8
103802	37.8
103901	24.9
103902	14.1
104001	100.1
104101	21.9
104201	52.2
104202	154.2
104301	3.2
104302	7.7
104303	5.4
104401	8.6
104402	29.2
104501	84.9
104502	24.3
104601	30.9
104701	46
104801	10.1
104802	3.5
104803	5.4
105001	34.9
105002	10.7
105101	10.5
105102	5.9
105201	24.5
105202	25.2
105301	7.9

105302	24.5
105401	12.9
105402	4.2
105501	31.5
105601	38.4
105602	59.4
105603	80.3
105701	168.6
105702	41
105801	21.5
105802	33
105803	26.1
105901	206.3
106101	20.9
106102	18
106103	17.4
106201	34.4
106202	48.7
106301	44.7
106302	108.1
106401	54.8
106501	31.4
106502	8.8
106601	49
106602	37.5
106701	104.7
106702	24.2
106801	38.1
106802	35.1
106901	78.8
106902	14.6
106903	20
107001	69.3
107002	203.6
107301	41.7
107302	4.7
107401	128.5
107402	171.1

107403	31.9
108001	30.1
108201	46.7
108202	2.4
108301	23.5
108302	17.5
108401	383.8
108402	80
108501	34.9
108601	22.3
108701	77.6
108702	59.8
108801	32.3
108901	14
108902	6.6
109001	27.2
109002	58.7
109401	17
109402	37.7
109501	121.7
103201	15.7
103202	6.3
104901	27.8
104902	31.5
104903	17.3
104904	53.5
107101	7.6
107102	212.5
107103	57.9
107104	8.8
107901	58.7
109101	232.2
109201	134.0
109301	354.7
109302	314.7
109701	34.3
564109702	41.4
109901	20.8

109902	29.9
109903	54.6
109904	22.0
110001	55.4
110002	13.9
110003	35.3
110101	44.5
110102	32.9
110201	17.8
110202	4.0
110301	16.1
110302	27.8
110303	19.9
110401	38.4
110402	4.8
110501	32.4
110502	104.8
110503	245.8
110504	44.9
110701	2000.7
110702	2379.8
110801	22.4
110802	40.5
110803	24.7
110901	39.6
111001	68.1
111101	208.9
111102	139.0
111201	33.5
111202	10.9
111301	132.0
111401	14.2
111402	9.9
111403	8.2
111501	30.2
111502	11.2
111601	35.0
111602	20.8

111701	31.0
111702	51.1
111801	200.8
111802	16.6
111803	38.6
111901	38.2
112001	135.1
112002	117.2
112101	28.3
112102	40.9
112201	38.1
112202	6.2
112301	100.9
112302	112.8
112401	4.9
112402	38.9
112501	8.0
112601	27.4
113301	66.0
113401	174.5
113402	282.5
113801	81.2
113901	30.0
113902	192.7
114101	187.6
114102	464.0
114103	90.0
114201	11.7
114202	18.1
114301	5.5
114302	59.9
114303	30.1
114401	642.7
114402	90.2
114601	90.9
114701	34.1
114702	11.5
115901	54.8

115902	18.9
116001	90.3
116002	20.9
116101	99.6
116201	38.2
116202	20.8
116301	214.6
116302	1957.0
116303	1647.6
116401	114.7
116402	214.9
116403	333.1
116601	176.2
116602	391.5
116701	38.7
116702	18.9
116801	29.4
116802	89.7
116901	13.1
116902	9.7
117001	130.0
117101	54.9
117102	32.3
117103	21.7
117104	14.8
117201	69.4
117202	17.0
117501	155.7
117502	40.5
117801	17.7
118101	23.6
118102	10.2
118103	32.8
118104	42.6
118201	46.0
118202	69.0
118203	18.5
118301	31.2

118302	16.8
118401	16.8
118402	13.5
118403	14.8
118501	37.7
118502	13.8
118601	25.1
118602	6.3
118801	80.7
118802	48.3
118803	25.6
119001	41.9
119002	43.3
119201	64.2
119202	103.2
121001	26.3

5.0.2 Management Strata

In accordance with the stipulations outlined in VM0003 Section 8.1, when measurement strata exhibit variations in site index, species, management system, or age class, these measurement strata undergo further subdivision into management strata. The objective of this additional delineation of management strata is to ensure that all areas subject to management activities within a given year or between monitoring events form complete and distinct management strata. The determination of management strata involves considering relevant factors such as site index, site species, and management practices, serving as the foundation for modeling both the baseline (as detailed in Section 3.4 of the Project Description) and project (as outlined in Section 1.11 of the Project Description) scenarios. Harvest constraint codes utilized in this management stratification are provided in Annex B and defined also in Annex H.

For the purposes of emission reduction and removal accounting, following VM0003, calculations were carried out at the management strata level, then aggregated into the relevant measurement stratum, as detailed in Section 5.4 of the Project Description document.

All references to variable i in the VM0003 equations refer to measurement strata, and all references to “stratum” or “strata” in the Annex documents shall refer to measurement strata.

Table 13 describes each management stratum and associated parameters used to delineate each. The definitions of baseline management systems applied to each management stratum during FVS

modeling are found in section 5.1. Project management systems are defined in the Project Description document as follows:

Project Management System	Description
IFM 1	No harvesting of the project area except when an intermediate treatment such as thinning, group selection, or patch cut is necessary to promote uneven-aged forest structure.
IFM 2	No harvesting

Dominant age class is the age of dominant trees in each management stratum. The management of dominant trees is the objective of the management systems in the baseline scenario. Each management stratum may contain trees younger than or older than the dominant age class. While the dominant age class may be less than the baseline rotation age for some management strata, all age classes present at project initiation are subject to harvest in the baseline scenario. Site index is identified by the project proponent using United States Department of Agriculture soils data to determine productivity of the site for accurate growth modeling, and site species is used as a proxy for forest type on the management stratum, also used for modeling purposes. Site species are selected based on the primary species present in the inventory data. Management strata that do not legally allow harvesting in the baseline scenario are excluded from crediting, see Section 5.1 for Baseline Management System codes and 5.4 for crediting results.

Table 13. Management strata and differentiating parameters of each

Management Stratum	Measurement Stratum	Area (ha)	Site Species, Site Index	Species Composition	Age Class	Baseline Management System	Project Management System	Baseline Rotation Age	Project Rotation Age
100701004	100701	2.03	Douglas-fir, 139	See Annex W	120-140 years	SMZWOR	IFM 2	No harvesting*. See Annex B	No harvesting*
100701005	100701	14.6	Douglas-fir, 139	See Annex W	120-140 years	WLTOR	IFM 1	50 years with intermittent thinning. See Annex B	Infinity
100702002	100702	7.04	Douglas-fir, 139	See Annex W	120-140 years	SMZWOR	IFM 2	No harvesting*. See Annex B	No harvesting*
100702006	100702	4.79	Douglas-fir, 139	See Annex W	120-140 years	WLTOR	IFM 1	50 years with intermittent thinning. See Annex B	Infinity
100703001	100703	0.93	Douglas-fir, 139	See Annex W	0-10 years	WLTOR	IFM 1	50 years with intermittent thinning*. See Annex B	Infinity*
100703003	100703	0.42	Douglas-fir, 139	See Annex W	0-10 years	SMZWOR	IFM 2	No harvesting*. See Annex B	No harvesting*
101201001	101201	87.72	Yellow-poplar, 90	See Annex W	90-100 years	WV-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
101202002	101202	92.04	Yellow-poplar, 90	See Annex W	30-40 years	WV-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
101203003	101203	97.79	Yellow-poplar, 90	See Annex W	50-60 years	WV-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
101401001	101401	541.85	Chestnut oak, 60	See Annex W	80-90 years	VA-Unconstrained	IFM 1	30 years with intermittent thinning. See Annex B	Infinity
101401006	101401	92.36	Chestnut oak, 60	See Annex W	80-90 years	SMZVA	IFM 1	Occasional entries every +/- 30 years. See Annex B	Infinity
101402002	101402	333.41	Chestnut oak, 60	See Annex W	80-90 years	VA-Unconstrained	IFM 1	30 years with intermittent thinning. See Annex B	Infinity
101402005	101402	10.62	Chestnut oak, 60	See Annex W	80-90 years	SMZVA	IFM 1	Occasional entries every +/- 30 years. See Annex B	Infinity
101403003	101403	109.22	Chestnut oak, 60	See Annex W	60-70 years	VA-Unconstrained	IFM 1	30 years with intermittent thinning. See Annex B	Infinity
101403006	101403	14.71	Chestnut oak, 60	See Annex W	60-70 years	SMZVA	IFM 1	Occasional entries every +/- 30 years. See Annex B	Infinity
102301005	102301	7.57	Paper birch, 60	See Annex W	40-60 years	SMZMN	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
102301006	102301	86.75	Paper birch, 60	See Annex W	40-60 years	MN-Unconstrained	IFM 1	70 years with intermittent thinning. See Annex B	Infinity
102302003	102302	11.98	Paper birch, 60	See Annex W	40-50 years	MN-Unconstrained	IFM 1	70 years with intermittent thinning. See Annex B	Infinity
102302004	102302	0.54	Paper birch, 60	See Annex W	40-50 years	SMZMN	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
102303001	102303	19.48	Paper birch, 60	See Annex W	20-30 years	MN-Unconstrained	IFM 1	70 years with intermittent thinning. See Annex B	Infinity

102303002	102303	0.04	Paper birch, 60	See Annex W	20-30 years	SMZMN	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
102401001	102401	1.02	Douglas-fir, 73	See Annex W	150+ years	SMZCWWA	IFM 2	No harvesting*. See Annex B	No harvesting*
102401002	102401	0.8	Douglas-fir, 73	See Annex W	150+ years	WLTWWA	IFM 1	50 years with intermittent thinning. See Annex B	Infinity
102401003	102401	1.15	Douglas-fir, 73	See Annex W	150+ years	SMZIWWA	IFM 1	Occasional entries every +/- 20 years. See Annex B	Infinity
102402004	102402	27.64	Douglas-fir, 73	See Annex W	150+ years	WLTWWA	IFM 1	50 years with intermittent thinning. See Annex B	Infinity
102402005	102402	0.38	Douglas-fir, 73	See Annex W	150+ years	SMZIWWA	IFM 1	Occasional entries every +/- 20 years. See Annex B	Infinity
102501001	102501	3.26	Red oak, 66	See Annex W	0-10 years	MI-Unconstrained	IFM 1	80 years with intermittent thinning*. See Annex B	Infinity*
102502002	102502	22.04	Red oak, 66	See Annex W	60-70 years	MI-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
102502003	102502	1.12	Red oak, 66	See Annex W	60-70 years	SMZMI	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
102601001	102601	9.85	Balsam fir, 53	See Annex W	40-50 years	ME-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
102601005	102601	5.54	Balsam fir, 53	See Annex W	40-50 years	SMZME	IFM 1	Occasional entries every +/- 10 years. See Annex B	Infinity
102602002	102602	10.47	Balsam fir, 53	See Annex W	30-40 years	SMZME	IFM 1	Occasional entries every +/- 10 years. See Annex B	Infinity
102602006	102602	0.17	Balsam fir, 53	See Annex W	30-40 years	ME-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
102603003	102603	3.13	Balsam fir, 53	See Annex W	20-30 years	ME-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
102603004	102603	4.72	Balsam fir, 53	See Annex W	20-30 years	SMZME	IFM 1	Occasional entries every +/- 10 years. See Annex B	Infinity
102701001	102701	113.07	Chestnut oak, 50	See Annex W	60-70 years	WV-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
102702002	102702	29.07	Chestnut oak, 50	See Annex W	90-100 years	WV-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
102801001	102801	0.37	Red pine, 60	See Annex W	70-80 years	SMZMN	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
102801003	102801	11.1	Red pine, 60	See Annex W	70-80 years	MN-Unconstrained	IFM 1	70 years with intermittent thinning. See Annex B	Infinity
102802002	102802	0.71	Red pine, 60	See Annex W	70-80 years	SMZMN	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
102802004	102802	24.35	Red pine, 60	See Annex W	70-80 years	MN-Unconstrained	IFM 1	70 years with intermittent thinning. See Annex B	Infinity

102901001	102901	5.37	Douglas-fir, 103	See Annex W	50-60 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
102901003	102901	1.31	Douglas-fir, 103	See Annex W	50-60 years	SMZCA	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
102901004	102901	5.16	Douglas-fir, 103	See Annex W	50-60 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
102901008	102901	6.24	Douglas-fir, 103	See Annex W	50-60 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
102901009	102901	7.71	Douglas-fir, 103	See Annex W	50-60 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
102901010	102901	2.68	Douglas-fir, 103	See Annex W	50-60 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
102901011	102901	4.87	Douglas-fir, 103	See Annex W	50-60 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
102901012	102901	4.35	Douglas-fir, 103	See Annex W	50-60 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
102902002	102902	1.96	Douglas-fir, 103	See Annex W	40-50 years	SMZCA	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
102902005	102902	3.88	Douglas-fir, 103	See Annex W	40-50 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
102902006	102902	4	Douglas-fir, 103	See Annex W	40-50 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
102902007	102902	5.26	Douglas-fir, 103	See Annex W	40-50 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
103001001	103001	26.67	Red pine, 60	See Annex W	80-90 years	MN-Unconstrained	IFM 1	70 years with intermittent thinning. See Annex B	Infinity
103002002	103002	4.35	Red pine, 60	See Annex W	40-50 years	MN-Unconstrained	IFM 1	70 years with intermittent thinning. See Annex B	Infinity
103101001	103101	37.02	Red oak, 65	See Annex W	40-50 years	WI-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
103102002	103102	7.07	Red oak, 65	See Annex W	40-50 years	WI-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
103301002	103301	49.68	Silver maple, 80	See Annex W	40-50 years	NY-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
103301003	103301	40.9	Silver maple, 80	See Annex W	40-50 years	SMZ1NY	IFM 2	No harvesting*. See Annex B	No harvesting*
103301004	103301	9.13	Silver maple, 80	See Annex W	40-50 years	SMZ2NY	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
103302001	103302	18.82	Silver maple, 80	See Annex W	60-70 years	NY-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
103401002	103401	24.14	Ponderosa pine, 100	See Annex W	20-30 years	SMZCA	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
103401003	103401	5.91	Ponderosa pine, 100	See Annex W	20-30 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity

103401004	103401	2.39	Ponderosa pine, 100	See Annex W	20-30 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
103401005	103401	7.44	Ponderosa pine, 100	See Annex W	20-30 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
103401006	103401	7.34	Ponderosa pine, 100	See Annex W	20-30 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
103401007	103401	5.37	Ponderosa pine, 100	See Annex W	20-30 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
103401008	103401	2.28	Ponderosa pine, 100	See Annex W	20-30 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
103401009	103401	4.24	Ponderosa pine, 100	See Annex W	20-30 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
103401010	103401	4.49	Ponderosa pine, 100	See Annex W	20-30 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
103401011	103401	6.05	Ponderosa pine, 100	See Annex W	20-30 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
103401012	103401	5.07	Ponderosa pine, 100	See Annex W	20-30 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
103401013	103401	7.61	Ponderosa pine, 100	See Annex W	20-30 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
103401014	103401	6.45	Ponderosa pine, 100	See Annex W	20-30 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
103401015	103401	6.32	Ponderosa pine, 100	See Annex W	20-30 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
103401016	103401	2.77	Ponderosa pine, 100	See Annex W	20-30 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
103401017	103401	6.19	Ponderosa pine, 100	See Annex W	20-30 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
103401018	103401	6.96	Ponderosa pine, 100	See Annex W	20-30 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
103401019	103401	3.39	Ponderosa pine, 100	See Annex W	20-30 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
103401020	103401	6.01	Ponderosa pine, 100	See Annex W	20-30 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
103401021	103401	3.17	Ponderosa pine, 100	See Annex W	20-30 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
103401022	103401	5.67	Ponderosa pine, 100	See Annex W	20-30 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
103401023	103401	5.27	Ponderosa pine, 100	See Annex W	20-30 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
103401024	103401	7.75	Ponderosa pine, 100	See Annex W	20-30 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
103401025	103401	3.35	Ponderosa pine, 100	See Annex W	20-30 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity

103401026	103401	4.8	Ponderosa pine, 100	See Annex W	20-30 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
103401037	103401	4.35	Ponderosa pine, 100	See Annex W	20-30 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
103401038	103401	5.07	Ponderosa pine, 100	See Annex W	20-30 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
103401039	103401	4.99	Ponderosa pine, 100	See Annex W	20-30 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
103401040	103401	5.38	Ponderosa pine, 100	See Annex W	20-30 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
103401041	103401	4.71	Ponderosa pine, 100	See Annex W	20-30 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
103401042	103401	6.27	Ponderosa pine, 100	See Annex W	20-30 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
103401043	103401	6.4	Ponderosa pine, 100	See Annex W	20-30 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
103402001	103402	20.97	Ponderosa pine, 100	See Annex W	20-30 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
103402027	103402	2.67	Ponderosa pine, 100	See Annex W	20-30 years	SMZCA	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
103402028	103402	5.19	Ponderosa pine, 100	See Annex W	20-30 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
103402029	103402	3.95	Ponderosa pine, 100	See Annex W	20-30 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
103402030	103402	4.47	Ponderosa pine, 100	See Annex W	20-30 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
103402031	103402	3.2	Ponderosa pine, 100	See Annex W	20-30 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
103402032	103402	5.59	Ponderosa pine, 100	See Annex W	20-30 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
103402033	103402	2.43	Ponderosa pine, 100	See Annex W	20-30 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
103402034	103402	5.2	Ponderosa pine, 100	See Annex W	20-30 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
103402035	103402	5.43	Ponderosa pine, 100	See Annex W	20-30 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
103402036	103402	4.1	Ponderosa pine, 100	See Annex W	20-30 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
103501001	103501	22.66	Eastern white pine, 75	See Annex W	40-50 years	VT-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
103501003	103501	0.02	Eastern white pine, 75	See Annex W	40-50 years	SMZVT	IFM 1	Occasional entries every +/- 10 years. See Annex B	Infinity

103502002	103502	14.33	Eastern white pine, 75	See Annex W	70-80 years	VT-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
103502004	103502	0.06	Eastern white pine, 75	See Annex W	70-80 years	SMZVT	IFM 1	Occasional entries every +/- 10 years. See Annex B	Infinity
103601001	103601	52.66	Douglas-fir, 71	See Annex W	100+ years	WLTOR	IFM 1	50 years with intermittent thinning. See Annex B	Infinity
103601002	103601	11.84	Douglas-fir, 71	See Annex W	100+ years	SMZWOR	IFM 2	No harvesting*. See Annex B	No harvesting*
103701001	103701	0.07	Eastern hemlock, 65	See Annex W	60-70 years	SMZ1NY	IFM 2	No harvesting*. See Annex B	No harvesting*
103701003	103701	15.61	Eastern hemlock, 65	See Annex W	60-70 years	NY-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
103701005	103701	0.1	Eastern hemlock, 65	See Annex W	60-70 years	SMZ2NY	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
103702002	103702	0.1	Eastern hemlock, 65	See Annex W	80-90 years	SMZ1NY	IFM 2	No harvesting*. See Annex B	No harvesting*
103702004	103702	0.62	Eastern hemlock, 65	See Annex W	80-90 years	SMZ2NY	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
103702006	103702	10.64	Eastern hemlock, 65	See Annex W	80-90 years	NY-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
103801001	103801	62.66	Red oak, 78	See Annex W	40-50 years	WV-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
103802002	103802	37.73	Red oak, 78	See Annex W	50-60 years	WV-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
103901001	103901	24.94	Red maple, 68	See Annex W	50-60 years	RI-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
103902002	103902	14.09	Red maple, 68	See Annex W	50-60 years	RI-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
104001001	104001	100.05	Yellow-poplar, 90	See Annex W	60-70 years	WV-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
104101001	104101	21.85	White oak, 80	See Annex W	50-60 years	PA-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
104201002	104201	6	Red oak, 70	See Annex W	40-50 years	SMZ2PA	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
104201005	104201	44.69	Red oak, 70	See Annex W	40-50 years	PA-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
104201006	104201	1.48	Red oak, 70	See Annex W	40-50 years	SMZ1PA	IFM 2	No harvesting*. See Annex B	No harvesting*
104202001	104202	12.43	Red oak, 70	See Annex W	50-60 years	SMZ2PA	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
104202003	104202	139.08	Red oak, 70	See Annex W	50-60 years	PA-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity

104202004	104202	2.67	Red oak, 70	See Annex W	50-60 years	SMZ1PA	IFM 2	No harvesting*. See Annex B	No harvesting*
104301001	104301	3.24	Sugar maple, 58	See Annex W	30-40 years	ME-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
104302002	104302	6.22	Sugar maple, 58	See Annex W	60-70 years	ME-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
104302004	104302	1.51	Sugar maple, 58	See Annex W	60-70 years	SMZME	IFM 1	Occasional entries every +/- 10 years. See Annex B	Infinity
104303003	104303	3.91	Sugar maple, 58	See Annex W	70-80 years	SMZME	IFM 1	Occasional entries every +/- 10 years. See Annex B	Infinity
104303005	104303	1.54	Sugar maple, 58	See Annex W	70-80 years	ME-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
104401001	104401	7.82	Red maple, 60	See Annex W	50-60 years	VT-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
104401002	104401	0.8	Red maple, 60	See Annex W	50-60 years	SMZVT	IFM 1	Occasional entries every +/- 10 years. See Annex B	Infinity
104402003	104402	5.38	Red maple, 60	See Annex W	50-60 years	SMZVT	IFM 1	Occasional entries every +/- 10 years. See Annex B	Infinity
104402004	104402	23.81	Red maple, 60	See Annex W	50-60 years	VT-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
104501002	104501	78.64	Yellow-poplar, 85	See Annex W	30-40 years	KY-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
104501004	104501	6.24	Yellow-poplar, 85	See Annex W	30-40 years	SMZKY	IFM 1	Occasional entries every +/- 10 years. See Annex B	Infinity
104502001	104502	24.03	Yellow-poplar, 85	See Annex W	70-80 years	KY-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
104502003	104502	0.27	Yellow-poplar, 85	See Annex W	70-80 years	SMZKY	IFM 1	Occasional entries every +/- 10 years. See Annex B	Infinity
104601001	104601	30.92	Black oak, 80	See Annex W	40-50 years	WV-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
104701001	104701	46	White oak, 67	See Annex W	60-70 years	WV-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
104801001	104801	10.12	Yellow-poplar, 96	See Annex W	40-50 years	WV-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
104802002	104802	3.46	Yellow-poplar, 96	See Annex W	50-60 years	WV-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
104803003	104803	5.35	Yellow-poplar, 96	See Annex W	50-60 years	WV-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
105001001	105001	2.79	Sugar maple, 64	See Annex W	50-60 years	SMZ2NY	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
105001002	105001	0.57	Sugar maple, 64	See Annex W	50-60 years	SMZ1NY	IFM 2	No harvesting*. See Annex B	No harvesting*
105001006	105001	31.58	Sugar maple, 64	See Annex W	50-60 years	NY-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity

105002003	105002	0.26	Sugar maple, 64	See Annex W	50-60 years	SMZ1NY	IFM 2	No harvesting*. See Annex B	No harvesting*
105002004	105002	1.15	Sugar maple, 64	See Annex W	50-60 years	SMZ2NY	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
105002005	105002	9.29	Sugar maple, 64	See Annex W	50-60 years	NY-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
105101003	105101	3.94	Loblolly pine, 92	See Annex W	40-50 years	SMZMS	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
105101004	105101	6.54	Loblolly pine, 92	See Annex W	40-50 years	MS-Unconstrained	IFM 1	30 years with intermittent thinning. See Annex B	Infinity
105102001	105102	0.28	Loblolly pine, 92	See Annex W	60-70 years	SMZMS	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
105102002	105102	5.58	Loblolly pine, 92	See Annex W	60-70 years	MS-Unconstrained	IFM 1	30 years with intermittent thinning. See Annex B	Infinity
105201001	105201	16.31	White spruce, 55	See Annex W	50-60 years	ME-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
105201004	105201	8.24	White spruce, 55	See Annex W	50-60 years	SMZME	IFM 1	Occasional entries every +/- 10 years. See Annex B	Infinity
105202002	105202	15.7	White spruce, 55	See Annex W	100+ years	ME-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
105202003	105202	9.5	White spruce, 55	See Annex W	100+ years	SMZME	IFM 1	Occasional entries every +/- 10 years. See Annex B	Infinity
105301001	105301	7.9	Red oak, 71	See Annex W	50-60 years	PA-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
105302002	105302	24.53	Red oak, 71	See Annex W	40-50 years	PA-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
105401001	105401	12.85	Red maple, 59	See Annex W	60-70 years	WI-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
105402002	105402	4.22	Red maple, 59	See Annex W	50-60 years	WI-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
105501001	105501	0.51	Red oak, 72	See Annex W	60-70 years	SMZWI	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
105501002	105501	31.01	Red oak, 72	See Annex W	60-70 years	WI-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
105601001	105601	38.35	Red oak, 50	See Annex W	100+ years	NY-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
105601007	105601	0.01	Red oak, 50	See Annex W	100+ years	SMZ2NY	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
105602002	105602	0.24	Red oak, 50	See Annex W	100+ years	SMZ1NY	IFM 2	No harvesting*. See Annex B	No harvesting*
105602003	105602	58.15	Red oak, 50	See Annex W	100+ years	NY-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
105602006	105602	0.97	Red oak, 50	See Annex W	100+ years	SMZ2NY	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity

105603004	105603	0.56	Red oak, 50	See Annex W	90-100 years	SMZ1NY	IFM 2	No harvesting*. See Annex B	No harvesting*
105603005	105603	2.27	Red oak, 50	See Annex W	90-100 years	SMZ2NY	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
105603008	105603	77.48	Red oak, 50	See Annex W	90-100 years	NY-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
105701003	105701	146.14	Chinkapin oak, 75	See Annex W	100+ years	KS-Unconstrained	IFM 1	60 years with intermittent thinning. See Annex B	Infinity
105701004	105701	22.43	Chinkapin oak, 75	See Annex W	100+ years	SMZKS	IFM 1	Occasional entries every +/- 10 years. See Annex B	Infinity
105702001	105702	37.61	Chinkapin oak, 75	See Annex W	20-25 years	KS-Unconstrained	IFM 1	60 years with intermittent thinning. See Annex B	Infinity
105702002	105702	3.44	Chinkapin oak, 75	See Annex W	20-25 years	SMZKS	IFM 1	Occasional entries every +/- 10 years. See Annex B	Infinity
105801001	105801	18.97	Red maple, 55	See Annex W	100+ years	VT-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
105801002	105801	2.58	Red maple, 55	See Annex W	100+ years	SMZVT	IFM 1	Occasional entries every +/- 10 years. See Annex B	Infinity
105802003	105802	8.29	Red maple, 55	See Annex W	60-70 years	SMZVT	IFM 1	Occasional entries every +/- 10 years. See Annex B	Infinity
105802004	105802	24.76	Red maple, 55	See Annex W	60-70 years	VT-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
105803005	105803	23.46	Red maple, 55	See Annex W	60-70 years	VT-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
105803006	105803	2.64	Red maple, 55	See Annex W	60-70 years	SMZVT	IFM 1	Occasional entries every +/- 10 years. See Annex B	Infinity
105901001	105901	39.32	Douglas-fir, 110	See Annex W	100+ years	SMZCA	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
105901002	105901	3.63	Douglas-fir, 110	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
105901003	105901	2.99	Douglas-fir, 110	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
105901004	105901	3.01	Douglas-fir, 110	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
105901005	105901	2.64	Douglas-fir, 110	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
105901006	105901	3.93	Douglas-fir, 110	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
105901007	105901	3.46	Douglas-fir, 110	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity

105901008	105901	3.63	Douglas-fir, 110	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
105901009	105901	2.47	Douglas-fir, 110	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
105901010	105901	3.24	Douglas-fir, 110	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
105901011	105901	3.51	Douglas-fir, 110	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
105901012	105901	3.47	Douglas-fir, 110	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
105901013	105901	2.91	Douglas-fir, 110	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
105901014	105901	3.97	Douglas-fir, 110	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
105901015	105901	3.54	Douglas-fir, 110	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
105901016	105901	3.71	Douglas-fir, 110	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
105901017	105901	3.92	Douglas-fir, 110	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
105901018	105901	3.85	Douglas-fir, 110	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
105901019	105901	3.1	Douglas-fir, 110	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
105901020	105901	3.92	Douglas-fir, 110	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
105901021	105901	2.35	Douglas-fir, 110	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
105901022	105901	3.17	Douglas-fir, 110	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
105901023	105901	3.27	Douglas-fir, 110	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
105901024	105901	3.84	Douglas-fir, 110	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
105901025	105901	2.91	Douglas-fir, 110	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
105901026	105901	4	Douglas-fir, 110	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
105901027	105901	3.73	Douglas-fir, 110	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
105901028	105901	3.35	Douglas-fir, 110	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
105901029	105901	3.19	Douglas-fir, 110	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity

105901030	105901	2.66	Douglas-fir, 110	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
105901031	105901	3.98	Douglas-fir, 110	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
105901032	105901	3.43	Douglas-fir, 110	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
105901033	105901	3.83	Douglas-fir, 110	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
105901034	105901	4.04	Douglas-fir, 110	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
105901035	105901	2.88	Douglas-fir, 110	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
105901036	105901	3.18	Douglas-fir, 110	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
105901037	105901	3.22	Douglas-fir, 110	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
105901038	105901	2.49	Douglas-fir, 110	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
105901039	105901	3.79	Douglas-fir, 110	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
105901040	105901	3.84	Douglas-fir, 110	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
105901041	105901	1.95	Douglas-fir, 110	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
105901042	105901	2.6	Douglas-fir, 110	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
105901043	105901	3.57	Douglas-fir, 110	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
105901044	105901	3.95	Douglas-fir, 110	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
105901045	105901	3.46	Douglas-fir, 110	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
105901046	105901	2.91	Douglas-fir, 110	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
105901047	105901	2.78	Douglas-fir, 110	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
105901048	105901	2.85	Douglas-fir, 110	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
105901049	105901	2.78	Douglas-fir, 110	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
105901050	105901	2.61	Douglas-fir, 110	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
105901051	105901	2.88	Douglas-fir, 110	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity

105901052	105901	2.64	Douglas-fir, 110	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
106101001	106101	20.52	Balsam fir, 52	See Annex W	60-70 years	WI-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
106101002	106101	0.42	Balsam fir, 52	See Annex W	60-70 years	SMZWI	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
106102003	106102	2.22	Balsam fir, 52	See Annex W	40-50 years	SMZWI	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
106102005	106102	15.77	Balsam fir, 52	See Annex W	40-50 years	WI-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
106103004	106103	16.8	Balsam fir, 52	See Annex W	40-50 years	WI-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
106103006	106103	0.6	Balsam fir, 52	See Annex W	40-50 years	SMZWI	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
106201002	106201	8.29	Yellow-poplar, 90	See Annex W	30-40 years	SMZ1PA	IFM 2	No harvesting*. See Annex B	No harvesting*
106201004	106201	10.28	Yellow-poplar, 90	See Annex W	30-40 years	SMZ2PA	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
106201005	106201	15.8	Yellow-poplar, 90	See Annex W	30-40 years	PA-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
106202001	106202	48.65	Yellow-poplar, 90	See Annex W	70-80 years	PA-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
106202003	106202	0.01	Yellow-poplar, 90	See Annex W	70-80 years	SMZ2PA	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
106301001	106301	3.97	Douglas-fir, 136	See Annex W	60-70 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
106301002	106301	4.52	Douglas-fir, 136	See Annex W	60-70 years	SMZCA	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
106301011	106301	7.7	Douglas-fir, 136	See Annex W	60-70 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
106301012	106301	6.49	Douglas-fir, 136	See Annex W	60-70 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
106301013	106301	5.35	Douglas-fir, 136	See Annex W	60-70 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
106301014	106301	7.44	Douglas-fir, 136	See Annex W	60-70 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
106301015	106301	5.83	Douglas-fir, 136	See Annex W	60-70 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
106301024	106301	3.41	Douglas-fir, 136	See Annex W	60-70 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
106302003	106302	9.42	Douglas-fir, 136	See Annex W	40-50 years	SMZCA	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
106302004	106302	5.3	Douglas-fir, 136	See Annex W	40-50 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity

106302005	106302	5.75	Douglas-fir, 136	See Annex W	40-50 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
106302006	106302	5.65	Douglas-fir, 136	See Annex W	40-50 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
106302007	106302	6.3	Douglas-fir, 136	See Annex W	40-50 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
106302008	106302	6.21	Douglas-fir, 136	See Annex W	40-50 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
106302009	106302	4.41	Douglas-fir, 136	See Annex W	40-50 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
106302010	106302	8.02	Douglas-fir, 136	See Annex W	40-50 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
106302016	106302	7.64	Douglas-fir, 136	See Annex W	40-50 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
106302017	106302	7.84	Douglas-fir, 136	See Annex W	40-50 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
106302018	106302	5.47	Douglas-fir, 136	See Annex W	40-50 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
106302019	106302	5.57	Douglas-fir, 136	See Annex W	40-50 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
106302020	106302	7.16	Douglas-fir, 136	See Annex W	40-50 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
106302021	106302	6.04	Douglas-fir, 136	See Annex W	40-50 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
106302022	106302	5.08	Douglas-fir, 136	See Annex W	40-50 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
106302023	106302	4.6	Douglas-fir, 136	See Annex W	40-50 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
106302025	106302	3.92	Douglas-fir, 136	See Annex W	40-50 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
106302026	106302	3.76	Douglas-fir, 136	See Annex W	40-50 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
106401001	106401	19.76	Balsam fir, 48	See Annex W	50-60 years	SMZME	IFM 1	Occasional entries every +/- 10 years. See Annex B	Infinity
106401002	106401	35.03	Balsam fir, 48	See Annex W	50-60 years	ME-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
106501001	106501	13.8	Douglas-fir, 123	See Annex W	100-110 years	SMZWOR	IFM 2	No harvesting*. See Annex B	No harvesting*
106501002	106501	17.61	Douglas-fir, 123	See Annex W	100-110 years	WLTOR	IFM 1	50 years with intermittent thinning. See Annex B	Infinity
106502003	106502	0.83	Douglas-fir, 123	See Annex W	30-40 years	SMZWOR	IFM 2	No harvesting*. See Annex B	No harvesting*

106502004	106502	7.98	Douglas-fir, 123	See Annex W	30-40 years	WLTOR	IFM 1	50 years with intermittent thinning. See Annex B	Infinity
106601002	106601	49.03	Balsam fir, 56	See Annex W	50-60 years	ME-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
106602001	106602	37.55	Balsam fir, 56	See Annex W	40-50 years	ME-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
106701001	106701	104.7	Sugar maple, 55	See Annex W	70-80 years	NY-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
106702002	106702	24.24	Sugar maple, 55	See Annex W	50-60 years	NY-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
106801001	106801	31.79	Red oak, 62	See Annex W	70-80 years	ME-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
106801002	106801	6.27	Red oak, 62	See Annex W	70-80 years	SMZME	IFM 1	Occasional entries every +/- 10 years. See Annex B	Infinity
106802003	106802	31.66	Red oak, 62	See Annex W	80-90 years	ME-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
106802004	106802	3.42	Red oak, 62	See Annex W	80-90 years	SMZME	IFM 1	Occasional entries every +/- 10 years. See Annex B	Infinity
106901002	106901	8.47	Red alder, 102	See Annex W	20-30 years	SMZIWWA	IFM 1	Occasional entries every +/- 20 years. See Annex B	Infinity
106901003	106901	67.89	Red alder, 102	See Annex W	20-30 years	WLTWWA	IFM 1	50 years with intermittent thinning. See Annex B	Infinity
106901004	106901	2.45	Red alder, 102	See Annex W	20-30 years	SMZCWWA	IFM 2	No harvesting*. See Annex B	No harvesting*
106902007	106902	0.84	Red alder, 102	See Annex W	45219 years	SMZIWWA	IFM 1	Occasional entries every +/- 20 years. See Annex B	Infinity
106902008	106902	13.77	Red alder, 102	See Annex W	45219 years	WLTWWA	IFM 1	50 years with intermittent thinning. See Annex B	Infinity
106903001	106903	6.54	Red alder, 102	See Annex W	20-30 years	SMZCWWA	IFM 2	No harvesting*. See Annex B	No harvesting*
106903005	106903	6.38	Red alder, 102	See Annex W	20-30 years	SMZIWWA	IFM 1	Occasional entries every +/- 20 years. See Annex B	Infinity
106903006	106903	7.1	Red alder, 102	See Annex W	20-30 years	WLTWWA	IFM 1	50 years with intermittent thinning. See Annex B	Infinity
107001004	107001	52.64	Douglas-fir, 76	See Annex W	40-50 years	WLTEWA	IFM 1	50 years with intermittent thinning. See Annex B	Infinity
107001005	107001	5.69	Douglas-fir, 76	See Annex W	40-50 years	SMZCEWA	IFM 2	No harvesting*. See Annex B	No harvesting*
107001006	107001	11	Douglas-fir, 76	See Annex W	40-50 years	SMZIEWA	IFM 1	Occasional entries every +/- 20 years. See Annex B	Infinity
107002001	107002	42.6	Douglas-fir, 76	See Annex W	50-60 years	SMZIEWA	IFM 1	Occasional entries every +/- 20 years. See Annex B	Infinity
107002002	107002	25.74	Douglas-fir, 76	See Annex W	50-60 years	SMZCEWA	IFM 2	No harvesting*. See Annex B	No harvesting*

107002003	107002	135.29	Douglas-fir, 76	See Annex W	50-60 years	WLTEWA	IFM 1	50 years with intermittent thinning. See Annex B	Infinity
107301002	107301	0.64	Red maple, 60	See Annex W	60-70 years	SMZ1NY	IFM 2	No harvesting*. See Annex B	No harvesting*
107301003	107301	38.53	Red maple, 60	See Annex W	60-70 years	NY-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
107301004	107301	2.5	Red maple, 60	See Annex W	60-70 years	SMZ2NY	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
107302001	107302	4.66	Red maple, 60	See Annex W	60-70 years	NY-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
107401002	107401	9.15	Yellow-poplar, 90	See Annex W	90-100 years	SMZVA	IFM 1	Occasional entries every +/- 30 years. See Annex B	Infinity
107401004	107401	119.3	Yellow-poplar, 90	See Annex W	90-100 years	VA-Unconstrained	IFM 1	30 years with intermittent thinning. See Annex B	Infinity
107402001	107402	165.27	Yellow-poplar, 90	See Annex W	20-30 years	VA-Unconstrained	IFM 1	30 years with intermittent thinning. See Annex B	Infinity
107402006	107402	5.8	Yellow-poplar, 90	See Annex W	20-30 years	SMZVA	IFM 1	Occasional entries every +/- 30 years. See Annex B	Infinity
107403003	107403	31.94	Yellow-poplar, 90	See Annex W	40-50 years	VA-Unconstrained	IFM 1	30 years with intermittent thinning. See Annex B	Infinity
107403005	107403	0.01	Yellow-poplar, 90	See Annex W	40-50 years	SMZVA	IFM 1	Occasional entries every +/- 30 years. See Annex B	Infinity
108001001	108001	0.03	Yellow-poplar, 85	See Annex W	90-100 years	SMZVA	IFM 1	Occasional entries every +/- 30 years. See Annex B	Infinity
108001002	108001	30.03	Yellow-poplar, 85	See Annex W	90-100 years	VA-Unconstrained	IFM 1	30 years with intermittent thinning. See Annex B	Infinity
108201002	108201	0.07	American beech, 70	See Annex W	60-70 years	SMZ1PA	IFM 2	No harvesting*. See Annex B	No harvesting*
108201003	108201	0.29	American beech, 70	See Annex W	60-70 years	SMZ2PA	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
108201004	108201	46.37	American beech, 70	See Annex W	60-70 years	PA-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
108202001	108202	2.37	American beech, 70	See Annex W	50-60 years	PA-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
108301001	108301	22.73	American beech, 70	See Annex W	50-60 years	PA-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
108301003	108301	0.26	American beech, 70	See Annex W	50-60 years	SMZ1PA	IFM 2	No harvesting*. See Annex B	No harvesting*
108301004	108301	0.53	American beech, 70	See Annex W	50-60 years	SMZ2PA	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity

108302002	108302	17.26	American beech, 70	See Annex W	70-80 years	PA-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
108302005	108302	0.29	American beech, 70	See Annex W	70-80 years	SMZ2PA	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
108401001	108401	5.27	Blue oak, 47.7	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
108401002	108401	6.54	Blue oak, 47.7	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
108401003	108401	4.7	Blue oak, 47.7	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
108401004	108401	4.61	Blue oak, 47.7	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
108401005	108401	5.74	Blue oak, 47.7	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
108401006	108401	7.22	Blue oak, 47.7	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
108401007	108401	6.01	Blue oak, 47.7	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
108401008	108401	5.13	Blue oak, 47.7	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
108401009	108401	7.87	Blue oak, 47.7	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
108401010	108401	7.62	Blue oak, 47.7	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
108401011	108401	68.63	Blue oak, 47.7	See Annex W	100+ years	SMZCA	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
108401012	108401	3.79	Blue oak, 47.7	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
108401013	108401	7.5	Blue oak, 47.7	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
108401014	108401	7.94	Blue oak, 47.7	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
108401015	108401	4.51	Blue oak, 47.7	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
108401016	108401	5.23	Blue oak, 47.7	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
108401017	108401	6.38	Blue oak, 47.7	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
108401018	108401	6.94	Blue oak, 47.7	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
108401019	108401	6.81	Blue oak, 47.7	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
108401020	108401	6.06	Blue oak, 47.7	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity

108401021	108401	6.91	Blue oak, 47.7	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
108401022	108401	7.01	Blue oak, 47.7	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
108401023	108401	4.88	Blue oak, 47.7	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
108401024	108401	4.62	Blue oak, 47.7	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
108401025	108401	6.95	Blue oak, 47.7	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
108401026	108401	7.75	Blue oak, 47.7	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
108401027	108401	5.21	Blue oak, 47.7	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
108401028	108401	5.35	Blue oak, 47.7	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
108401029	108401	5.94	Blue oak, 47.7	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
108401030	108401	7.94	Blue oak, 47.7	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
108401031	108401	6.54	Blue oak, 47.7	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
108401033	108401	6.58	Blue oak, 47.7	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
108401034	108401	6.06	Blue oak, 47.7	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
108401035	108401	4.48	Blue oak, 47.7	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
108401036	108401	7.01	Blue oak, 47.7	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
108401037	108401	6.35	Blue oak, 47.7	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
108401038	108401	6.44	Blue oak, 47.7	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
108401039	108401	5.69	Blue oak, 47.7	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
108401040	108401	7.51	Blue oak, 47.7	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
108401041	108401	7.37	Blue oak, 47.7	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
108401042	108401	5.83	Blue oak, 47.7	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
108401043	108401	5.72	Blue oak, 47.7	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity

108401044	108401	5.96	Blue oak, 47.7	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
108401045	108401	4.19	Blue oak, 47.7	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
108401046	108401	4.31	Blue oak, 47.7	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
108401047	108401	4.87	Blue oak, 47.7	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
108401048	108401	5.02	Blue oak, 47.7	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
108401049	108401	7.44	Blue oak, 47.7	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
108401050	108401	7.85	Blue oak, 47.7	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
108401051	108401	6.44	Blue oak, 47.7	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
108401052	108401	7.01	Blue oak, 47.7	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
108401064	108401	7.98	Blue oak, 47.7	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
108402032	108402	12.33	Blue oak, 47.7	See Annex W	60-70 years	SMZCA	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
108402053	108402	5.36	Blue oak, 47.7	See Annex W	60-70 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
108402054	108402	7.02	Blue oak, 47.7	See Annex W	60-70 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
108402055	108402	5.87	Blue oak, 47.7	See Annex W	60-70 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
108402056	108402	7.67	Blue oak, 47.7	See Annex W	60-70 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
108402057	108402	3.3	Blue oak, 47.7	See Annex W	60-70 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
108402058	108402	6.78	Blue oak, 47.7	See Annex W	60-70 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
108402059	108402	7.75	Blue oak, 47.7	See Annex W	60-70 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
108402060	108402	7.85	Blue oak, 47.7	See Annex W	60-70 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
108402061	108402	5.71	Blue oak, 47.7	See Annex W	60-70 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
108402062	108402	6.94	Blue oak, 47.7	See Annex W	60-70 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
108402063	108402	3.45	Blue oak, 47.7	See Annex W	60-70 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity

108501001	108501	24.1	White oak, 55	See Annex W	90-100 years	WI-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
108501002	108501	10.78	White oak, 55	See Annex W	90-100 years	SMZWI	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
108601001	108601	22.25	White oak, 67	See Annex W	50-60 years	WV-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
108701003	108701	57.98	Douglas-fir, 141.9	See Annex W	20-30 years	WLTOR	IFM 1	50 years with intermittent thinning. See Annex B	Infinity
108701004	108701	19.59	Douglas-fir, 141.9	See Annex W	20-30 years	SMZWOR	IFM 2	No harvesting*. See Annex B	No harvesting*
108702001	108702	35.88	Douglas-fir, 141.9	See Annex W	40-50 years	WLTOR	IFM 1	50 years with intermittent thinning. See Annex B	Infinity
108702002	108702	23.87	Douglas-fir, 141.9	See Annex W	40-50 years	SMZWOR	IFM 2	No harvesting*. See Annex B	No harvesting*
108801001	108801	32.29	Yellow-poplar, 90	See Annex W	80-90 years	WV-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
108901002	108901	5.14	Northern white-cedar, 22.5	See Annex W	100+ years	SMZMI	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
108901003	108901	8.86	Northern white-cedar, 22.5	See Annex W	100+ years	MI-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
108902001	108902	6.55	Northern white-cedar, 22.5	See Annex W	100+ years	MI-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
109001003	109001	4.62	Canyon live oak, 48	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
109001004	109001	4.67	Canyon live oak, 48	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
109001005	109001	2.12	Canyon live oak, 48	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
109001006	109001	7.35	Canyon live oak, 48	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
109001014	109001	2.28	Canyon live oak, 48	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
109001015	109001	6.2	Canyon live oak, 48	See Annex W	100+ years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
109002001	109002	2.65	Canyon live oak, 48	See Annex W	90-100 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity

109002002	109002	3.04	Canyon live oak, 48	See Annex W	90-100 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
109002007	109002	1.78	Canyon live oak, 48	See Annex W	90-100 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
109002008	109002	7.32	Canyon live oak, 48	See Annex W	90-100 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
109002009	109002	5.57	Canyon live oak, 48	See Annex W	90-100 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
109002010	109002	6.22	Canyon live oak, 48	See Annex W	90-100 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
109002011	109002	6.98	Canyon live oak, 48	See Annex W	90-100 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
109002012	109002	5.7	Canyon live oak, 48	See Annex W	90-100 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
109002013	109002	7.68	Canyon live oak, 48	See Annex W	90-100 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
109002016	109002	7.25	Canyon live oak, 48	See Annex W	90-100 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
109002017	109002	4.53	Canyon live oak, 48	See Annex W	90-100 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
109401001	109401	16.99	Red oak, 74.5	See Annex W	50-60 years	WV-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
109402002	109402	37.66	Red oak, 74.5	See Annex W	50-60 years	WV-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
109501001	109501	10.26	Yellow-poplar, 93	See Annex W	80-90 years	SMZ1PA	IFM 2	No harvesting*. See Annex B	No harvesting*
109501002	109501	5.75	Yellow-poplar, 93	See Annex W	80-90 years	SMZ2PA	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
109501003	109501	105.68	Yellow-poplar, 93	See Annex W	80-90 years	PA-Unconstrained	IFM 1	80 years with intermittent thinning. See Annex B	Infinity

103201001	103201	15.71	red maple, 66	See Annex W	50-60 years	NONEMI	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
103202002	103202	6.33	red maple, 66	See Annex W	40-50 years	NONEMI	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
104901001	104901	27.84	black spruce, 22.5	See Annex W	100+ years	SMZME	IFM 1	Occasional entries every +/- 10 years. See Annex B	Infinity
104902003	104902	19.86	balsam fir, 47.3	See Annex W	30-40 years	NONEME	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
104902004	104902	11.62	balsam fir, 47.3	See Annex W	30-40 years	SMZME	IFM 1	Occasional entries every +/- 10 years. See Annex B	Infinity
104903002	104903	17.28	tamarack, 48	See Annex W	70-80 years	SMZME	IFM 1	Occasional entries every +/- 10 years. See Annex B	Infinity
104904005	104904	25.82	balsam fir, 47.3	See Annex W	40-50 years	NONEME	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
104904006	104904	27.68	balsam fir, 47.3	See Annex W	40-50 years	SMZME	IFM 1	Occasional entries every +/- 10 years. See Annex B	Infinity
107101006	107101	2.27	American basswood, 63	See Annex W	70-80 years	SMZMI	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
107101007	107101	5.32	American basswood, 63	See Annex W	70-80 years	NONEMI	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
107102001	107102	24.96	white spruce, 39	See Annex W	150+ years	SMZMI	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
107102005	107102	187.57	white spruce, 39	See Annex W	150+ years	NONEMI	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
107103003	107103	54	paper birch, 60	See Annex W	60-70 years	NONEMI	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
107103004	107103	3.88	paper birch, 60	See Annex W	60-70 years	SMZMI	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
107104002	107104	8.79	red pine, 57	See Annex W	50-60 years	NONEMI	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
107901001	107901	58.68	water oak, 92.5	See Annex W	60-70 years	NoneOH	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
109101001	109101	205.33	yellow-poplar, 93.5	See Annex W	100+ years	NoneOH	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
109101002	109101	26.9	yellow-poplar, 93.5	See Annex W	100+ years	SMZOH	IFM 1	Occasional entries every +/- 30 years. See Annex B	Infinity
109201001	109201	15.81	white oak, 72.9	See Annex W	50-60 years	SMZOH	IFM 1	Occasional entries every +/- 30 years. See Annex B	Infinity
109201002	109201	118.19	white oak, 72.9	See Annex W	50-60 years	NoneOH	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
109301001	109301	334.61	yellow-poplar, 94	See Annex W	70-80 years	NoneOH	IFM 1	80 years with intermittent thinning. See Annex B	Infinity

109301003	109301	20.08	yellow-poplar, 94	See Annex W	70-80 years	SMZOH	IFM 1	Occasional entries every +/- 30 years. See Annex B	Infinity
109302002	109302	273.5	red maple, 76	See Annex W	40-50 years	NoneOH	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
109302004	109302	41.19	red maple, 76	See Annex W	40-50 years	SMZOH	IFM 1	Occasional entries every +/- 30 years. See Annex B	Infinity
109701001	109701	34.32	yellow-poplar, 93.75	See Annex W	30-40 years	NoneWV	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
109702002	109702	41.4	chestnut oak, 76	See Annex W	40-50 years	NoneWV	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
109901001	109901	20.36	red maple, 50	See Annex W	60-70 years	NONEPA	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
109901003	109901	0.46	red maple, 50	See Annex W	60-70 years	SMZ2PA	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
109902004	109902	3.61	northern red oak, 66	See Annex W	60-70 years	SMZ1PA	IFM 2	No harvesting*. See Annex B	No harvesting*
109902006	109902	22.98	northern red oak, 66	See Annex W	60-70 years	NONEPA	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
109902009	109902	3.29	northern red oak, 66	See Annex W	60-70 years	SMZ2PA	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
109903008	109903	0.57	chestnut oak, 60	See Annex W	60-70 years	SMZ2PA	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
109903010	109903	0.4	chestnut oak, 60	See Annex W	60-70 years	SMZ1PA	IFM 2	No harvesting*. See Annex B	No harvesting*
109903011	109903	53.62	chestnut oak, 60	See Annex W	60-70 years	NONEPA	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
109904002	109904	18.17	red maple, 50	See Annex W	70-80 years	NONEPA	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
109904005	109904	2.17	red maple, 50	See Annex W	70-80 years	SMZ2PA	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
109904007	109904	1.67	red maple, 50	See Annex W	70-80 years	SMZ1PA	IFM 2	No harvesting*. See Annex B	No harvesting*
110001004	110001	1.42	red maple, 75	See Annex W	60-70 years	SMZVA	IFM 1	Occasional entries every +/- 30 years. See Annex B	Infinity
110001005	110001	53.99	red maple, 75	See Annex W	60-70 years	NONEVA	IFM 1	30 years with intermittent thinning. See Annex B	Infinity
110002001	110002	13.89	chestnut oak, 67	See Annex W	60-70 years	NONEVA	IFM 1	30 years with intermittent thinning. See Annex B	Infinity
110003002	110003	30.56	chestnut oak, 67	See Annex W	50-60 years	NONEVA	IFM 1	30 years with intermittent thinning. See Annex B	Infinity
110003003	110003	4.79	chestnut oak, 67	See Annex W	50-60 years	SMZVA	IFM 1	Occasional entries every +/- 30 years. See Annex B	Infinity

110101001	110101	37.28	northern red oak, 77.25	See Annex W	50-60 years	NoneNY	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
110101003	110101	5.3	northern red oak, 77.25	See Annex W	50-60 years	SMZ2NY	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
110101005	110101	1.92	northern red oak, 77.25	See Annex W	50-60 years	SMZ1NY	IFM 2	No harvesting*. See Annex B	No harvesting*
110102002	110102	27.31	white ash, 81.71	See Annex W	40-50 years	NoneNY	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
110102004	110102	4.68	white ash, 81.71	See Annex W	40-50 years	SMZ2NY	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
110102006	110102	0.91	white ash, 81.71	See Annex W	40-50 years	SMZ1NY	IFM 2	No harvesting*. See Annex B	No harvesting*
110201001	110201	13.53	white ash, 72.43	See Annex W	60-70 years	NoneNY	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
110201003	110201	1.05	white ash, 72.43	See Annex W	60-70 years	SMZ1NY	IFM 2	No harvesting*. See Annex B	No harvesting*
110201004	110201	3.24	white ash, 72.43	See Annex W	60-70 years	SMZ2NY	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
110202002	110202	4	balsam fir, 72.43	See Annex W	10-20 years	NoneNY	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
110301001	110301	16.1	eastern redcedar, 67.6	See Annex W	50-60 years	NoneWV	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
110302002	110302	27.82	American sycamore, 67.6	See Annex W	60-70 years	NoneWV	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
110303003	110303	19.92	white oak, 67.6	See Annex W	20-30 years	NoneWV	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
110401001	110401	38.43	chestnut oak, 68	See Annex W	40-50 years	NONEWV	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
110402002	110402	4.78	northern red oak, 75	See Annex W	60-70 years	NONEWV	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
110501001	110501	32.35	jack pine, 55	See Annex W	70-80 years	NONEMI	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
110502002	110502	104.78	balsam fir, 49	See Annex W	40-50 years	NONEMI	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
110503003	110503	245.78	balsam fir, 49	See Annex W	50-60 years	NONEMI	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
110504004	110504	44.91	sugar maple, 62	See Annex W	60-70 years	NONEMI	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
110701001	110701	41.91	Douglas-fir, 44	See Annex W	60-70 years	SMZMT	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
110701002	110701	1958.76	Douglas-fir, 44	See Annex W	60-70 years	NoneMT	IFM 1	70 years with intermittent thinning. See Annex B	Infinity

110702003	110702	58.46	Douglas-fir, 44	See Annex W	60-70 years	SMZMT	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
110702004	110702	2321.35	Douglas-fir, 44	See Annex W	60-70 years	NoneMT	IFM 1	70 years with intermittent thinning. See Annex B	Infinity
110801001	110801	22.37	quaking aspen, 60	See Annex W	50-60 years	NONEMN	IFM 1	70 years with intermittent thinning. See Annex B	Infinity
110802002	110802	40.5	green ash, 60	See Annex W	80-90 years	NONEMN	IFM 1	70 years with intermittent thinning. See Annex B	Infinity
110803003	110803	24.71	quaking aspen, 60	See Annex W	30-40 years	NONEMN	IFM 1	70 years with intermittent thinning. See Annex B	Infinity
110901001	110901	3.87	water oak, 83	See Annex W	30-40 years	SMZLA	IFM 1	30 years with intermittent thinning. See Annex B	Infinity
110901002	110901	35.68	water oak, 83	See Annex W	30-40 years	NONELA	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
111001001	111001	59.68	loblolly pine, 85	See Annex W	50-60 years	NONEAL	IFM 1	30 years with intermittent thinning. See Annex B	Infinity
111001002	111001	8.37	loblolly pine, 85	See Annex W	50-60 years	SMZAL	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
111101003	111101	206.82	sugar maple, 57	See Annex W	60-70 years	NONENH	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
111101004	111101	2.03	sugar maple, 57	See Annex W	60-70 years	SMZNH	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
111102001	111102	4.66	silver maple, 78	See Annex W	50-60 years	SMZNH	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
111102002	111102	134.34	silver maple, 78	See Annex W	50-60 years	NONENH	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
111201001	111201	33.48	sugar maple, 80	See Annex W	30-40 years	NONEWV	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
111202002	111202	10.93	yellow-poplar, 90	See Annex W	50-60 years	NONEWV	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
111301001	111301	109.11	white oak, 63	See Annex W	20-30 years	NonePA	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
111301002	111301	22.9	white oak, 63	See Annex W	20-30 years	SMZNPEWA	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
111401001	111401	13.32	red maple, 65	See Annex W	50-60 years	NoneNY	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
111401003	111401	0.45	red maple, 65	See Annex W	50-60 years	SMZ2NY	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
111401004	111401	0.47	red maple, 65	See Annex W	50-60 years	SMZ1NY	IFM 2	No harvesting*. See Annex B	No harvesting*
111402006	111402	0.76	eastern white pine, 59	See Annex W	100+ years	SMZ2NY	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity

111402008	111402	8.92	eastern white pine, 59	See Annex W	100+ years	NoneNY	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
111402009	111402	0.25	eastern white pine, 59	See Annex W	100+ years	SMZ1NY	IFM 2	No harvesting*. See Annex B	No harvesting*
111403002	111403	4.54	eastern white pine, 59	See Annex W	60-70 years	SMZ1NY	IFM 2	No harvesting*. See Annex B	No harvesting*
111403005	111403	1.92	eastern white pine, 59	See Annex W	60-70 years	SMZ2NY	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
111403007	111403	1.69	eastern white pine, 59	See Annex W	60-70 years	NoneNY	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
111501003	111501	0.52	yellow-poplar, 97	See Annex W	20-30 years	SMZKY	IFM 1	Occasional entries every +/- 10 years. See Annex B	Infinity
111501004	111501	29.73	yellow-poplar, 97	See Annex W	20-30 years	NoneKY	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
111502001	111502	9.46	yellow-poplar, 97	See Annex W	90-100 years	NoneKY	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
111502002	111502	1.78	yellow-poplar, 97	See Annex W	90-100 years	SMZKY	IFM 1	Occasional entries every +/- 10 years. See Annex B	Infinity
111601001	111601	23.78	paper birch, 67	See Annex W	60-70 years	NONEME	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
111601002	111601	11.22	paper birch, 67	See Annex W	60-70 years	SMZME	IFM 1	Occasional entries every +/- 10 years. See Annex B	Infinity
111602003	111602	3.63	red maple, 65	See Annex W	40-50 years	SMZME	IFM 1	Occasional entries every +/- 10 years. See Annex B	Infinity
111602004	111602	17.21	red maple, 65	See Annex W	40-50 years	NONEME	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
111701001	111701	29.8	northern red oak, 76	See Annex W	50-60 years	NONEPA	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
111701002	111701	0.24	northern red oak, 76	See Annex W	50-60 years	SMZ1PA	IFM 2	No harvesting*. See Annex B	No harvesting*
111701003	111701	0.97	northern red oak, 76	See Annex W	50-60 years	SMZ2PA	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
111702004	111702	3.55	northern red oak, 76	See Annex W	60-70 years	SMZ2PA	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
111702005	111702	44.06	northern red oak, 76	See Annex W	60-70 years	NONEPA	IFM 1	80 years with intermittent thinning. See Annex B	Infinity

111702006	111702	3.49	northern red oak, 76	See Annex W	60-70 years	SMZ1PA	IFM 2	No harvesting*. See Annex B	No harvesting*
111801001	111801	195.82	loblolly pine, 92	See Annex W	20-30 years	NONEVA	IFM 1	30 years with intermittent thinning. See Annex B	Infinity
111801003	111801	5	loblolly pine, 92	See Annex W	20-30 years	SMZVA	IFM 1	Occasional entries every +/- 30 years. See Annex B	Infinity
111802004	111802	1.22	loblolly pine, 92	See Annex W	0-10 years	SMZVA	IFM 1	Occasional entries every +/- 30 years. See Annex B	Infinity
111802006	111802	15.4	loblolly pine, 92	See Annex W	0-10 years	NONEVA	IFM 1	30 years with intermittent thinning. See Annex B	Infinity
111803002	111803	31.9	white oak, 85	See Annex W	40-50 years	NONEVA	IFM 1	30 years with intermittent thinning. See Annex B	Infinity
111803005	111803	6.67	white oak, 85	See Annex W	40-50 years	SMZVA	IFM 1	Occasional entries every +/- 30 years. See Annex B	Infinity
111901001	111901	38.23	northern red oak, 75.56	See Annex W	40-50 years	NoneWV	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
112001002	112001	129.1	loblolly pine, 82	See Annex W	40-50 years	NONEAL	IFM 1	30 years with intermittent thinning. See Annex B	Infinity
112001003	112001	6.01	loblolly pine, 82	See Annex W	40-50 years	SMZAL	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
112002001	112002	111.37	loblolly pine, 82	See Annex W	20-30 years	NONEAL	IFM 1	30 years with intermittent thinning. See Annex B	Infinity
112002004	112002	5.83	loblolly pine, 82	See Annex W	20-30 years	SMZAL	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
112101001	112101	28.25	chestnut oak, 50	See Annex W	70-80 years	NONENC	IFM 1	30 years with intermittent thinning. See Annex B	Infinity
112102002	112102	40.35	Virginia pine, 75	See Annex W	50-60 years	NONENC	IFM 1	30 years with intermittent thinning. See Annex B	Infinity
112102003	112102	0.54	Virginia pine, 75	See Annex W	50-60 years	SMZNC	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
112201001	112201	38.08	Douglas-fir, 80	See Annex W	70-80 years	WLTOR	IFM 1	50 years with intermittent thinning. See Annex B	Infinity
112202002	112202	6.01	Douglas-fir, 80	See Annex W	40-50 years	WLTOR	IFM 1	50 years with intermittent thinning. See Annex B	Infinity
112202003	112202	0.22	Douglas-fir, 80	See Annex W	40-50 years	SMZWOR	IFM 2	No harvesting*. See Annex B	No harvesting*
112301001	112301	98.3	white oak, 73.5	See Annex W	70-80 years	NoneKY	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
112301002	112301	2.61	white oak, 73.5	See Annex W	70-80 years	SMZKY	IFM 1	Occasional entries every +/- 10 years. See Annex B	Infinity
112302003	112302	6.68	northern red oak, 83.5	See Annex W	50-60 years	SMZKY	IFM 1	Occasional entries every +/- 10 years. See Annex B	Infinity
112302004	112302	106.08	northern red oak, 83.5	See Annex W	50-60 years	NoneKY	IFM 1	80 years with intermittent thinning. See Annex B	Infinity

112401001	112401	4.17	Virginia pine, 60	See Annex W	80-90 years	CLCTMO	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
112401002	112401	0.72	Virginia pine, 60	See Annex W	80-90 years	SMZMO	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
112402003	112402	8.19	white oak, 60	See Annex W	60-70 years	SMZMO	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
112402004	112402	13.95	white oak, 60	See Annex W	60-70 years	CLCTMO	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
112402005	112402	9.27	white oak, 60	See Annex W	60-70 years	CLCTMO	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
112402006	112402	7.51	white oak, 60	See Annex W	60-70 years	CLCTMO	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
112501001	112501	5.76	balsam fir, 46.25	See Annex W	30-40 years	NoneME	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
112501002	112501	2.22	balsam fir, 46.25	See Annex W	30-40 years	SMZME	IFM 1	Occasional entries every +/- 10 years. See Annex B	Infinity
112601001	112601	27.36	sugar maple, 55	See Annex W	70-80 years	NYAPA	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
113301001	113301	60.3	red maple, 71	See Annex W	50-60 years	NONENY	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
113301002	113301	1.13	red maple, 71	See Annex W	50-60 years	SMZ1NY	IFM 2	No harvesting*. See Annex B	No harvesting*
113301003	113301	4.54	red maple, 71	See Annex W	50-60 years	SMZ2NY	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
113401001	113401	70.94	sweetgum, 93	See Annex W	30-40 years	SMZMS	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
113401002	113401	103.54	sweetgum, 93	See Annex W	30-40 years	NONEMS	IFM 1	30 years with intermittent thinning. See Annex B	Infinity
113402003	113402	89.06	loblolly pine, 89	See Annex W	50-60 years	SMZMS	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
113402004	113402	193.48	loblolly pine, 89	See Annex W	50-60 years	NONEMS	IFM 1	30 years with intermittent thinning. See Annex B	Infinity
113801001	113801	81.17	red pine, 60	See Annex W	100+ years	NONEMN	IFM 1	70 years with intermittent thinning. See Annex B	Infinity
113901001	113901	1.37	Douglas-fir, 73	See Annex W	60-70 years	SMZEORI	IFM 2	No harvesting*. See Annex B	No harvesting*
113901002	113901	26.34	Douglas-fir, 73	See Annex W	60-70 years	WLTOR	IFM 1	50 years with intermittent thinning. See Annex B	Infinity
113901005	113901	2.27	Douglas-fir, 73	See Annex W	60-70 years	SMZEORO	IFM 2	No harvesting*. See Annex B	No harvesting*
113902003	113902	4.12	Ponderosa pine, 97	See Annex W	60-70 years	SMZEORI	IFM 2	No harvesting*. See Annex B	No harvesting*
113902004	113902	5.8	Ponderosa pine, 97	See Annex W	60-70 years	SMZEORO	IFM 2	No harvesting*. See Annex B	No harvesting*

113902006	113902	16.33	Ponderosa pine, 97	See Annex W	60-70 years	WLTOR	IFM 1	50 years with intermittent thinning. See Annex B	Infinity
113902007	113902	40.97	Ponderosa pine, 97	See Annex W	60-70 years	WLTOR	IFM 1	50 years with intermittent thinning. See Annex B	Infinity
113902008	113902	43.79	Ponderosa pine, 97	See Annex W	60-70 years	WLTOR	IFM 1	50 years with intermittent thinning. See Annex B	Infinity
113902009	113902	43.42	Ponderosa pine, 97	See Annex W	60-70 years	WLTOR	IFM 1	50 years with intermittent thinning. See Annex B	Infinity
113902010	113902	38.25	Ponderosa pine, 97	See Annex W	60-70 years	WLTOR	IFM 1	50 years with intermittent thinning. See Annex B	Infinity
114101001	114101	185.58	loblolly pine, 84	See Annex W	20-30 years	NONEGA	IFM 1	30 years with intermittent thinning. See Annex B	Infinity
114101004	114101	2.07	loblolly pine, 84	See Annex W	20-30 years	SMZGA	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
114102003	114102	425.24	loblolly pine, 84	See Annex W	50-60 years	NONEGA	IFM 1	30 years with intermittent thinning. See Annex B	Infinity
114102006	114102	38.73	loblolly pine, 84	See Annex W	50-60 years	SMZGA	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
114103002	114103	89.89	sweetgum, 90	See Annex W	20-30 years	NONEGA	IFM 1	30 years with intermittent thinning. See Annex B	Infinity
114103005	114103	0.12	sweetgum, 90	See Annex W	20-30 years	SMZGA	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
114201001	114201	10.92	American sycamore, 82	See Annex W	10-20 years	NONEKY	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
114201002	114201	0.76	American sycamore, 82	See Annex W	10-20 years	SMZKY	IFM 1	Occasional entries every +/- 10 years. See Annex B	Infinity
114202003	114202	16.84	yellow-poplar, 93	See Annex W	90-100 years	NONEKY	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
114202004	114202	1.23	yellow-poplar, 93	See Annex W	90-100 years	SMZKY	IFM 1	Occasional entries every +/- 10 years. See Annex B	Infinity
114301001	114301	5.52	eastern redcedar, 43	See Annex W	40-50 years	NONEAL	IFM 1	30 years with intermittent thinning. See Annex B	Infinity
114302003	114302	58.1	eastern redcedar, 43	See Annex W	100+ years	NONEAL	IFM 1	30 years with intermittent thinning. See Annex B	Infinity
114302005	114302	1.8	eastern redcedar, 43	See Annex W	100+ years	SMZAL	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
114303002	114303	3.13	water oak, 85	See Annex W	30-40 years	SMZAL	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
114303004	114303	26.92	water oak, 85	See Annex W	30-40 years	NONEAL	IFM 1	30 years with intermittent thinning. See Annex B	Infinity

114401003	114401	63.47	white oak, 90	See Annex W	60-70 years	SMZAL	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
114401004	114401	579.21	white oak, 90	See Annex W	60-70 years	NoneAL	IFM 1	30 years with intermittent thinning. See Annex B	Infinity
114402001	114402	89.4	loblolly pine, 94	See Annex W	30-40 years	NoneAL	IFM 1	30 years with intermittent thinning. See Annex B	Infinity
114402002	114402	0.82	loblolly pine, 94	See Annex W	30-40 years	SMZAL	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
114601001	114601	10.15	loblolly pine, 89	See Annex W	70-80 years	SMZMS	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
114601002	114601	80.74	loblolly pine, 89	See Annex W	70-80 years	NONEMS	IFM 1	30 years with intermittent thinning. See Annex B	Infinity
114701001	114701	28.53	eastern white pine, 62	See Annex W	60-70 years	NONEME	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
114701003	114701	5.55	eastern white pine, 62	See Annex W	60-70 years	SMZME	IFM 1	Occasional entries every +/- 10 years. See Annex B	Infinity
114702002	114702	11.52	northern red oak, 62	See Annex W	70-80 years	NONEME	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
115901001	115901	52.63	loblolly pine, 90	See Annex W	30-40 years	NONENC	IFM 1	30 years with intermittent thinning. See Annex B	Infinity
115901003	115901	2.15	loblolly pine, 90	See Annex W	30-40 years	SMZNC	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
115902002	115902	18.89	loblolly pine, 90	See Annex W	30-40 years	NONENC	IFM 1	30 years with intermittent thinning. See Annex B	Infinity
116001002	116001	90.25	sugar maple, 90	See Annex W	30-40 years	NONEWV	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
116002001	116002	20.89	sugar maple, 97	See Annex W	40-50 years	NONEWV	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
116101001	116101	99.56	baldcypress, 100	See Annex W	40-50 years	NONEFL	IFM 1	30 years with intermittent thinning. See Annex B	Infinity
116201001	116201	38.18	yellow-poplar, 90	See Annex W	50-60 years	NONENC	IFM 1	30 years with intermittent thinning. See Annex B	Infinity
116202002	116202	16.91	yellow-poplar, 90	See Annex W	30-40 years	NONENC	IFM 1	30 years with intermittent thinning. See Annex B	Infinity
116202003	116202	3.93	yellow-poplar, 90	See Annex W	30-40 years	SMZNC	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
116301004	116301	11.33	Douglas-fir, 75	See Annex W	60-70 years	SMZEORI	IFM 2	No harvesting*. See Annex B	No harvesting*
116301005	116301	10.03	Douglas-fir, 75	See Annex W	60-70 years	SMZEORO	IFM 2	No harvesting*. See Annex B	No harvesting*
116301045	116301	22.37	Douglas-fir, 75	See Annex W	60-70 years	WLTOR	IFM 1	50 years with intermittent thinning. See Annex B	Infinity

116301046	116301	48.31	Douglas-fir, 75	See Annex W	60-70 years	WLTOR	IFM 1	50 years with intermittent thinning. See Annex B	Infinity
116301047	116301	39.77	Douglas-fir, 75	See Annex W	60-70 years	WLTOR	IFM 1	50 years with intermittent thinning. See Annex B	Infinity
116301048	116301	26.44	Douglas-fir, 75	See Annex W	60-70 years	WLTOR	IFM 1	50 years with intermittent thinning. See Annex B	Infinity
116301049	116301	27.57	Douglas-fir, 75	See Annex W	60-70 years	WLTOR	IFM 1	50 years with intermittent thinning. See Annex B	Infinity
116301089	116301	28.83	Douglas-fir, 75	See Annex W	60-70 years	WLTOR	IFM 1	50 years with intermittent thinning. See Annex B	Infinity
116302002	116302	51.73	Western juniper, 75	See Annex W	30-40 years	SMZEORO	IFM 2	No harvesting*. See Annex B	No harvesting*
116302003	116302	61.86	Western juniper, 75	See Annex W	30-40 years	SMZEORI	IFM 2	No harvesting*. See Annex B	No harvesting*
116302007	116302	42	Western juniper, 75	See Annex W	30-40 years	WLTOR	IFM 2	No harvesting*. See Annex B	No harvesting*
116302008	116302	30.07	Western juniper, 75	See Annex W	30-40 years	WLTOR	IFM 2	No harvesting*. See Annex B	No harvesting*
116302009	116302	35.3	Western juniper, 75	See Annex W	30-40 years	WLTOR	IFM 2	No harvesting*. See Annex B	No harvesting*
116302010	116302	29.82	Western juniper, 75	See Annex W	30-40 years	WLTOR	IFM 2	No harvesting*. See Annex B	No harvesting*
116302011	116302	43.46	Western juniper, 75	See Annex W	30-40 years	WLTOR	IFM 2	No harvesting*. See Annex B	No harvesting*
116302012	116302	28.77	Western juniper, 75	See Annex W	30-40 years	WLTOR	IFM 2	No harvesting*. See Annex B	No harvesting*
116302013	116302	47.98	Western juniper, 75	See Annex W	30-40 years	WLTOR	IFM 2	No harvesting*. See Annex B	No harvesting*
116302014	116302	43.34	Western juniper, 75	See Annex W	30-40 years	WLTOR	IFM 2	No harvesting*. See Annex B	No harvesting*
116302015	116302	29.77	Western juniper, 75	See Annex W	30-40 years	WLTOR	IFM 2	No harvesting*. See Annex B	No harvesting*
116302016	116302	40.88	Western juniper, 75	See Annex W	30-40 years	WLTOR	IFM 2	No harvesting*. See Annex B	No harvesting*
116302017	116302	26.45	Western juniper, 75	See Annex W	30-40 years	WLTOR	IFM 2	No harvesting*. See Annex B	No harvesting*
116302018	116302	33.69	Western juniper, 75	See Annex W	30-40 years	WLTOR	IFM 2	No harvesting*. See Annex B	No harvesting*
116302019	116302	38.64	Western juniper, 75	See Annex W	30-40 years	WLTOR	IFM 2	No harvesting*. See Annex B	No harvesting*
116302020	116302	47.85	Western juniper, 75	See Annex W	30-40 years	WLTOR	IFM 2	No harvesting*. See Annex B	No harvesting*
116302021	116302	35.77	Western juniper, 75	See Annex W	30-40 years	WLTOR	IFM 2	No harvesting*. See Annex B	No harvesting*

116302022	116302	39.29	Western juniper, 75	See Annex W	30-40 years	WLTOR	IFM 2	No harvesting*. See Annex B	No harvesting*
116302023	116302	36.06	Western juniper, 75	See Annex W	30-40 years	WLTOR	IFM 2	No harvesting*. See Annex B	No harvesting*
116302024	116302	43.04	Western juniper, 75	See Annex W	30-40 years	WLTOR	IFM 2	No harvesting*. See Annex B	No harvesting*
116302025	116302	32.5	Western juniper, 75	See Annex W	30-40 years	WLTOR	IFM 2	No harvesting*. See Annex B	No harvesting*
116302026	116302	29.81	Western juniper, 75	See Annex W	30-40 years	WLTOR	IFM 2	No harvesting*. See Annex B	No harvesting*
116302027	116302	39.8	Western juniper, 75	See Annex W	30-40 years	WLTOR	IFM 2	No harvesting*. See Annex B	No harvesting*
116302028	116302	41.9	Western juniper, 75	See Annex W	30-40 years	WLTOR	IFM 2	No harvesting*. See Annex B	No harvesting*
116302062	116302	48.25	Western juniper, 75	See Annex W	30-40 years	WLTOR	IFM 2	No harvesting*. See Annex B	No harvesting*
116302063	116302	33.54	Western juniper, 75	See Annex W	30-40 years	WLTOR	IFM 2	No harvesting*. See Annex B	No harvesting*
116302064	116302	40.8	Western juniper, 75	See Annex W	30-40 years	WLTOR	IFM 2	No harvesting*. See Annex B	No harvesting*
116302065	116302	39.24	Western juniper, 75	See Annex W	30-40 years	WLTOR	IFM 2	No harvesting*. See Annex B	No harvesting*
116302066	116302	30.79	Western juniper, 75	See Annex W	30-40 years	WLTOR	IFM 2	No harvesting*. See Annex B	No harvesting*
116302067	116302	36.61	Western juniper, 75	See Annex W	30-40 years	WLTOR	IFM 2	No harvesting*. See Annex B	No harvesting*
116302068	116302	29.13	Western juniper, 75	See Annex W	30-40 years	WLTOR	IFM 2	No harvesting*. See Annex B	No harvesting*
116302069	116302	35.23	Western juniper, 75	See Annex W	30-40 years	WLTOR	IFM 2	No harvesting*. See Annex B	No harvesting*
116302070	116302	27.26	Western juniper, 75	See Annex W	30-40 years	WLTOR	IFM 2	No harvesting*. See Annex B	No harvesting*
116302071	116302	29.37	Western juniper, 75	See Annex W	30-40 years	WLTOR	IFM 2	No harvesting*. See Annex B	No harvesting*
116302072	116302	30.18	Western juniper, 75	See Annex W	30-40 years	WLTOR	IFM 2	No harvesting*. See Annex B	No harvesting*
116302073	116302	29.43	Western juniper, 75	See Annex W	30-40 years	WLTOR	IFM 2	No harvesting*. See Annex B	No harvesting*
116302074	116302	46.6	Western juniper, 75	See Annex W	30-40 years	WLTOR	IFM 2	No harvesting*. See Annex B	No harvesting*
116302075	116302	36.59	Western juniper, 75	See Annex W	30-40 years	WLTOR	IFM 2	No harvesting*. See Annex B	No harvesting*
116302076	116302	39.36	Western juniper, 75	See Annex W	30-40 years	WLTOR	IFM 2	No harvesting*. See Annex B	No harvesting*

116302080	116302	37.4	Western juniper, 75	See Annex W	30-40 years	WLTOR	IFM 2	No harvesting*. See Annex B	No harvesting*
116302081	116302	25.93	Western juniper, 75	See Annex W	30-40 years	WLTOR	IFM 2	No harvesting*. See Annex B	No harvesting*
116302082	116302	35.23	Western juniper, 75	See Annex W	30-40 years	WLTOR	IFM 2	No harvesting*. See Annex B	No harvesting*
116302083	116302	48.17	Western juniper, 75	See Annex W	30-40 years	WLTOR	IFM 2	No harvesting*. See Annex B	No harvesting*
116302084	116302	27.6	Western juniper, 75	See Annex W	30-40 years	WLTOR	IFM 2	No harvesting*. See Annex B	No harvesting*
116302094	116302	45.68	Western juniper, 75	See Annex W	30-40 years	WLTOR	IFM 2	No harvesting*. See Annex B	No harvesting*
116302095	116302	48.47	Western juniper, 75	See Annex W	30-40 years	WLTOR	IFM 2	No harvesting*. See Annex B	No harvesting*
116302096	116302	46.56	Western juniper, 75	See Annex W	30-40 years	WLTOR	IFM 2	No harvesting*. See Annex B	No harvesting*
116302097	116302	26.06	Western juniper, 75	See Annex W	30-40 years	WLTOR	IFM 2	No harvesting*. See Annex B	No harvesting*
116302099	116302	25.58	Western juniper, 75	See Annex W	30-40 years	WLTOR	IFM 2	No harvesting*. See Annex B	No harvesting*
116302101	116302	46.99	Western juniper, 75	See Annex W	30-40 years	WLTOR	IFM 2	No harvesting*. See Annex B	No harvesting*
116302102	116302	47.6	Western juniper, 75	See Annex W	30-40 years	WLTOR	IFM 2	No harvesting*. See Annex B	No harvesting*
116302103	116302	33.55	Western juniper, 75	See Annex W	30-40 years	WLTOR	IFM 2	No harvesting*. See Annex B	No harvesting*
116303001	116303	31.74	Ponderosa pine, 75	See Annex W	120-130 years	SMZEORO	IFM 2	No harvesting*. See Annex B	No harvesting*
116303006	116303	45.64	Ponderosa pine, 75	See Annex W	120-130 years	SMZEORI	IFM 2	No harvesting*. See Annex B	No harvesting*
116303029	116303	28.97	Ponderosa pine, 75	See Annex W	120-130 years	WLTOR	IFM 1	50 years with intermittent thinning. See Annex B	Infinity
116303030	116303	36.35	Ponderosa pine, 75	See Annex W	120-130 years	WLTOR	IFM 1	50 years with intermittent thinning. See Annex B	Infinity
116303031	116303	33.1	Ponderosa pine, 75	See Annex W	120-130 years	WLTOR	IFM 1	50 years with intermittent thinning. See Annex B	Infinity
116303032	116303	32.33	Ponderosa pine, 75	See Annex W	120-130 years	WLTOR	IFM 1	50 years with intermittent thinning. See Annex B	Infinity

116303033	116303	33.9	Ponderosa pine, 75	See Annex W	120-130 years	WLTOR	IFM 1	50 years with intermittent thinning. See Annex B	Infinity
116303034	116303	46.53	Ponderosa pine, 75	See Annex W	120-130 years	WLTOR	IFM 1	50 years with intermittent thinning. See Annex B	Infinity
116303035	116303	27.47	Ponderosa pine, 75	See Annex W	120-130 years	WLTOR	IFM 1	50 years with intermittent thinning. See Annex B	Infinity
116303036	116303	47.37	Ponderosa pine, 75	See Annex W	120-130 years	WLTOR	IFM 1	50 years with intermittent thinning. See Annex B	Infinity
116303037	116303	26.37	Ponderosa pine, 75	See Annex W	120-130 years	WLTOR	IFM 1	50 years with intermittent thinning. See Annex B	Infinity
116303038	116303	36.87	Ponderosa pine, 75	See Annex W	120-130 years	WLTOR	IFM 1	50 years with intermittent thinning. See Annex B	Infinity
116303039	116303	47.95	Ponderosa pine, 75	See Annex W	120-130 years	WLTOR	IFM 1	50 years with intermittent thinning. See Annex B	Infinity
116303040	116303	45.42	Ponderosa pine, 75	See Annex W	120-130 years	WLTOR	IFM 1	50 years with intermittent thinning. See Annex B	Infinity
116303041	116303	26.94	Ponderosa pine, 75	See Annex W	120-130 years	WLTOR	IFM 1	50 years with intermittent thinning. See Annex B	Infinity
116303042	116303	36.34	Ponderosa pine, 75	See Annex W	120-130 years	WLTOR	IFM 1	50 years with intermittent thinning. See Annex B	Infinity
116303043	116303	45.42	Ponderosa pine, 75	See Annex W	120-130 years	WLTOR	IFM 1	50 years with intermittent thinning. See Annex B	Infinity
116303044	116303	33.91	Ponderosa pine, 75	See Annex W	120-130 years	WLTOR	IFM 1	50 years with intermittent thinning. See Annex B	Infinity
116303050	116303	40.05	Ponderosa pine, 75	See Annex W	120-130 years	WLTOR	IFM 1	50 years with intermittent thinning. See Annex B	Infinity
116303051	116303	42.17	Ponderosa pine, 75	See Annex W	120-130 years	WLTOR	IFM 1	50 years with intermittent thinning. See Annex B	Infinity
116303052	116303	45.26	Ponderosa pine, 75	See Annex W	120-130 years	WLTOR	IFM 1	50 years with intermittent thinning. See Annex B	Infinity

116303053	116303	47.5	Ponderosa pine, 75	See Annex W	120-130 years	WLTOR	IFM 1	50 years with intermittent thinning. See Annex B	Infinity
116303054	116303	43.62	Ponderosa pine, 75	See Annex W	120-130 years	WLTOR	IFM 1	50 years with intermittent thinning. See Annex B	Infinity
116303055	116303	35.23	Ponderosa pine, 75	See Annex W	120-130 years	WLTOR	IFM 1	50 years with intermittent thinning. See Annex B	Infinity
116303056	116303	42.4	Ponderosa pine, 75	See Annex W	120-130 years	WLTOR	IFM 1	50 years with intermittent thinning. See Annex B	Infinity
116303057	116303	44.21	Ponderosa pine, 75	See Annex W	120-130 years	WLTOR	IFM 1	50 years with intermittent thinning. See Annex B	Infinity
116303058	116303	44.91	Ponderosa pine, 75	See Annex W	120-130 years	WLTOR	IFM 1	50 years with intermittent thinning. See Annex B	Infinity
116303059	116303	31.67	Ponderosa pine, 75	See Annex W	120-130 years	WLTOR	IFM 1	50 years with intermittent thinning. See Annex B	Infinity
116303060	116303	46.17	Ponderosa pine, 75	See Annex W	120-130 years	WLTOR	IFM 1	50 years with intermittent thinning. See Annex B	Infinity
116303061	116303	42.32	Ponderosa pine, 75	See Annex W	120-130 years	WLTOR	IFM 1	50 years with intermittent thinning. See Annex B	Infinity
116303077	116303	44.04	Ponderosa pine, 75	See Annex W	120-130 years	WLTOR	IFM 1	50 years with intermittent thinning. See Annex B	Infinity
116303078	116303	39.8	Ponderosa pine, 75	See Annex W	120-130 years	WLTOR	IFM 1	50 years with intermittent thinning. See Annex B	Infinity
116303079	116303	25.97	Ponderosa pine, 75	See Annex W	120-130 years	WLTOR	IFM 1	50 years with intermittent thinning. See Annex B	Infinity
116303085	116303	27.31	Ponderosa pine, 75	See Annex W	120-130 years	WLTOR	IFM 1	50 years with intermittent thinning. See Annex B	Infinity
116303086	116303	39.62	Ponderosa pine, 75	See Annex W	120-130 years	WLTOR	IFM 1	50 years with intermittent thinning. See Annex B	Infinity
116303087	116303	29.04	Ponderosa pine, 75	See Annex W	120-130 years	WLTOR	IFM 1	50 years with intermittent thinning. See Annex B	Infinity

116303088	116303	32.15	Ponderosa pine, 75	See Annex W	120-130 years	WLTOR	IFM 1	50 years with intermittent thinning. See Annex B	Infinity
116303090	116303	28.34	Ponderosa pine, 75	See Annex W	120-130 years	WLTOR	IFM 1	50 years with intermittent thinning. See Annex B	Infinity
116303091	116303	45.34	Ponderosa pine, 75	See Annex W	120-130 years	WLTOR	IFM 1	50 years with intermittent thinning. See Annex B	Infinity
116303092	116303	36.82	Ponderosa pine, 75	See Annex W	120-130 years	WLTOR	IFM 1	50 years with intermittent thinning. See Annex B	Infinity
116303093	116303	39.54	Ponderosa pine, 75	See Annex W	120-130 years	WLTOR	IFM 1	50 years with intermittent thinning. See Annex B	Infinity
116303098	116303	27.92	Ponderosa pine, 75	See Annex W	120-130 years	WLTOR	IFM 1	50 years with intermittent thinning. See Annex B	Infinity
116303100	116303	33.55	Ponderosa pine, 75	See Annex W	120-130 years	WLTOR	IFM 1	50 years with intermittent thinning. See Annex B	Infinity
116303104	116303	30	Ponderosa pine, 75	See Annex W	120-130 years	WLTOR	IFM 1	50 years with intermittent thinning. See Annex B	Infinity
116401001	116401	114.71	eastern white pine, 79	See Annex W	50-60 years	NONEWV	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
116402002	116402	214.93	yellow-poplar, 92	See Annex W	70-80 years	NONEWV	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
116403003	116403	333.08	American beech, 70	See Annex W	50-60 years	NONEWV	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
116601001	116601	31.71	northern white-cedar, 57	See Annex W	50-60 years	SMZME	IFM 1	Occasional entries every +/- 10 years. See Annex B	Infinity
116601004	116601	144.49	northern white-cedar, 57	See Annex W	50-60 years	NONEME	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
116602002	116602	49.14	red maple, 59	See Annex W	40-50 years	SMZME	IFM 1	Occasional entries every +/- 10 years. See Annex B	Infinity
116602003	116602	342.39	red maple, 59	See Annex W	40-50 years	NONEME	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
116701002	116701	28.5	eastern white pine, 90	See Annex W	50-60 years	NONEPA	IFM 1	80 years with intermittent thinning. See Annex B	Infinity

116701004	116701	7.03	eastern white pine, 90	See Annex W	50-60 years	SMZ1PA	IFM 2	No harvesting*. See Annex B	No harvesting*
116701006	116701	3.16	eastern white pine, 90	See Annex W	50-60 years	SMZ2PA	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
116702001	116702	12.12	sugar maple, 80	See Annex W	20-30 years	NONEPA	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
116702003	116702	3.97	sugar maple, 80	See Annex W	20-30 years	SMZ1PA	IFM 2	No harvesting*. See Annex B	No harvesting*
116702005	116702	2.85	sugar maple, 80	See Annex W	20-30 years	SMZ2PA	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
116801001	116801	29.44	chestnut oak, 52	See Annex W	100+ years	NONEWV	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
116802002	116802	89.72	chestnut oak, 52	See Annex W	60-70 years	NONEWV	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
116901001	116901	12.65	white oak, 75	See Annex W	40-50 years	NONEKY	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
116901002	116901	0.48	white oak, 75	See Annex W	40-50 years	SMZKY	IFM 1	Occasional entries every +/- 10 years. See Annex B	Infinity
116902003	116902	6.8	sugar maple, 75	See Annex W	40-50 years	NONEKY	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
116902004	116902	2.87	sugar maple, 75	See Annex W	40-50 years	SMZKY	IFM 1	Occasional entries every +/- 10 years. See Annex B	Infinity
117001001	117001	101.06	quaking aspen, 60	See Annex W	70-80 years	NONEWI	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
117001002	117001	28.89	quaking aspen, 60	See Annex W	70-80 years	SMZWI	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
117101001	117101	54.05	northern red oak, 60	See Annex W	70-80 years	NONEMN	IFM 1	70 years with intermittent thinning. See Annex B	Infinity
117101005	117101	0.89	northern red oak, 60	See Annex W	70-80 years	SMZMN	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
117102002	117102	32.25	black ash, 60	See Annex W	30-40 years	NONEMN	IFM 1	70 years with intermittent thinning. See Annex B	Infinity
117103003	117103	18.12	black ash, 60	See Annex W	50-60 years	NONEMN	IFM 1	70 years with intermittent thinning. See Annex B	Infinity
117103006	117103	3.61	black ash, 60	See Annex W	50-60 years	SMZMN	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
117104004	117104	14.84	black ash, 60	See Annex W	70-80 years	NONEMN	IFM 1	70 years with intermittent thinning. See Annex B	Infinity
117201001	117201	14.68	white oak, 58	See Annex W	70-80 years	CLCTMO	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
117201002	117201	13.06	white oak, 58	See Annex W	70-80 years	CLCTMO	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity

117201004	117201	5.12	white oak, 58	See Annex W	70-80 years	SMZMO	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
117201005	117201	7.5	white oak, 58	See Annex W	70-80 years	CLCTMO	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
117201007	117201	15.23	white oak, 58	See Annex W	70-80 years	CLCTMO	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
117201008	117201	13.81	white oak, 58	See Annex W	70-80 years	CLCTMO	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
117202003	117202	2.07	white oak, 58	See Annex W	50-60 years	SMZMO	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
117202006	117202	14.91	white oak, 58	See Annex W	50-60 years	CLCTMO	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
117501003	117501	134.89	loblolly pine, 89	See Annex W	20-30 years	NONEAR	IFM 1	30 years with intermittent thinning. See Annex B	Infinity
117501004	117501	20.84	loblolly pine, 89	See Annex W	20-30 years	SMZAR	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
117502001	117502	38.88	yellow-poplar, 89	See Annex W	0-10 years	NONEAR	IFM 1	30 years with intermittent thinning. See Annex B	Infinity
117502002	117502	1.61	yellow-poplar, 89	See Annex W	0-10 years	SMZAR	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
117801001	117801	17.21	loblolly pine, 94	See Annex W	30-40 years	NONENC	IFM 1	30 years with intermittent thinning. See Annex B	Infinity
117801002	117801	0.53	loblolly pine, 94	See Annex W	30-40 years	SMZNC	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
118101005	118101	18.92	loblolly pine, 86	See Annex W	40-50 years	NONETN	IFM 1	30 years with intermittent thinning. See Annex B	Infinity
118101006	118101	4.65	loblolly pine, 86	See Annex W	40-50 years	SMZTN	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
118102001	118102	10.22	loblolly pine, 86	See Annex W	80-90 years	NONETN	IFM 1	30 years with intermittent thinning. See Annex B	Infinity
118103002	118103	6.92	loblolly pine, 86	See Annex W	20-30 years	SMZTN	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
118103007	118103	25.84	loblolly pine, 86	See Annex W	20-30 years	NONETN	IFM 1	30 years with intermittent thinning. See Annex B	Infinity
118104003	118104	28.97	loblolly pine, 86	See Annex W	40-50 years	NONETN	IFM 1	30 years with intermittent thinning. See Annex B	Infinity
118104004	118104	13.61	loblolly pine, 86	See Annex W	40-50 years	SMZTN	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
118201002	118201	30.73	Douglas-fir, 138	See Annex W	40-50 years	WLTOR	IFM 1	50 years with intermittent thinning. See Annex B	Infinity
118201004	118201	15.31	Douglas-fir, 138	See Annex W	40-50 years	SMZWOR	IFM 2	No harvesting*. See Annex B	No harvesting*
118202005	118202	44.26	Sitka spruce, 169	See Annex W	150+ years	WLTOR	IFM 1	50 years with intermittent thinning. See Annex B	Infinity

118202006	118202	24.72	Sitka spruce, 169	See Annex W	150+ years	SMZWOR	IFM 2	No harvesting*. See Annex B	No harvesting*
118203001	118203	5.6	Sitka spruce, 138	See Annex W	0-10 years	SMZWOR	IFM 2	No harvesting*. See Annex B	No harvesting*
118203003	118203	12.86	Sitka spruce, 138	See Annex W	0-10 years	WLTOR	IFM 1	50 years with intermittent thinning. See Annex B	Infinity
118301003	118301	6.93	Douglas-fir, 119	See Annex W	40-50 years	SMZWOR	IFM 2	No harvesting*. See Annex B	No harvesting*
118301004	118301	24.26	Douglas-fir, 119	See Annex W	40-50 years	WLTOR	IFM 1	50 years with intermittent thinning. See Annex B	Infinity
118302001	118302	6.97	Douglas-fir, 119	See Annex W	50-60 years	SMZWOR	IFM 2	No harvesting*. See Annex B	No harvesting*
118302002	118302	9.84	Douglas-fir, 119	See Annex W	50-60 years	WLTOR	IFM 1	50 years with intermittent thinning. See Annex B	Infinity
118401001	118401	16.83	loblolly pine, 87	See Annex W	10-20 years	NONEGA	IFM 1	30 years with intermittent thinning. See Annex B	Infinity
118402002	118402	13.53	loblolly pine, 87	See Annex W	30-40 years	NONEGA	IFM 1	30 years with intermittent thinning. See Annex B	Infinity
118403003	118403	14.75	loblolly pine, 87	See Annex W	40-50 years	NONEGA	IFM 1	30 years with intermittent thinning. See Annex B	Infinity
118501002	118501	36.33	yellow-poplar, 97	See Annex W	30-40 years	NONEAL	IFM 1	30 years with intermittent thinning. See Annex B	Infinity
118501004	118501	1.38	yellow-poplar, 97	See Annex W	30-40 years	SMZAL	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
118502001	118502	0.55	shortleaf pine, 70	See Annex W	50-60 years	SMZAL	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
118502003	118502	13.29	shortleaf pine, 70	See Annex W	50-60 years	NONEAL	IFM 1	30 years with intermittent thinning. See Annex B	Infinity
118601001	118601	24.32	chestnut oak, 60	See Annex W	70-80 years	NONEGA	IFM 1	30 years with intermittent thinning. See Annex B	Infinity
118601003	118601	0.78	chestnut oak, 60	See Annex W	70-80 years	SMZGA	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
118602002	118602	6.34	chestnut oak, 60	See Annex W	70-80 years	NONEGA	IFM 1	30 years with intermittent thinning. See Annex B	Infinity
118801001	118801	14.77	Douglas-fir, 120	See Annex W	70-80 years	SMZCA	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
118801010	118801	6.22	Douglas-fir, 120	See Annex W	70-80 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
118801011	118801	7.9	Douglas-fir, 120	See Annex W	70-80 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
118801012	118801	7.38	Douglas-fir, 120	See Annex W	70-80 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
118801013	118801	7.92	Douglas-fir, 120	See Annex W	70-80 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity

118801014	118801	4.74	Douglas-fir, 120	See Annex W	70-80 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
118801015	118801	5.93	Douglas-fir, 120	See Annex W	70-80 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
118801017	118801	6.41	Douglas-fir, 120	See Annex W	70-80 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
118801018	118801	6.07	Douglas-fir, 120	See Annex W	70-80 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
118801019	118801	6.7	Douglas-fir, 120	See Annex W	70-80 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
118801021	118801	6.68	Douglas-fir, 120	See Annex W	70-80 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
118802003	118802	3.88	Ponderosa pine, 134	See Annex W	10-20 years	SMZCA	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
118802006	118802	5.95	Ponderosa pine, 134	See Annex W	10-20 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
118802007	118802	7.64	Ponderosa pine, 134	See Annex W	10-20 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
118802008	118802	6.56	Ponderosa pine, 134	See Annex W	10-20 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
118802009	118802	7.22	Ponderosa pine, 134	See Annex W	10-20 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
118802020	118802	5.76	Ponderosa pine, 134	See Annex W	10-20 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
118802022	118802	6.16	Ponderosa pine, 134	See Annex W	10-20 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
118802023	118802	5.14	Ponderosa pine, 134	See Annex W	10-20 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
118803002	118803	9.1	Douglas-fir, 120	See Annex W	10-20 years	SMZCA	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
118803004	118803	6.2	Douglas-fir, 120	See Annex W	10-20 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
118803005	118803	2.81	Douglas-fir, 120	See Annex W	10-20 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
118803016	118803	7.51	Douglas-fir, 120	See Annex W	10-20 years	CACLCT	IFM 1	45 years with intermittent thinning. See Annex B	Infinity
119001002	119001	0.86	red maple, 52	See Annex W	60-70 years	SMZ1NY	IFM 2	No harvesting*. See Annex B	No harvesting*
119001003	119001	37.66	red maple, 52	See Annex W	60-70 years	NONENY	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
119001004	119001	3.35	red maple, 52	See Annex W	60-70 years	SMZ2NY	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
119002001	119002	41.49	red maple, 52	See Annex W	70-80 years	NONENY	IFM 1	80 years with intermittent thinning. See Annex B	Infinity

119002005	119002	1.34	red maple, 52	See Annex W	70-80 years	SMZ2NY	IFM 1	Occasional entries every +/- 15 years. See Annex B	Infinity
119002006	119002	0.42	red maple, 52	See Annex W	70-80 years	SMZ1NY	IFM 2	No harvesting*. See Annex B	No harvesting*
119201001	119201	59.36	balsam fir, 52	See Annex W	40-50 years	NONEME	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
119201002	119201	4.79	balsam fir, 52	See Annex W	40-50 years	SMZME	IFM 1	Occasional entries every +/- 10 years. See Annex B	Infinity
119202003	119202	26.11	balsam fir, 52	See Annex W	40-50 years	SMZME	IFM 1	Occasional entries every +/- 10 years. See Annex B	Infinity
119202004	119202	77.04	balsam fir, 52	See Annex W	40-50 years	NONEME	IFM 1	80 years with intermittent thinning. See Annex B	Infinity
121001001	121001	26.34	black spruce, 50	See Annex W	40-50 years	NONEMI	IFM 1	80 years with intermittent thinning. See Annex B	Infinity

*Asterisk in this table denotes that a management stratum does not contribute to crediting due to no harvesting in both the baseline and project management systems (see section 5.4).

It can be confirmed that management strata without harvesting in the baseline do not contribute to crediting by assessing the input and output FVS files for the baseline and project scenarios (Annex AA), as well as the Model Results summary workbook (Annex AC). Within the Model Results workbook carbon stocking for all management strata (including those without harvesting in the baseline) can be viewed. These values are then further summarized within the workbook by measurement strata to obtain GHG accounting inputs as this is what is required by the VM0003 Methodology.

Modeling Software

Baseline and project scenario forecasting was accomplished partially through the use of the Forest Vegetation Simulator (FVS), a family of forest growth simulation models developed by the United States Forest Service. FVS was chosen for use because it recognizes all major tree species within the continental United States and can simulate nearly any type of management. Additionally, the VM0003 Methodology lists FVS as an approved modeling program.

5.1. Baseline Emissions

Procedures for the quantification of baseline emissions and/or removals were taken from Sections 8.2, 8.4, and 8.5 of the VM0003 Methodology. The following equations were utilized:

To calculate baseline net greenhouse gas removals Equation 1 was used:

$$\Delta C_{BSL} = \Delta C_{BSLP} - GHG_{BSLE}$$

where:

ΔC_{BSL}	Change in baseline net greenhouse gas removals by sinks (t CO ₂ e) during the current monitoring period
ΔC_{BSLP}	Change in carbon stock changes in all pools in the baseline scenario (t CO ₂ e) during the current monitoring period
GHG_{BSLE}	Greenhouse gas emissions as a result of forest management activities within the project area in the baseline scenario (tCO ₂ e) during the current monitoring period

To calculate carbon stock changes in all pools in the baseline Equation 2 was used:

$$\Delta C_{BSLP} = \Delta C_{BSL_{tree}} + \Delta C_{BSL_{DW}} + \Delta C_{BSL_{WP}}$$

where:

ΔC_{BSLp}	Carbon stock changes in all pools in the baseline scenario (t CO ₂ e) during the current monitoring period
$\Delta C_{BSLtree}$	Carbon stock changes in above-ground and below-ground biomass of trees in the baseline scenario (tCO ₂ e) during the current monitoring period
ΔC_{BSLDW}	Carbon stock changes in dead wood in the baseline scenario (tCO ₂ e) during the current monitoring period
ΔC_{BSLWP}	Carbon stock changes in wood products in the baseline scenario (tCO ₂ e) during the current monitoring period

To calculate carbon stock changes in above- and below-ground biomass of trees in the baseline Equation 3 was used (see Section 5.2 Table 15 for belowground biomass root-to-shoot ratios):

$$\Delta C_{BSLtree} = \frac{\left(\sum_{i=1}^{M_B} \Delta C_{BSLAG|BG,i,100} \times \frac{44}{12} \right)}{100} \times t^*$$

where:

$\Delta C_{BSLtree}$	Carbon stock changes in above-ground and below-ground biomass of trees in the baseline scenario (tCO ₂ e) during the current monitoring period
$\Delta C_{BSLAG BG,i,100}$	Summed annual net carbon stock change in above-ground and below-ground biomass for measurement stratum i summed over the 100-year modeled baseline (t C) during the current monitoring period
i	1, 2, 3, ..., MB measurement strata in the baseline scenario
t	1, 2, 3, ..., t* years elapsed since the start of the IFM project activity

$\frac{44}{12}$	Ratio of molecular weight of CO ₂ to carbon (tCO ₂ e t C-1)
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To calculate carbon stock changes in dead wood in the baseline Equation 4 was used:

$$\Delta C_{BSLDW} = \frac{\left(\sum_{i=1}^{M_B} \Delta C_{BSLDW,i,100} \times \frac{44}{12} \right)}{100} \times t^*$$

where:

ΔC_{BSLDW}	Carbon stock changes in dead wood in the baseline scenario (tCO ₂ e) during the current monitoring period
$\Delta C_{BSLDW,i,100}$	Summed annual net carbon stock change in dead wood for measurement stratum i summed over the 100-year modeled baseline (tC) during the current monitoring period
i	1, 2, 3, ..., MB measurement strata in the baseline scenario
t	1, 2, 3, ..., t* years elapsed since the start of the IFM project activity
$\frac{44}{12}$	Ratio of molecular weight of CO ₂ to carbon (tCO ₂ e t C-1)

Under the VM0003 Methodology, the dead wood pool was broken into two components: standing dead wood and lying dead wood. Below-ground dead wood was conservatively omitted. The following equations were used to calculate dead wood:

To calculate the annual carbon stock change in dead wood Equation 18 was used:

$$\Delta C_{DW,i,t} = \frac{C_{DW,i,t_2} - C_{DW,i,t_1}}{T}$$

where:

$\Delta C_{DW,i,t}$	Annual carbon stock change in dead wood for measurement stratum i averaged over the monitoring period (t C yr ⁻¹)
$C_{DW,i,t2}$	Carbon stock of dead wood in measurement stratum i at time t = 2 (t C)
$C_{DW,i,t1}$	Carbon stock of dead wood in measurement stratum i at time t = 1 (t C)
T	Number of years between monitoring time t2 and t1 ($T = t2 - t1$) (yr)
i	1, 2, 3, ..., MPS measurement strata in the project scenario
t	1, 2, 3, ... t* years elapsed since the start of the IFM project activity

To calculate the carbon stocks of dead wood Equation 25 was used:

$$C_{DW,i,t} = (B_{SDW,i,t} + B_{LDW,i,t}) \times CF_{DW}$$

where:

$C_{DW,i,t}$	Carbon stock of dead wood in measurement stratum i at time t (t C)
$B_{SDW,i,t}$	Biomass of standing dead wood in measurement stratum i at time t (t d.m.)
$B_{LDW,i,t}$	Biomass of lying dead wood in measurement stratum i at time t (t d.m.)
CF_{DW}	Carbon fraction of dry matter in dead wood [0.5] (t C t ⁻¹ d.m.)
i	1, 2, 3, ..., MPS measurement strata in the project scenario
t	1, 2, 3, ... t* years elapsed since the start of the IFM project activity

As required by the VM0003 Methodology, a 10-year linear decay function was applied to standing dead within the FVS baseline model. After 10 years standing dead is assumed to fall and transition into the lying dead wood pool.

To determine lying dead wood values for the baseline model the following steps were taken:

- The forest types for each PAI were determined based on inventory data, see Annex F, and were then matched with FIA forest types listed in USGS, Forest Management Service Center, and *The Fire and Fuels Extension to the Forest Vegetation Simulator: Updated Model Documentation*, Table 4.16.10, pp.295-296 (2015), see Annex F.
- Within *The Fire and Fuels Extension to the Forest Vegetation Simulator: Updated Model Documentation* (FFE) the lying dead wood default biomass values for size classes 3-6, 6-12, and >12 were summed for each forest type associated with a PAI.
- Default lying dead biomass values were then used as lying dead values for the initial year of the baseline model.
- Following the initial year, lying dead wood was assumed to be equal to the difference between current above ground carbon contained within standing dead and the standing wood values reported in the previous 10-year cycle.

Since lying dead was calculated directly from changes in the standing dead wood pool, the same 10-year linear decay function was applied.

Default lying dead wood biomass values that were used for each measurement stratum are provided below (See Annex F):

Table 14: Default lying dead wood biomass values.

Measurement Stratum	FFE Variant	Total LDW Carbon (tCO ₂ e/ac)
100701	Westside Cascades	83.26
100702	Westside Cascades	64.97
100703	Westside Cascades	0.00
101201	Northeastern	6.33
101202	Northeastern	1.93
101203	Northeastern	1.93
101401	Southern	4.49
101402	Southern	4.49
101403	Southern	4.49
102301	Lake States	11.28
102302	Lake States	5.45
102303	Lake States	5.45
102401	Westside Cascades	84.07
102402	Westside Cascades	47.88
102501	Lake States	0.00
102502	Lake States	11.39
102601	Northeastern	11.61

102602	Northeastern	11.61
102603	Northeastern	11.61
102701	Northeastern	3.72
102702	Northeastern	1.93
102801	Lake States	0.00
102802	Lake States	0.59
102901	Inland California and Southern Cascades	8.72
102902	Inland California and Southern Cascades	13.65
103001	Lake States	6.69
103002	Lake States	5.45
103101	Lake States	3.78
103102	Lake States	3.78
103301	Northeastern	6.33
103302	Northeastern	0.53
103401	Inland California and Southern Cascades	19.72
103402	Inland California and Southern Cascades	15.39
103501	Northeastern	6.33
103502	Northeastern	9.13
103601	South Central Oregon/Northeast California	19.99
103701	Northeastern	6.33
103702	Northeastern	6.33
103801	Northeastern	1.93
103802	Northeastern	1.93
103901	Northeastern	6.33
103902	Northeastern	6.33
104001	Northeastern	1.93
104101	Northeastern	10.32
104201	Northeastern	1.93
104202	Northeastern	1.93
104301	Northeastern	11.61
104302	Northeastern	11.61
104303	Northeastern	7.22
104401	Northeastern	9.81
104402	Northeastern	6.33
104501	Southern	4.49

104502	Southern	4.49
104601	Northeastern	1.93
104701	Northeastern	1.93
104801	Northeastern	10.32
104802	Northeastern	1.93
104803	Northeastern	6.33
105001	Northeastern	1.93
105002	Northeastern	10.32
105101	Southern	3.58
105102	Southern	1.87
105201	Northeastern	11.61
105202	Northeastern	11.61
105301	Northeastern	7.22
105302	Northeastern	7.22
105401	Lake States	1.82
105402	Lake States	1.82
105501	Lake States	6.69
105601	Northeastern	10.32
105602	Northeastern	1.93
105603	Northeastern	10.32
105701	Central States	7.39
105702	Central States	10.40
105801	Northeastern	6.33
105802	Northeastern	6.33
105803	Northeastern	6.33
105901	Klamath Mountains	13.09
106101	Lake States	5.45
106102	Lake States	11.28
106103	Lake States	5.45
106201	Northeastern	0.53
106202	Northeastern	1.93
106301	Klamath Mountains	12.83
106302	Klamath Mountains	0.00
106401	Northeastern	11.61
106501	Westside Cascades	75.35
106502	Westside Cascades	66.48
106601	Northeastern	9.13
106602	Northeastern	11.61

106701	Northeastern	7.22
106702	Northeastern	6.33
106801	Northeastern	1.93
106802	Northeastern	9.13
106901	Pacific Northwest Coast	62.22
106902	Pacific Northwest Coast	62.55
106903	Pacific Northwest Coast	67.19
107001	Inland Empire	9.58
107002	Inland Empire	13.30
107301	Northeastern	6.33
107302	Northeastern	6.29
107401	Southern	3.58
107402	Southern	4.49
107403	Southern	1.87
108001	Southern	4.49
108201	Northeastern	7.22
108202	Northeastern	7.22
108301	Northeastern	6.33
108302	Northeastern	7.22
108401	Klamath Mountains	12.83
108402	Klamath Mountains	12.83
108501	Lake States	1.82
108601	Northeastern	6.33
108701	Pacific Northwest Coast	69.44
108702	Pacific Northwest Coast	44.52
108801	Northeastern	1.93
108901	Lake States	7.22
108902	Lake States	5.92
109001	Western Sierras	15.12
109002	Western Sierras	8.70
109401	Northeastern	6.33
109402	Northeastern	1.93
109501	Northeastern	1.93
103201	Lake States	7.77
103202	Lake States	11.39
104901	Northeastern	11.61
104902	Northeastern	11.61
104903	Northeastern	11.61

104904	Northeastern	11.61
107101	Lake States	11.39
107102	Lake States	5.45
107103	Lake States	11.39
107104	Lake States	0.59
107901	Southern	2.79
109101	Northeastern	6.33
109201	Northeastern	1.93
109301	Northeastern	6.33
109302	Northeastern	6.33
109701	Northeastern	3.72
109702	Northeastern	7.22
109901	Northeastern	1.93
109902	Northeastern	9.81
109903	Northeastern	1.93
109904	Northeastern	9.81
110001	Southern	9.15
110002	Southern	4.49
110003	Southern	4.49
110101	Northeastern	9.81
110102	Northeastern	9.81
110201	Northeastern	9.81
110202	Northeastern	11.61
110301	Northeastern	11.61
110302	Northeastern	2.02
110303	Northeastern	10.32
110401	Northeastern	3.72
110402	Northeastern	1.93
110501	Lake States	0.59
110502	Lake States	11.28
110503	Lake States	5.45
110504	Lake States	11.39
110701	Eastern Montana	12.66
110702	Eastern Montana	12.73
110801	Lake States	11.28
110802	Lake States	9.15
110803	Lake States	11.28
110901	Southern	2.66

111001	Southern	2.79
111101	Northeastern	7.22
111102	Northeastern	6.33
111201	Northeastern	7.22
111202	Northeastern	0.53
111301	East Cascades	5.32
111401	Northeastern	6.33
111402	Northeastern	9.13
111403	Northeastern	9.13
111501	Southern	9.15
111502	Southern	9.15
111601	Northeastern	10.16
111602	Northeastern	10.16
111701	Northeastern	1.93
111702	Northeastern	6.33
111801	Southern	1.87
111802	Southern	5.51
111803	Southern	9.15
111901	Northeastern	6.33
112001	Southern	4.49
112002	Southern	1.87
112101	Southern	4.49
112102	Southern	4.49
112201	Inland California and Southern Cascades	17.24
112202	Inland California and Southern Cascades	12.95
112301	Southern	4.49
112302	Southern	4.49
112401	Central States	10.40
112402	Central States	10.40
112501	Northeastern	11.61
112601	Northeastern	6.33
113301	Northeastern	6.33
113401	Southern	9.15
113402	Southern	1.87
113801	Lake States	9.58
113901	Blue Mountains	12.83
113902	Blue Mountains	10.22

114101	Southern	1.87
114102	Southern	1.87
114103	Southern	2.79
114201	Southern	2.66
114202	Southern	9.15
114301	Southern	3.04
114302	Southern	3.04
114303	Southern	4.49
114401	Southern	2.79
114402	Southern	1.87
114601	Southern	1.87
114701	Northeastern	9.13
114702	Northeastern	6.33
115901	Southern	1.87
115902	Southern	1.87
116001	Northeastern	1.93
116002	Northeastern	7.22
116101	Southern	2.79
116201	Southern	4.49
116202	Southern	2.66
116301	Blue Mountains	16.03
116302	Blue Mountains	8.07
116303	Blue Mountains	8.95
116401	Northeastern	10.32
116402	Northeastern	6.33
116403	Northeastern	6.33
116601	Northeastern	9.81
116602	Northeastern	9.81
116701	Northeastern	9.13
116702	Northeastern	6.33
116801	Northeastern	1.93
116802	Northeastern	6.33
116901	Southern	4.49
116902	Southern	9.15
117001	Lake States	11.28
117101	Lake States	11.28
117102	Lake States	5.45
117103	Lake States	5.45

117104	Lake States	11.39
117201	Central States	7.39
117202	Central States	7.39
117501	Southern	9.15
117502	Southern	9.15
117801	Southern	1.87
118101	Southern	1.87
118102	Southern	1.87
118103	Southern	1.87
118104	Southern	1.87
118201	Pacific Northwest Coast	60.51
118202	Pacific Northwest Coast	88.49
118203	Pacific Northwest Coast	74.50
118301	Pacific Northwest Coast	82.52
118302	Pacific Northwest Coast	51.40
118401	Southern	1.87
118402	Southern	1.87
118403	Southern	1.87
118501	Southern	4.49
118502	Southern	1.87
118601	Southern	4.49
118602	Southern	4.49
118801	Klamath Mountains	14.44
118802	Klamath Mountains	15.76
118803	Klamath Mountains	17.88
119001	Northeastern	9.13
119002	Northeastern	6.33
119201	Northeastern	9.81
119202	Northeastern	9.81
121001	Lake States	5.45

To calculate carbon stock changes in wood products in the baseline Equation 5 was used:

$$\Delta C_{BSL_{WP}} = \frac{\left(\sum_{i=1}^{M_B} \Delta C_{BSL_{WP,i,t}} \times \frac{44}{12} \right)}{100} \times t^*$$

where:

$\Delta C_{BSL,WP}$	Carbon stock changes in wood products in the baseline (t CO ₂ e) during the current monitoring period
$\Delta C_{BSLWP,i,t}$	Baseline annual net carbon stock change in wood products for measurement stratum i at time t (t C yr ⁻¹) during the current monitoring period
i	1, 2, 3, ..., MB measurement strata in the baseline scenario
t	1, 2, 3, ..., t* years elapsed since the start of the IFM project activity
44/12	Ratio of molecular weight of CO ₂ to carbon (t CO ₂ e t C ⁻¹)

To calculate the annual change in carbon stored in wood products Equation 28 was used:

$$\Delta C_{WP,t_1,t_2} = \frac{C_{WP,t_2} - C_{WP,t_1}}{T}$$

where:

$\Delta C_{WP,t_1,t_2}$	Annual carbon stock change in wood products between times t ₁ and t ₂ , averaged over the monitoring period (t C yr ⁻¹)
$\Delta C_{WP,t_2}$	Carbon stock of wood products at time t = 2 (t C)
$\Delta C_{WP,t_1}$	Carbon stock of wood products at time t = 1 (t C)
T	Number of years between monitoring times t ₂ and t ₁ (T = t ₂ - t ₁) (yr)
t	1, 2, 3, ..., t* years elapsed since the start of the IFM project activity

To calculate wood products the Winjum et al. Method was used (Annex J). The Winjum et al. Method was chosen as it may be applied to any vegetation type found throughout the world. The following equations were used:

To calculate the biomass of the total volume extracted from within the project area Equation 29 was used:

$$EXC_{WP,ty} = \sum_{h=1}^{HPS} \sum_{j=1}^{SPS} (V_{ex,h,ty,j} \times D_j \times CF_j)$$

where:

$EXC_{WP,ty}$	Summed stock of extracted biomass carbon from within the project area for class of wood product ty (tC)
$V_{ex,h,ty,j}$	Volume of timber extracted from within the project area during harvest h for species j and wood product class ty (m ³)
D_j	Basic wood density of species j (t d.m. m ⁻³)
CF_j	Carbon fraction of biomass for tree species j; IPCC default value = 0.5 (t C t ⁻¹ d.m.)
h	1, 2, 3, ..., HPS harvests since the start of the IFM project activity
j	1, 2, 3, ..., SPS tree species in the project scenario
ty	Wood product class, defined here as sawnwood, wood-based panels, other industrial roundwood, and paper and paper board

To calculate the total carbon in harvested timber that enters the wood products pool based on mill efficiencies and product disposition percentages Equation 32 was used:

$$C_{Mill,ty} = \sum_{s,w,oir,p}^{ty} EXC_{WP,ty} \times (1 - WW)$$

where:

$C_{Mill,ty}$	Summed stock of carbon remaining in wood products of class ty from within the project area after milling (tC)
$EXC_{WP,ty}$	Summed stock of extracted biomass carbon from within the project area for class of wood product ty (tC)
WW	Wood waste fraction based on mill efficiency
s,w,oir,p	Wood product categories: sawnwood, wood-based panels, other industrial roundwood, and paper and paperboard

Following the Winjum et al. Method, the wood waste fraction (WW) was assumed to be 0.19 as all PAIs exist within a developed country.

To calculate the total carbon removed from the project area stored in each type of wood product Equation 33 was used:

$$C_{WP,ty} = \sum_{s,w,oir,p}^{ty} ((C_{Mill,ty} - SLF) - \left(\frac{MLF}{20}\right))$$

where:

$C_{WP,ty}$	Total carbon removed from the project area stored in each type, ty, of harvested wood products (tC)
$C_{Mill,ty}$	Summed stock of carbon remaining in wood products of class ty from within the project area after milling (tC)
SLF	Fraction of wood products that will be emitted to the atmosphere within 3 years of timber harvest (tC)
MLF	Fraction of wood products that is considered stored for the medium term and emitted to the atmosphere each year after harvest for 20 years (tC)

ty	Wood product class, defined here as sawnwood, wood-based panels, other industrial roundwood, paper and paper board
t	1, 2, 3, ..., t^* years elapsed since the start of the IFM project activity

Per the VM0003 Methodology, a default value of 0.62 was used for OF for both sawnwood and paper product classes.

To calculate the fraction of wood products emitted to the atmosphere within three years of timber harvest Equation 34 was used:

$$SLF = (C_{Mill,ty}) \times slp$$

Where:

SLF	Fraction of wood products emitted to the atmosphere within 3 years of timber harvest (tC)
$C_{Mill,ty}$	Sum of carbon remaining in wood products of class ty from within the project area after milling (tC)
slp	Short-lived proportion
ty	Wood product class, defined here as sawnwood, wood-based panels, other industrial roundwood, and paper and paper board

Per the VM0003 Methodology, default slp values of 0.12 and 0.24 were used for sawnwood and paper product classes, respectively.

To calculate the fraction of wood products stored between years 3 and 5, Equation 36 was used:

$$MLF_{3,5} = C_{mill,ty} \times slp_{adj}$$

where:

$MLF_{3,5}$	Fraction of wood products that is considered stored for the medium term for the period $t = 3$ years to $t = 5$ years (tC)
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$C_{Mill,ty}$	Summed stock of biomass carbon extracted from within the project area for wood product class ty after milling (tC)
slp_{adj}	Short-lived proportion for the period $t = 3$ years to $t = 5$ years
MLF	Fraction of wood products that is considered stored for the medium term and emitted to the atmosphere each year after harvest for 20 years (tC)

Per the VM0003 Methodology, default slp_{adj} values of 0.08 and 0.16 were used for sawnwood and paper product classes, respectively.

To calculate the fraction of wood products stored between years 5 and 100, Equation 37 was used:

$$MLF_{5,100} = (C_{mill,ty} - SLF - MLF_{3,5}) \times 0.615$$

where:

$MLF_{5,100}$	Fraction of wood products that is considered stored for the medium term for the period $t = 5$ years to $t = 100$ years (tC)
$C_{Mill,ty}$	Summed stock of biomass carbon extracted from within the project area for class of wood product ty after milling (tC)
SLF	Fraction of wood products emitted to the atmosphere within 3 years of timber harvest (tC)
ty	Wood product class, defined here as sawnwood, wood-based panels, other industrial roundwood, and paper and paper board
h	Year after harvest

To calculate the fraction of wood products stored for the medium-term Equation 35 was used:

$$MLF = MLF_{3,5} + MLF_{5,100}$$

where:

MLF	Fraction of wood products that is considered stored for the medium term and will be emitted to the atmosphere each year after harvest for 20 years (tC)
$MLF_{3,5}$	Fraction of wood products that is considered stored for the medium term for the period $t = 3$ years to $t = 5$ years (tC)
$MLF_{5,100}$	Fraction of wood products that is considered stored for the medium term for the period $t = 5$ years to $t = 100$ years (tC)

Baseline GHG emissions were estimated according to VM0003 Section 8.4, Equation 6:

$$GHG_{BSL,E} = \sum_{t=1}^{t^*} (E_{BSL,BiomassBurn,t})$$

where:

$GHG_{BSL,E}$	Greenhouse gas emissions as a result of forest management activities within the project area in the baseline, t CO2-e
$E_{BSL, BiomassBurn,t}$	Non-CO2 emissions due to biomass burning as part of forest management during the year t in the baseline, t CO2-e
t	1, 2, 3 ... t^* years elapsed since the start of the IFM project activity, years

Logging slash ($E_{BSL, BiomassBurn,t}$) in the baseline scenario was excluded according to the methodology, as such, $GHG_{BSL,E}$ was calculated as zero.

The volume and biomass equations and references were sourced from the US Forest Inventory & Analysis (FIA) program, which are also used in both the California Air Resources Board and Climate Action Reserve programs, and are available on both of these programs' websites, listed in Annex I. Biomass equations were compiled in proprietary visual basic analysis (VBA) code in Microsoft Excel and data analysis software. Tree species, DBH, height, decay, and region-specific biomass equations were used to calculate carbon estimates in tonnes of CO2 equivalent. Carbon was only calculated for trees above 12.7 cm (5 inches) at DBH and above.

Baseline Emissions for Current Monitoring Period

To determine the baseline emissions for the current monitoring period the equations described above were used. Values were calculated for the start and end dates of the monitoring period and the difference was found. Using VM0003 v1.3 Equations 1, 2, 3, 4, and 5, ΔC_{BSL} , the baseline net greenhouse gas removals by sinks (tCO₂e) was calculated for the project.

Baseline Model Inputs

Baseline carbon stock values used for determining net GHG emission reductions and removals were generated ex-ante by FVS using a 100-year time frame. Inputs into the Baseline Model included tree attribute data taken from the project inventory (Annex W), and site-specific spatial information for each management stratum. Management stratum, also known as modeling unit, boundaries were defined by dividing PAIs into areas with distinct silvicultural planning regimes based on state and local forest management regulations and best-management-practices (see section 5, Annex B for PAI maps, and Annex Y for management strata shapefiles), as well as by speaking with foresters located in the region of the PAIs to confirm plausibility (Annex H). Where a management stratum is not subject to the baseline management system due to legal harvesting restrictions on that stratum, it shall not contribute to baseline emissions or project crediting. See Section 5 for more detail on management strata. All treelist values have undergone a QAQC procedure to verify accuracy as seen in Annex AL.

Baseline Model Outputs

Outputs from the FVS Baseline Model included the following summaries, with information displayed in 10-year cycles for the 100-year modeling time frame:

1. Aboveground and belowground living carbon ($\Delta C_{BSL,tree}$, VM0003 Equation 3)
2. Aboveground dead carbon ($\Delta C_{BSL,DW}$, VM0003 Equation 4)
3. Harvested wood products ($\Delta C_{BSL,WP}$, VM0003 Equation 5)

All references to “Stand ID” within FVS outputs Annexes AC and AD refer to management strata.

Baseline – Aboveground and Belowground Living Carbon ($\Delta C_{BSL,tree}$, VM0003 Equation 3)

Modeled above and below-ground living carbon is reported by management stratum and 10-year FVS cycle in Annex AA. To aggregate from management strata to the relevant measurement strata (see Table 13 in Section 5), the following procedure was carried out in Annex AC:

- Above and below ground living carbon for related management strata were summed to the relevant measurement strata (see Section 5). Aggregated measurement strata total carbon is reported by 10-year model cycle in Annex AC.
- The URS (section 3.2.2) was applied to the first 10-year model cycle for each measurement strata. URS for each measurement stratum is reported in section 4.2 and is calculated in Annex W.
- Following VM0003 equation 3, the change in above and below ground carbon for each measurement stratum was annualized over the 100-year model for input to ERR accounting (Annex AB).

Baseline – Dead Carbon ($\Delta C_{BSL,DW}$, VM0003 Equation 4)

Dead wood carbon is reported by management stratum and 10-year FVS cycle in Annex AA. To aggregate management strata dead wood carbon to the relevant measurement strata (Section 5), the following procedure occurred in Annex AC:

- Dead carbon for related management strata was summed to the relevant measurement strata and reported by 10-year FVS model cycle. See Section 5 for a table that relates each management strata and the associated measurement strata.
- Following VM0003 equation 4, change in dead wood carbon for each measurement stratum was annualized over the 100-year model for input to the ERR Calculation Spreadsheet, Annex AB.

Baseline – Carbon in Harvested Wood Products ($\Delta C_{BSL,WP}$, VM0003 Equation 5)

A Cut List displaying a record of each tree scheduled for harvest in FVS by management stratum is located in Annex AD.

- Each tree record present in the Cut List was assigned to the relevant measurement strata in Annex AD.
- The VM0003 Winjum method was utilized to quantify carbon stored in harvested wood products for each tree record in the Cut List, per 8.5.1.3 of the VM0003 methodology. Relevant parameters are defined in Section 4.1.
- Tree-level harvested wood products were summarized to the relevant measurement strata (see section 5 for management strata and associated measurement strata).
- Following VM0003 equation 5, the change in baseline harvested wood products was annualized over the 100-year model for input to ERR accounting (Annex AB).

Total baseline emissions for the current monitoring period are 14,241 tCO₂e. All calculations related to baseline emissions are available in the ERR Calculation Spreadsheet (Annex AB), the model results workbook (Annex AC), and the baseline wood products workbook (Annex AD).

5.1.1 Uncredited Reserve Stock

When a PAI was first enrolled to the grouped project, $\Delta C_{BSL,tree}$ and $\Delta C_{BSL,DW,standing}$ were conservatively reduced to reflect the nine-percent (9%) portion of initial carbon stocks set aside to the URS (see Section 3.2.1). The steps to calculate URS in the baseline scenario are as follows:

1. Calculate nine percent (9%) of the initial carbon stocks (tCO₂e) for the AGBG Living and AG Standing Dead pools, respectively. Initial carbon stocks are based on inventory data, projected via FVS to the PAI start date.
2. Deduct reserved AGBG Living carbon calculated in Step 1 from the start of the baseline model (Annex AC).
3. Deduct reserved AG Standing Dead carbon from the start of the baseline model (Annex AC).
4. Calculate $\Delta C_{BSL,tree}$ and $\Delta C_{BSL,DW,standing}$

This procedure results in baseline depletion rates for $\Delta C_{BSL,tree}$ and $\Delta C_{BSL,DW,standing}$ that are conservatively lower in baseline emissions, resulting in fewer VCU's as compared to otherwise. See section 3.2.1 for more detail on the URS.

5.2. Project Emissions

Quantify project emissions and/or carbon stock changes for the monitoring period in Procedures for the quantification of project emissions and/or removals were taken from Section 8.5 of the VM0003 Methodology. The following equations were utilized:

To calculate the actual net greenhouse gas removals in the project Equation 10 was used:

$$\Delta C_{ACTUAL} = \Delta C_P - GHG_E$$

where:

ΔC_{ACTUAL}	Change in actual net greenhouse gas removals by sinks (tCO ₂ e) during the current monitoring period
ΔC_P	Sum of the changes in above-ground biomass, dead wood and wood products in the project scenario (tCO ₂ e) during the current monitoring period
GHG_E	Increase in GHG emissions as a result of implementation of the proposed IFM project activity within the project area (tCO ₂ e) during the current monitoring period

To calculate the sum of the changes in above-ground biomass, dead wood, and wood products in the project Equation 11 was used:

$$\Delta C_P = \sum_{t=1}^{t^*} \Delta C_t \times \frac{44}{12}$$

where:

ΔC_P	Sum of the changes in above-ground biomass, dead wood and wood products in the project scenario (tCO ₂ e) during the current monitoring period
ΔC_t	Annual change in carbon stock in all selected carbon pools for year t (tC yr ⁻¹)

t	1, 2, 3, ..., t^* years elapsed since the start of the IFM project activity
$\frac{44}{12}$	Ratio of molecular weights of CO ₂ and carbon (mol mol ⁻¹)

To calculate the annual change in carbon stocks in the project Equation 12 was used:

$$\Delta C_t = \sum_{i=1}^{M_{PS}} (\Delta C_{AG,i,t} + \Delta C_{BG,i,t} + \Delta C_{DW,i,t} + \Delta C_{WP,i,t})$$

where:

ΔC_t	Annual change in carbon stock in all selected carbon pools for year t (t C yr ⁻¹) during the current monitoring period
$\Delta C_{AG,i,t}$	Annual carbon stock change in above-ground biomass of trees for measurement stratum i ; may be an average over the monitoring period (t C yr ⁻¹)
$\Delta C_{BG,i,t}$	Annual carbon stock change in below-ground biomass of trees for measurement stratum i ; may be an average over the monitoring period (t C yr ⁻¹)
$\Delta C_{DW,i,t}$	Annual change in the dead wood carbon pool for measurement stratum i ; may be an average over the monitoring period (t C yr ⁻¹)
$\Delta C_{WP,i,t}$	Annual change in the wood products carbon pool for measurement stratum i ; may be an average over the monitoring period (t C yr ⁻¹)
i	1, 2, 3, ..., MPS measurement strata in the project scenario
t	1, 2, 3, ..., t^* years elapsed since the start of the IFM project activity

Average carbon stocks in above-ground biomass per unit area were estimated based on field measurements in sample plots. As the allometric equation method was chosen, the following equations from the VM0003 Methodology were used:

To calculate the above-ground biomass of tree by species Equation 19 was used:

$$C_{ABtree_{l,j,i,sp,t}} = \sum_{l=1}^{N_{j,sp}} f_j(DBH, H) \times CF_j$$

where:

$C_{aBtree_{l,j,i,sp,t}}$	Carbon stock in above-ground biomass of tree l of species j in plot sp in measurement stratum i at time t (t C tree-1)
CF_j	Carbon fraction of biomass for tree species j ; IPCC default value = 0.5 (t C t-1 d.m.)
$f_j(DBH, H)$	Allometric equation for species j linking diameter at breast height (DBH) and possibly height (H) to above-ground biomass of trees (t. d.m. tree-1)
i	1, 2, 3, ..., MPS measurement strata in the project scenario
j	1, 2, 3, ..., SPS tree species in the project scenario
l	1, 2, 3, ..., $N_{j,sp}$ sequence number of individual trees of species j in sample plot sp
t	1, 2, 3, ..., t^* years elapsed since the start of the IFM project activity

To calculate carbon stocks in below-ground biomass of trees Equation 20 was used:

$$C_{BBtree_{l,j,i,sp,t}} = C_{ABtree_{l,j,i,sp,t}} \times R_j$$

where:

$C_{bBtree_{l,j,i,sp,t}}$	Carbon stock in below-ground biomass of tree l of species j in plot sp in measurement stratum i at time t (t C tree-1)
$C_{aBtree_{l,j,i,sp,t}}$	Carbon stock in above-ground biomass of tree l of species j in plot sp in measurement stratum i at time t (t C tree-1)
R_j	Root-shoot ratio appropriate for biomass stock of species j (dimensionless)

Following the 2006 IPCC Guidelines for National Greenhouse Gas Inventories - Ch4 Forest Land Table 4.4 (Annex N), the following root-to-shoot ratios were applied to each measurement stratum, with all PAIs falling into the Temperate zone, vegetation type determined by species composition from the forest inventory by basal area:

Table 15. Measurement stratum and assigned root to shoot ratio.

Measurement Stratum	Vegetation Type	Root to Shoot Ratio
100701	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
100702	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
100703	Conifers, above-ground biomass < 50 tonnes/ha	0.4
101201	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
101202	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
101203	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
101401	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
101402	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
101403	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
102301	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
102302	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
102303	Conifers, above-ground biomass < 50 tonnes/ha	0.4
102401	Conifers, above-ground biomass < 50 tonnes/ha	0.4
102402	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
102501	Other broadleaf, above- ground biomass < 75 tonnes/ha	0.46
102502	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
102601	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
102602	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
102603	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
102701	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
102702	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
102801	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
102802	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
102901	Quercus spp., above- ground biomass >70 tonnes/ha	0.3
102902	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
103001	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
103002	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
103101	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
103102	Other broadleaf, above- ground biomass < 75 tonnes/ha	0.46
103301	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
103302	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24

103401	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
103402	Conifers, above-ground biomass < 50 tonnes/ha	0.4
103501	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
103502	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
103601	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
103701	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
103702	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
103801	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
103802	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
103901	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
103902	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
104001	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
104101	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
104201	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
104202	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
104301	Conifers, above-ground biomass < 50 tonnes/ha	0.4
104302	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
104303	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
104401	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
104402	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
104501	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
104502	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
104601	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
104701	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
104801	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
104802	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
104803	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
105001	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
105002	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
105101	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
105102	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
105201	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
105202	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
105301	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
105302	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
105401	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
105402	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
105501	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
105601	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
105602	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
105603	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24

105701	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
105702	Other broadleaf, above- ground biomass < 75 tonnes/ha	0.46
105801	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
105802	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
105803	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
105901	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
106101	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
106102	Other broadleaf, above- ground biomass < 75 tonnes/ha	0.46
106103	Conifers, above-ground biomass < 50 tonnes/ha	0.4
106201	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
106202	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
106301	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
106302	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
106401	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
106501	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
106502	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
106601	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
106602	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
106701	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
106702	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
106801	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
106802	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
106901	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
106902	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
106903	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
107001	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
107002	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
107301	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
107302	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
107401	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
107402	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
107403	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
108001	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
108201	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
108202	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
108301	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
108302	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
108401	Quercus spp., above- ground biomass >70 tonnes/ha	0.3
108402	Quercus spp., above- ground biomass >70 tonnes/ha	0.3
108501	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
108601	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24

108701	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
108702	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
108801	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
108901	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
108902	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
109001	Quercus spp., above- ground biomass >70 tonnes/ha	0.3
109002	Quercus spp., above- ground biomass >70 tonnes/ha	0.3
109401	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
109402	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
109501	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
103201	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
103202	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
104901	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
104902	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
104903	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
104904	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
107101	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
107102	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
107103	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
107104	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
107901	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
109101	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
109201	Quercus spp., above- ground biomass >70 tonnes/ha	0.3
109301	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
109302	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
109701	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
109702	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
109901	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
109902	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
109903	Quercus spp., above- ground biomass >70 tonnes/ha	0.3
109904	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
110001	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
110002	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
110003	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
110101	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
110102	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
110201	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
110202	Conifers, above-ground biomass < 50 tonnes/ha	0.4
110301	Other broadleaf, above- ground biomass 75-150 tonnes/ha	0.23
110302	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
110303	Conifers, above-ground biomass 50-150 tonnes/ha	0.29

110401	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
110402	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
110501	Conifers, above-ground biomass < 50 tonnes/ha	0.4
110502	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
110503	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
110504	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
110701	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
110702	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
110801	Other broadleaf, above- ground biomass < 75 tonnes/ha	0.46
110802	Other broadleaf, above- ground biomass 75-150 tonnes/ha	0.23
110803	Other broadleaf, above- ground biomass < 75 tonnes/ha	0.46
110901	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
111001	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
111101	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
111102	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
111201	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
111202	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
111301	Quercus spp., above- ground biomass >70 tonnes/ha	0.3
111401	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
111402	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
111403	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
111501	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
111502	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
111601	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
111602	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
111701	Quercus spp., above- ground biomass >70 tonnes/ha	0.3
111702	Quercus spp., above- ground biomass >70 tonnes/ha	0.3
111801	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
111802	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
111803	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
111901	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
112001	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
112002	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
112101	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
112102	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
112201	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
112202	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
112301	Quercus spp., above- ground biomass >70 tonnes/ha	0.3
112302	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
112401	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
112402	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24

112501	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
112601	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
113301	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
113401	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
113402	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
113801	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
113901	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
113902	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
114101	Conifers, above-ground biomass < 50 tonnes/ha	0.4
114102	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
114103	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
114201	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
114202	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
114301	Other broadleaf, above- ground biomass < 75 tonnes/ha	0.46
114302	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
114303	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
114401	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
114402	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
114601	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
114701	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
114702	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
115901	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
115902	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
116001	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
116002	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
116101	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
116201	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
116202	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
116301	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
116302	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
116303	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
116401	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
116402	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
116403	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
116601	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
116602	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
116701	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
116702	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
116801	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
116802	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
116901	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24

116902	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
117001	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
117101	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
117102	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
117103	Other broadleaf, above- ground biomass 75-150 tonnes/ha	0.23
117104	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
117201	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
117202	Other broadleaf, above- ground biomass < 75 tonnes/ha	0.46
117501	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
117502	Other broadleaf, above- ground biomass < 75 tonnes/ha	0.46
117801	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
118101	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
118102	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
118103	Conifers, above-ground biomass < 50 tonnes/ha	0.4
118104	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
118201	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
118202	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
118203	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
118301	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
118302	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
118401	Conifers, above-ground biomass < 50 tonnes/ha	0.4
118402	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
118403	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
118501	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
118502	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
118601	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
118602	Other broadleaf, above- ground biomass 75-150 tonnes/ha	0.23
118801	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
118802	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
118803	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
119001	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
119002	Other broadleaf, above- ground biomass >150 tonnes/ha	0.24
119201	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
119202	Conifers, above-ground biomass 50-150 tonnes/ha	0.29
121001	Conifers, above-ground biomass < 50 tonnes/ha	0.4

To calculate total carbon stocks in trees Equation 21 was used:

$$C_{treei,sp,t} = \sum_{j=1}^{SPS} (C_{ABtre\ l,j,i,sp,t} + C_{BBtr\ l,j,i,sp,t})$$

where:

$C_{tree,i,sp,t}$	Carbon stock in trees in plot sp of measurement stratum i at time t (t C)
$C_{aBtree,l,j,i,sp,t}$	Carbon stock in above-ground biomass of tree l of species j in plot sp in measurement stratum i at time t (t C tree-1)
$C_{bBtree,l,j,i,sp,t}$	Carbon stock in below-ground biomass of tree l of species j in plot sp in measurement stratum i at time t (t C tree-1)
i	1, 2, 3, ..., MPS measurement strata in the project scenario
j	1, 2, 3, ..., SPS tree species in the project scenario
t	1, 2, 3, ..., t* years elapsed since the start of the IFM project activity

To calculate the carbon stocks in trees for each measurement stratum Equation 22 was used:

$$C_{tree,i,t} = \frac{A_i}{Asp_i} \sum_{sp=1}^{P_i} C_{tree,i,sp,t}$$

where:

$C_{tree,i,t}$	Carbon stock in trees in measurement stratum i at time t (t C)
$C_{tree,i,sp,t}$	Carbon stock in trees in plot sp of measurement stratum i at time t (t C)
Asp_i	Total area of all sample plots in measurement stratum i (ha)
A_i	Area of measurement stratum i (ha)
sp	1, 2, 3, ..., P_i sample plots in measurement stratum i in the project scenario
i	1, 2, 3, ..., MPS measurement strata in the project scenario
t	1, 2, 3, ..., t* years elapsed since the start of the IFM project activity

To calculate the annual carbon stock changes in above-ground biomass of trees Equation 23 was used:

$$\Delta C_{AG,i,t} + \Delta C_{BG,i,t} = \frac{C_{tree,i,t_2} - C_{tree,i,t_1}}{T}$$

where:

$\Delta C_{AG,i,t}$	Annual carbon stock change in above-ground biomass of trees for measurement stratum i (tC yr-1)
$\Delta C_{BG,i,t}$	Annual carbon stock change in below-ground biomass of trees for measurement stratum i (tC yr-1)
$C_{tree,i,t}$	Carbon stock in trees in measurement stratum i at time t (t C)
T	Number of years between monitoring time t1 and t2 ($T = t_2 - t_1$) (yr)
i	1, 2, 3, ..., MPS measurement strata in the project scenario
t	1, 2, 3, ..., t^* years elapsed since the start of the IFM project activity

Dead wood carbon and harvested wood carbon pools within the project were calculated in the same manner as the baseline. No harvesting was modeled during ex-post modeling, as no harvesting occurred this monitoring period. Information related to the calculation of dead wood harvested wood carbon stocks is available in Section 5.1.

From VM0003 Methodology section 8.5.2, Equation 35, the change in GHG emissions as a result of the implementation of the proposed IFM project activity within the project area was estimated as:

$$GHG_{PS,E} = \sum_{t=1}^{t^*} (E_{PS,BiomassBurn,t})$$

where:

$GHG_{PS,E}$	Greenhouse gas emissions as a result of forest management activities within the project area in the project scenario; tCO2e
$E_{PS, BiomassBurn,t}$	Non-CO2 emissions due to biomass burning as part of forest management during the year t in the project scenario; tCO2e

T	1, 2, 3 ...t* years elapsed since the start of the IFM project activity
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Because the only GHG emitting activity considered by the methodology is biomass burning, and no biomass burning has taken or will take place within the project area for the duration of the project, the emissions caused by the project are zero.

The volume and biomass equations and references were sourced from the US Forest Inventory & Analysis (FIA) program, which are also used in both the California Air Resources Board and Climate Action Reserve programs and are available on both of these programs' websites, listed in Annex I. Biomass equations were compiled in proprietary visual basic analysis (VBA) code in Microsoft Excel and data analysis software. Tree species, DBH, height, decay, and region-specific biomass equations were used to calculate carbon estimates in tonnes of CO₂ equivalent. Carbon was only calculated for trees above 12.7 cm (5 in) at DBH and above.

Default values that were used within equations in Sections 5.1 and 5.2 are provided below:

Table 16: Equation Number

Equation Number	Default Name	Default Abbreviation	Default Value
32	Wood Waste Fraction	WW	0.19
33	Proportion of Remaining Wood Products Oxidized (sawnwood & paper)	OF	0.62
34	Short-lived proportion (sawnwood)	Slp (sawnwood)	0.12
34	Short-lived proportion (paper)	Slp (paper)	0.24
35	Short-lived proportion years 3 to 5 (sawnwood)	Slpadj (sawnwood)	0.08
35	Short-lived proportion years 3 to 5 (paper)	Slpadj (paper)	0.16

Project Emissions for Current Monitoring Period

To determine the project emissions for the current monitoring period the equations described above were used. Values were calculated for the start and end dates of the monitoring period and the difference was found.

Total project emissions for the current monitoring period are 111,461 tCO₂e. All calculations related to project emissions are available in the ERR Calculation Spreadsheet (Annex AB), the model results workbook (Annex AC), and the project Treelist (Annex W).

The forest inventories conducted within all PAIs were performed between the beginning and end of Monitoring Period 2. All treelist values have undergone a QAQC procedure to verify accuracy as seen in Annex AL.

Project – Above and Belowground Living Carbon ($\Delta C_{AG} + \Delta C_{BG}$, VM0003 Equation 23)

ΔC_{AG} was calculated by summing the carbon (tC) contained in above ground living trees in each measurement stratum at the beginning and end of the Monitoring Period and finding the difference, see Annex W.

ΔC_{BG} was calculated by using a root-to-shoot ratio (R) defined by forest inventory per measurement strata, as seen in Section 4.1. R was multiplied by above ground living biomass to determine below ground living biomass. ΔC_{AG} was then summed from management strata into the associated measurement strata, see Annex AC. See section 5.1 for a description of the steps taken to aggregate management strata to relevant measurement strata.

Project – Above and Belowground Living Carbon (ΔC_{DW} , VM0003 Equation 24)

ΔC_{DW} contains two components: lying and standing dead wood. Standing dead wood carbon was estimated using inventory data contained in Annex W, summed by management stratum then summed again by measurement stratum (Annex AC). See section 5.1 for a description of the steps taken to aggregate management strata to relevant measurement strata. FIA biomass equations, which incorporate the decomposition class of the tree per the VM0003 Methodology, were used to calculate initial standing dead wood. To determine change in standing dead wood over the current monitoring period, FVS was used to forecast future standing dead wood carbon stocks over the next 100 years. This value was averaged over a 100-year time period (expressed as tCO₂e/acre/year), Annex AC.

Lying dead wood is conservatively not being credited during this monitoring period but is an included pool and will be credited in future monitoring periods.

As no harvests took place during this monitoring period, wood products were excluded from ex-post calculations.

All final outputs from Annex AC associated with the project scenario were summarized by measurement stratum and converted into tC/acre, if necessary, by dividing by 44/12 prior to use within the ERR Calculation Spreadsheet, Annex AB.

5.2.1 Uncredited Reserve Stock

The project accounts for emissions from the implementation of limited harvesting as allowed by the policies of Forest Carbon Works which include continuous thinning, group selection and patch cuts for the purpose of maintaining forest health (IFM 1). These emissions shall be quantified based on measurements of stock change according to the measurement methods required by VM0003. Were the total project emissions as a result of harvesting as allowed by policy to exceed the quantity of the URS, such excess emissions would be accounted for in the selected carbon pools and Equation 12. No harvesting occurred during this monitoring period, as such, no quantification of this pool is necessary.

5.3. Leakage Emissions

Following the VM0003 methodology, leakage emissions were quantified as the GHG emissions due to market effects resulting from a shift in harvest through time. Leakage was estimated using VM0003 Methodology Section 8.6, Equation 39:

$$LK = LK_{MarketEffects}$$

where:

LK	Total GHG emissions due to leakage; tCO ₂ e
LK _{Market Effects}	Total GHG emissions due to impacts of project on timber supply and demand (tCO ₂ e)

Leakage due to market effects was calculated from VM0003 Methodology Section 8.6.1, Equation 41:

$$LK_{MarketEffects} = LF_{ME} * (\Delta C_{ACTUAL} - \Delta C_{BSL})$$

where:

LF _{MarketEffects}	Total GHG emissions due to market- effects leakage through decreased timber harvest; t CO ₂ -e
LF _{ME}	Leakage factor for market-effects calculations; dimensionless

The leakage factor (LF_{ME}) was determined by using regional FIA data for all PAIs and the locations to where harvesting would likely be displaced. Within each measurement stratum, the proportion of total biomass in merchantable species (PMP_i) was calculated and compared with the mean proportion of total merchantable biomass for each forest type (PML_{FT}). These calculations were carried out in Annex W. Values for the merchantable biomass as a proportion of total biomass by forest type (PML_{FT}) were obtained from section 9.1 of the VM0003 methodology.

Merchantable biomass is defined as total gross biomass (including bark) of a tree 12.7 cm (5 in) DBH or larger from a 30.48 cm (1-ft) stump to either the minimum of 10.2 cm (4 in) top DOB of the central stem or the highest merchantable height of the central stem. Trees were not considered merchantable if they were not a species commercially harvested in the region or had bole forms that would prevent efficient milling of wood products from taking place.

After PMP_i and PML_{FT} were calculated for each stratum, a leakage deduction factor (LF_{ME}) was applied to that stratum, determined by the relationship between PMP_i and PML_{FT} :

Where:

PML_{FT} is equal ($\pm 15\%$) to PMP_i , $LF_{ME} = 0.4$

PML_{FT} is $> 15\%$ less than PMP_i , $LF_{ME} = 0.7$

PML_{FT} is $> 15\%$ greater than PMP_i , $LF_{ME} = 0.2$

Where:

PML_{FT}	Mean merchantable biomass as a proportion of total aboveground tree biomass for each forest type; % (see Section 4.1)
PMP_i	Merchantable biomass as a proportion of total aboveground tree biomass for measurement stratum i within the project boundaries; % (see Section 4.2)
LF_{ME}	Leakage factor for market-effects calculations; dimensionless

Leakage Emissions for Current Monitoring Period

Following the procedures described above, LF_{ME} was determined for each measurement strata for the current monitoring period, see Annex W. Calculation of LF_{ME} required PML_{FT} and PMP_i values calculated in Annex W, tables for which are found in Section 4.2.

Table 17. Measurement strata and Associated Leakage Factor, Market Effects.

Measurement stratum	AG Biomass (t)	Merch Biomass (t)	PMP_i	PML_{FT}	Forest Type	$PMP_i - PML_{FT}$	LF_{ME} (%)
100701	210.97	68.91	33%	70%	Douglas Fir	-37%	20%
100702	109.34	32.51	30%	70%	Douglas Fir	-40%	20%
100703	0.00	0.00	0%	70%	Douglas Fir	-70%	20%
101201	67.05	21.12	32%	76%	Maple Beech Birch	-44%	20%
101202	45.06	16.02	36%	73%	Oak Hickory	-37%	20%
101203	63.61	21.48	34%	73%	Oak Hickory	-39%	20%
101401	47.50	15.92	34%	73%	Oak Hickory	-39%	20%
101402	17.12	5.33	31%	73%	Oak Hickory	-42%	20%
101403	6.19	2.11	34%	71%	Oak Pine	-37%	20%
102301	1.61	0.77	48%	77%	White Red Jack Pine	-29%	20%
102302	0.53	0.23	44%	58%	Spruce Fir	-14%	40%
102303	0.06	0.02	41%	58%	Spruce Fir	-17%	20%

102401	5.52	0.00	0%	69%	Western Oak	-69%	20%
102402	76.20	18.19	24%	69%	Western Oak	-45%	20%
102501	0.00	0.00	0%	58%	Spruce Fir	-58%	20%
102502	2.91	1.65	57%	73%	Oak Hickory	-16%	20%
102601	8.63	2.14	25%	58%	Spruce Fir	-33%	20%
102602	1.50	0.30	20%	69%	Western Oak	-49%	20%
102603	1.49	0.16	11%	58%	Spruce Fir	-47%	20%
102701	9.33	2.71	29%	73%	Oak Hickory	-44%	20%
102702	3.83	1.12	29%	71%	Oak Pine	-42%	20%
102801	2.13	1.03	48%	77%	White Red Jack Pine	-29%	20%
102802	2.09	1.13	54%	77%	White Red Jack Pine	-23%	20%
102901	9.91	2.72	27%	69%	Western Oak	-42%	20%
102902	6.74	1.50	22%	70%	Douglas Fir	-48%	20%
103001	4.20	2.07	49%	73%	Oak Hickory	-24%	20%
103002	0.86	0.23	26%	58%	Spruce Fir	-32%	20%
103101	3.26	2.23	68%	71%	Oak Pine	-3%	40%
103102	0.28	0.18	65%	71%	Oak Pine	-6%	40%
103301	20.90	5.52	26%	76%	Maple Beech Birch	-50%	20%
103302	7.93	1.86	23%	62%	Fir-Spruce/Mountain Hemlock	-39%	20%
103401	1.08	0.18	16%	64%	Ponderosa Pine	-48%	20%
103402	0.74	0.08	11%	64%	Ponderosa Pine	-53%	20%
103501	10.61	3.21	30%	76%	Maple Beech Birch	-46%	20%
103502	5.13	1.17	23%	77%	White Red Jack Pine	-54%	20%
103601	27.91	8.12	29%	70%	Douglas Fir	-41%	20%
103701	6.63	2.10	32%	76%	Maple Beech Birch	-44%	20%
103702	12.30	3.20	26%	76%	Maple Beech Birch	-50%	20%
103801	12.70	4.20	33%	71%	Oak Pine	-38%	20%
103802	10.91	4.14	38%	71%	Oak Pine	-33%	20%
103901	13.14	4.08	31%	76%	Maple Beech Birch	-45%	20%
103902	1.78	0.60	34%	76%	Maple Beech Birch	-42%	20%
104001	10.08	3.00	30%	72%	Oak Gum Cypress	-42%	20%
104101	16.28	4.06	25%	71%	Oak Pine	-46%	20%
104201	7.33	2.68	37%	73%	Oak Hickory	-36%	20%
104202	12.00	4.07	34%	73%	Oak Hickory	-39%	20%
104301	0.34	0.07	22%	62%	Fir-Spruce/Mountain Hemlock	-40%	20%

104302	3.68	0.94	26%	62%	Fir-Spruce/Mountain Hemlock	-36%	20%
104303	4.81	1.62	34%	76%	Maple Beech Birch	-42%	20%
104401	7.53	2.00	27%	76%	Maple Beech Birch	-49%	20%
104402	11.09	3.64	33%	62%	Fir-Spruce/Mountain Hemlock	-29%	20%
104501	2.79	0.82	29%	73%	Oak Hickory	-44%	20%
104502	4.42	1.37	31%	73%	Oak Hickory	-42%	20%
104601	6.92	2.19	32%	73%	Elm Ash Cottonwood	-41%	20%
104701	17.11	6.33	37%	73%	Oak Hickory	-36%	20%
104801	13.28	3.81	29%	73%	Oak Hickory	-44%	20%
104802	8.85	3.24	37%	73%	Oak Hickory	-36%	20%
104803	7.22	1.69	23%	76%	Maple Beech Birch	-53%	20%
105001	11.80	3.82	32%	73%	Oak Hickory	-41%	20%
105002	1.82	0.52	28%	77%	White Red Jack Pine	-49%	20%
105101	8.67	1.74	20%	71%	Oak Pine	-51%	20%
105102	6.03	1.77	29%	73%	Loblolly Shortleaf Pine	-44%	20%
105201	3.91	0.86	22%	58%	Spruce Fir	-36%	20%
105202	5.63	1.32	23%	77%	White Red Jack Pine	-54%	20%
105301	2.35	0.50	22%	76%	Maple Beech Birch	-54%	20%
105302	8.17	2.27	28%	76%	Maple Beech Birch	-48%	20%
105401	9.77	6.84	70%	76%	Maple Beech Birch	-6%	40%
105402	1.56	1.10	71%	76%	Maple Beech Birch	-5%	40%
105501	6.07	3.72	61%	73%	Oak Hickory	-12%	40%
105601	5.82	1.64	28%	71%	Oak Pine	-43%	20%
105602	6.91	2.38	35%	73%	Oak Hickory	-38%	20%
105603	5.27	1.54	29%	71%	Oak Pine	-42%	20%
105701	6.91	3.57	52%	73%	Oak Hickory	-21%	20%
105702	0.57	0.16	28%	73%	Elm Ash Cottonwood	-45%	20%
105801	6.88	2.14	31%	73%	Oak Hickory	-42%	20%
105802	11.54	3.77	33%	62%	Fir-Spruce/Mountain Hemlock	-29%	20%
105803	13.06	4.45	34%	76%	Maple Beech Birch	-42%	20%
105901	91.19	25.31	28%	70%	Douglas Fir	-42%	20%
106101	1.45	0.66	46%	61%	Aspen Birch	-15%	20%
106102	0.39	0.18	46%	61%	Aspen Birch	-15%	20%
106103	0.08	0.03	45%	66%	Western larch	-21%	20%

106201	5.66	1.36	24%	76%	Maple Beech Birch	-52%	20%
106202	19.43	6.00	31%	73%	Oak Hickory	-42%	20%
106301	16.25	4.88	30%	70%	Douglas Fir	-40%	20%
106302	33.34	10.48	31%	70%	Douglas Fir	-39%	20%
106401	6.27	1.48	24%	62%	Fir-Spruce/Mountain Hemlock	-38%	20%
106501	28.56	6.76	24%	67%	Hemlock/Sitka Spruce	-43%	20%
106502	1.75	0.53	30%	67%	Hemlock/Sitka Spruce	-37%	20%
106601	7.89	2.08	26%	58%	Spruce Fir	-32%	20%
106602	1.62	0.19	12%	58%	Spruce Fir	-46%	20%
106701	8.47	2.61	31%	76%	Maple Beech Birch	-45%	20%
106702	3.25	1.05	32%	76%	Maple Beech Birch	-44%	20%
106801	6.73	2.13	32%	76%	Maple Beech Birch	-44%	20%
106802	8.10	1.86	23%	62%	Fir-Spruce/Mountain Hemlock	-39%	20%
106901	19.48	4.04	21%	70%	Douglas Fir	-49%	20%
106902	1.72	0.51	30%	70%	Douglas Fir	-40%	20%
106903	2.13	0.56	26%	70%	Douglas Fir	-44%	20%
107001	2.24	0.61	27%	70%	Douglas Fir	-43%	20%
107002	4.21	1.22	29%	70%	Douglas Fir	-41%	20%
107301	15.84	3.98	25%	76%	Maple Beech Birch	-51%	20%
107302	2.48	0.68	27%	73%	Elm Ash Cottonwood	-46%	20%
107401	21.24	6.70	32%	73%	Oak Hickory	-41%	20%
107402	6.38	2.17	34%	73%	Oak Hickory	-39%	20%
107403	1.64	0.53	33%	73%	Loblolly Shortleaf Pine	-40%	20%
108001	18.44	5.69	31%	72%	Oak Gum Cypress	-41%	20%
108201	13.13	3.94	30%	76%	Maple Beech Birch	-46%	20%
108202	1.59	0.54	34%	76%	Maple Beech Birch	-42%	20%
108301	8.88	2.86	32%	76%	Maple Beech Birch	-44%	20%
108302	11.28	3.62	32%	76%	Maple Beech Birch	-44%	20%
108401	19.76	8.15	41%	69%	Western Oak	-28%	20%
108402	2.67	0.80	30%	69%	Western Oak	-39%	20%
108501	4.79	2.76	58%	73%	Oak Hickory	-15%	20%
108601	13.78	4.30	31%	76%	Maple Beech Birch	-45%	20%
108701	18.04	5.18	29%	70%	Douglas Fir	-41%	20%
108702	12.89	3.46	27%	70%	Douglas Fir	-43%	20%

108801	18.77	5.76	31%	73%	Oak Hickory	-42%	20%
108901	1.98	0.72	36%	58%	Spruce Fir	-22%	20%
108902	2.69	1.09	41%	76%	Maple Beech Birch	-35%	20%
109001	20.06	8.12	40%	69%	Western Oak	-29%	20%
109002	16.22	5.57	34%	69%	Western Oak	-35%	20%
109401	3.54	1.12	32%	76%	Maple Beech Birch	-44%	20%
109402	16.65	5.28	32%	76%	Maple Beech Birch	-44%	20%
109501	23.86	7.90	33%	73%	Oak Hickory	-40%	20%
103201	6.92	4.37	63%	76%	Maple Beech Birch	-13%	0.4
103202	1.31	0.70	54%	76%	Maple Beech Birch	-22%	0.2
104901	1.45	0.23	16%	58%	Spruce Fir	-42%	0.2
104902	0.68	0.07	11%	58%	Spruce Fir	-47%	0.2
104903	0.95	0.25	27%	58%	Spruce Fir	-31%	0.2
104904	1.40	0.27	19%	58%	Spruce Fir	-39%	0.2
107101	2.16	1.20	56%	76%	Maple Beech Birch	-20%	0.2
107102	5.72	2.14	37%	58%	Spruce Fir	-21%	0.2
107103	1.59	0.87	55%	76%	Maple Beech Birch	-21%	0.2
107104	0.76	0.45	59%	77%	White Red Jack Pine	-18%	0.2
107901	10.54	3.88	37%	72%	Oak Gum Cypress	-35%	0.2
109101	17.64	5.51	31%	76%	Maple Beech Birch	-45%	0.2
109201	28.94	10.86	38%	73%	Oak Hickory	-35%	0.2
109301	44.69	13.06	29%	76%	Maple Beech Birch	-47%	0.2
109302	20.26	6.68	33%	76%	Maple Beech Birch	-43%	0.2
109701	8.34	2.68	32%	76%	Maple Beech Birch	-44%	0.2
109702	2.08	0.58	28%	73%	Oak Hickory	-45%	0.2
109901	7.41	1.87	25%	61%	Aspen Birch	-36%	0.2
109902	8.72	2.28	26%	76%	Maple Beech Birch	-50%	0.2
109903	13.70	4.41	32%	73%	Oak Hickory	-41%	0.2
109904	11.21	3.56	32%	73%	Oak Hickory	-41%	0.2
110001	8.76	2.84	32%	76%	Maple Beech Birch	-44%	0.2
110002	9.05	2.84	31%	73%	Oak Hickory	-42%	0.2
110003	3.57	1.10	31%	73%	Oak Hickory	-42%	0.2
110101	20.03	5.87	29%	73%	Oak Hickory	-44%	0.2
110102	10.61	3.45	32%	76%	Maple Beech Birch	-44%	0.2
110201	8.15	1.99	24%	73%	Elm Ash Cottonwood	-49%	0.2
110202	0.19	0.04	20%	58%	Spruce Fir	-38%	0.2
110301	0.94	0.17	18%	76%	Maple Beech Birch	-58%	0.2
110302	1.73	0.09	5%	73%	Loblolly Shortleaf Pine	-68%	0.2
110303	2.82	0.66	23%	73%	Loblolly Shortleaf Pine	-50%	0.2

110401	2.94	0.93	32%	73%	Oak Hickory	-41%	0.2
110402	9.80	3.37	34%	73%	Oak Hickory	-39%	0.2
110501	0.32	0.17	54%	77%	White Red Jack Pine	-23%	0.2
110502	2.93	1.60	55%	61%	Aspen Birch	-6%	0.4
110503	5.89	2.31	39%	58%	Spruce Fir	-19%	0.2
110504	2.39	1.16	48%	76%	Maple Beech Birch	-28%	0.2
110701	13.75	4.03	29%	70%	Douglas Fir	-41%	0.2
110702	7.08	2.16	30%	70%	Douglas Fir	-40%	0.2
110801	0.51	0.26	51%	61%	Aspen Birch	-10%	0.4
110802	0.80	0.48	61%	73%	Elm Ash Cottonwood	-12%	0.4
110803	0.04	0.01	34%	61%	Aspen Birch	-27%	0.2
110901	13.12	4.44	34%	73%	Elm Ash Cottonwood	-39%	0.2
111001	13.60	4.66	34%	73%	Oak Hickory	-39%	0.2
111101	5.88	1.80	31%	76%	Maple Beech Birch	-45%	0.2
111102	8.76	2.64	30%	76%	Maple Beech Birch	-46%	0.2
111201	7.67	2.09	27%	76%	Maple Beech Birch	-49%	0.2
111202	4.58	1.16	25%	73%	Elm Ash Cottonwood	-48%	0.2
111301	8.53	3.60	42%	69%	Western Oak	-27%	0.2
111401	7.68	2.47	32%	76%	Maple Beech Birch	-44%	0.2
111402	7.56	1.77	23%	77%	White Red Jack Pine	-54%	0.2
111403	5.61	1.38	25%	77%	White Red Jack Pine	-52%	0.2
111501	5.68	1.69	30%	76%	Maple Beech Birch	-46%	0.2
111502	2.69	0.72	27%	76%	Maple Beech Birch	-49%	0.2
111601	5.94	1.43	24%	61%	Aspen Birch	-37%	0.2
111602	2.56	0.61	24%	61%	Aspen Birch	-37%	0.2
111701	4.70	1.63	35%	73%	Oak Hickory	-38%	0.2
111702	13.61	4.57	34%	73%	Oak Hickory	-39%	0.2
111801	5.56	1.75	31%	73%	Loblolly Shortleaf Pine	-42%	0.2
111802	0	0	0%	73%	Loblolly Shortleaf Pine	-73%	0.2
111803	2.70	0.86	32%	71%	oak pine	-39%	0.2
111901	25.27	9.11	36%	73%	Oak Hickory	-37%	0.2
112001	9.62	3.39	35%	71%	oak pine	-36%	0.2
112002	2.22	0.72	33%	73%	Loblolly Shortleaf Pine	-40%	0.2
112101	9.82	3.02	31%	73%	Oak Hickory	-42%	0.2
112102	26.07	8.77	34%	73%	Oak Hickory	-39%	0.2
112201	23.76	2.30	10%	70%	Douglas Fir	-60%	0.2

112202	4.73	0.86	18%	70%	Douglas Fir	-52%	0.2
112301	4.92	1.55	31%	73%	Oak Hickory	-42%	0.2
112302	6.12	2.11	34%	73%	Oak Hickory	-39%	0.2
112401	1.83	0.88	48%	77%	White Red Jack Pine	-29%	0.2
112402	2.90	1.53	53%	71%	Oak Pine	-18%	0.2
112501	0.45	0.10	22%	58%	Spruce Fir	-36%	0.2
112601	12.98	4.07	31%	76%	Maple Beech Birch	-45%	0.2
113301	17.04	5.49	32%	76%	Maple Beech Birch	-44%	0.2
113401	14.96	4.45	30%	76%	Maple Beech Birch	-46%	0.2
113402	26.42	8.73	33%	73%	Loblolly Shortleaf Pine	-40%	0.2
113801	0.00	0.00	0%	61%	Aspen Birch	-61%	0.2
113901	1.55	0.24	15%	70%	Douglas Fir	-55%	0.2
113902	3.58	0.96	27%	70%	Douglas Fir	-43%	0.2
114101	0.39	0.13	35%	73%	Loblolly Shortleaf Pine	-38%	0.2
114102	14.42	4.64	32%	73%	Loblolly Shortleaf Pine	-41%	0.2
114103	1.76	0.51	29%	72%	Oak Gum Cypress	-43%	0.2
114201	5.31	1.85	35%	76%	Maple Beech Birch	-41%	0.2
114202	11.89	3.77	32%	73%	Oak Hickory	-41%	0.2
114301	0.34	0.08	22%	58%	Spruce Fir	-36%	0.2
114302	4.45	1.41	32%	58%	Spruce Fir	-26%	0.2
114303	6.01	2.19	36%	73%	Oak Hickory	-37%	0.2
114401	57.12	21.24	37%	73%	Oak Hickory	-36%	0.2
114402	13.33	4.30	32%	73%	Loblolly Shortleaf Pine	-41%	0.2
114601	11.13	3.71	33%	73%	Loblolly Shortleaf Pine	-40%	0.2
114701	5.32	1.18	22%	77%	White Red Jack Pine	-55%	0.2
114702	2.00	0.70	35%	71%	oak pine	-36%	0.2
115901	2.96	0.93	31%	73%	Loblolly Shortleaf Pine	-42%	0.2
115902	0.91	0.30	33%	73%	Loblolly Shortleaf Pine	-40%	0.2
116001	14.27	5.34	37%	77%	White Red Jack Pine	-40%	0.2
116002	3.58	1.01	28%	71%	Oak Pine	-43%	0.2
116101	10.97	3.66	33%	72%	Oak Gum Cypress	-39%	0.2
116201	6.39	1.86	29%	73%	Oak Hickory	-44%	0.2
116202	5.58	1.95	35%	73%	Elm Ash Cottonwood	-38%	0.2
116301	4.14	1.13	27%	70%	Douglas Fir	-43%	0.2
116302	0.00	0.00	0%	70%	Douglas Fir	-46%	0.2

116303	2.87	0.79	27%	64%	Ponderosa Pine	-37%	0.2
116401	9.91	2.59	26%	77%	White Red Jack Pine	-51%	0.2
116402	24.24	6.94	29%	76%	Maple Beech Birch	-47%	0.2
116403	47.65	15.13	32%	76%	Maple Beech Birch	-44%	0.2
116601	11.87	3.25	27%	67%	Hemlock/Sitka Spruce	-40%	0.2
116602	17.98	4.83	27%	67%	Hemlock/Sitka Spruce	-40%	0.2
116701	11.35	3.23	28%	77%	White Red Jack Pine	-49%	0.2
116702	3.59	1.20	33%	76%	Maple Beech Birch	-43%	0.2
116801	5.31	1.33	25%	73%	Oak Hickory	-48%	0.2
116802	6.75	2.37	35%	76%	Maple Beech Birch	-41%	0.2
116901	10.78	3.83	35%	76%	Maple Beech Birch	-41%	0.2
116902	1.85	0.58	31%	76%	Maple Beech Birch	-45%	0.2
117001	3.63	1.50	41%	61%	Aspen Birch	-20%	0.2
117101	2.17	1.09	50%	61%	Aspen Birch	-11%	0.4
117102	0.45	0.22	49%	58%	Spruce Fir	-9%	0.4
117103	1.14	0.46	40%	58%	Spruce Fir	-18%	0.2
117104	1.75	0.89	51%	76%	Maple Beech Birch	-25%	0.2
117201	2.26	1.34	59%	73%	Oak Hickory	-14%	0.4
117202	0.19	0.10	51%	71%	Oak Pine	-20%	0.2
117501	2.80	0.92	33%	73%	Oak Hickory	-40%	0.2
117502	0.00	0.00	0%	76%	Maple Beech Birch	-76%	0.2
117801	13.38	4.52	34%	73%	Loblolly Shortleaf Pine	-39%	0.2
118101	2.65	0.82	31%	73%	Loblolly Shortleaf Pine	-42%	0.2
118102	7.20	2.58	36%	73%	Loblolly Shortleaf Pine	-37%	0.2
118103	0.23	0.07	29%	73%	Loblolly Shortleaf Pine	-44%	0.2
118104	10.20	3.44	34%	73%	Loblolly Shortleaf Pine	-39%	0.2
118201	44.77	12.14	27%	70%	Douglas Fir	-43%	0.2
118202	126.67	29.37	23%	67%	Hemlock/Sitka Spruce	-44%	0.2
118203	0	0	0%	67%	Hemlock/Sitka Spruce	-67%	0.2
118301	12.37	0.37	3%	70%	Douglas Fir	-67%	0.2
118302	6.74	1.17	17%	69%	Western Oak	-52%	0.2
118401	0.11	0.04	33%	73%	Loblolly Shortleaf Pine	-40%	0.2
118402	5.16	1.45	28%	73%	Loblolly Shortleaf Pine	-45%	0.2
118403	3.03	1.02	34%	73%	Loblolly Shortleaf Pine	-39%	0.2

118501	8.57	2.96	35%	73%	Oak Hickory	-38%	0.2
118502	4.40	1.44	33%	73%	Loblolly Shortleaf Pine	-40%	0.2
118601	14.21	4.52	32%	71%	oak pine	-39%	0.2
118602	1.20	0.39	33%	73%	Oak Hickory	-40%	0.2
118801	12.13	3.92	32%	70%	Douglas Fir	-38%	0.2
118802	7.42	2.26	31%	69%	Western Oak	-38%	0.2
118803	3.33	0.89	27%	69%	Western Oak	-42%	0.2
119001	9.13	1.84	20%	77%	White Red Jack Pine	-57%	0.2
119002	13.87	4.49	32%	76%	Maple Beech Birch	-44%	0.2
119201	2.15	0.49	23%	58%	Spruce Fir	-35%	0.2
119202	4.71	1.29	27%	58%	Spruce Fir	-31%	0.2
121001	0.33	0.13	39%	58%	Spruce Fir	-19%	0.2

Per applicability condition 8 of the VM0003 methodology, the project must not have any leakage because of activity shifting to lands owned by the project proponent that are outside the project area. Per Eligibility Criteria 2d, there was not and will not be leakage due to activity shifting. The project proponent (FCW) does not own any lands, forested or otherwise. The landowner(s) of associated PAI(s) at the time of verification have enrolled all forested lands in their ownership, per the signed agreement found in Annex D. The project proponent performed further diligence checks of PAI landowner(s) for any other eligible forested land using geospatial analysis and publicly available land ownership data. The diligence check conducted by the project proponent (Annex AT) did not identify other eligible forestlands owned by the landowner(s) of each PAI. This confirms that there was no activity shifting leakage because the project proponent and landowners do not have any unenrolled forested lands to shift harvesting onto.

For the purposes of defining forestland, the Food and Agriculture Organization of the United Nations (FAO) definition (Annex K, 1a) was used. Per the FAO definition, land used predominantly under agricultural or urban land use was not considered forested and may be considered as “Other land with Tree Cover” (Annex K, 1f). Land use is the key criteria for distinguishing between forest (1a) and other land with tree cover (1f). Agricultural, urban, and residential land uses are considered “Other land with tree cover” (1f).

Market leakage assessments occurred at validation and verification and the appropriate market leakage discount factor was applied (VCS Standards 3.15.8 & 3.15.9).

Leakage Emissions for Current Monitoring Period

To determine the leakage emissions for the current monitoring period the equations described above were used. Total leakage emissions for the current monitoring period are 25,140 tCO₂e.

Uncredited Reserve Stock

As the policies of Forest Carbon Works limit harvesting to continuous thinning, group selection and patch cuts as the project technology and measure under ERA, and accounting for related harvest emissions from the URS must be in accordance with the policy, then no activity shifting leakage of harvesting in the baseline scenario is possible. The limited harvest emissions associated with the URS are generated by the project technologies and measures.

5.4. GHG Emission Reductions and Carbon Dioxide Removals

The net anthropogenic GHG reductions and removals were calculated with equation 42 of the VM0003 Methodology:

$$C_{IFM} = \Delta C_{ACTUAL} - \Delta C_{BSL} - LK$$

Where:

C_{IFM}	Net anthropogenic greenhouse gas reductions and removals (tCO ₂ e)
ΔC_{ACTUAL}	Change in actual net greenhouse gas removals by sinks (tCO ₂ e) during the current monitoring period
ΔC_{BSL}	Change in baseline net greenhouse gas removals by sinks (tCO ₂ e) during the current monitoring period
LK	Total GHG emissions due to leakage (tCO ₂ e)

Reductions are derived from the change in baseline carbon stocks after accounting for leakage and uncertainty deductions during the monitoring period. Removals are calculated by finding the change project carbon stocks after accounting for leakage, and uncertainty deductions during the monitoring period. All calculations are available for view in the ERR Calculation Spreadsheet (Annex AB).

Total uncertainty of the project was calculated by using equation 43 of the VM0003 Methodology:

$$C_{IFM_ERROR} = \sqrt{Uncertainty_{BSL}^2 + Uncertainty_P^2}$$

Where:

C_{IFM_ERROR}	Total uncertainty for IFM project (%)
$Uncertainty_{BSL}$	Total uncertainty in baseline scenario (%)
$Uncertainty_P$	Total uncertainty in the with-project scenario (%)

Per Section 4.4.1 of the Project Description, measurement stratum-level sampling variances were combined to a single project-level sampling variance. No deductions for uncertainty were taken during this monitoring period as C_{IFM_ERROR} was found to be less than 10%. Per the VM0003 Methodology, if C_{IFM_ERROR} is less than or equal to 10 percent of C_{IFM} , there is no deduction for uncertainty.

To estimate the amount of VCUs to be issued for this monitoring period equation 46 of the VM0003 Methodology was used:

$$VCUs = (C_{IFM,t_2} - C_{IFM,t_1}) - BRR$$

Where:

VCUs	Number of Verified Carbon Units
C_{IFM,t_2}	Net anthropogenic greenhouse gas removals by sinks, as estimated for $t^* = t_2$ (t CO ₂ e)
C_{IFM,t_1}	Net anthropogenic greenhouse gas removals by sinks, as estimated for $t^* = t_1$ (t CO ₂ e)
BRR	Portion of carbon credits to be withheld as a buffer reserve

As described above, all ex-post calculations for the following values can be found in provided workbooks: Annex W, Annex AC, or Annex AD. Baseline, Project, and Net GHG emissions reductions and/or removals were calculated within the ERR Calculation Spreadsheet in Visual Basic for Applications (VBA) in Annex AB.

Management strata with no harvesting in both the baseline and project management systems do not contribute to crediting from harvesting as carbon stocks are identical between the project and baseline scenarios, as demonstrated by the project and baseline models (see Annex AA). These management strata are included in the project area to satisfy requirements related to the prevention of activity-

shifting leakage, per eligibility criterion 2d (section 3.3). Applicable management strata are denoted with an asterisk in Management Strata, Table 13, in Section 5.

Baseline inputs required to run the ERR Calculation Spreadsheet included:

- $\Delta C_{BSL,tree,i,t}$
- $\Delta C_{BSL,DW,i,t}$
- $\Delta C_{BSL,WP,i,t}$
- Monitoring period length
- Ratio of molecular weight of CO₂ to carbon
- Acreage

Equations 3, 4, and 5 from VM0003 Methodology v1.3 were used to convert the inputs to $\Delta C_{BSL,tree}$; $\Delta C_{BSL,DW}$; and $\Delta C_{BSL,WP}$. Equation 2 was subsequently used to calculate the value of $\Delta C_{BSL,P}$. Because there were no greenhouse gas emissions as a result of forest management activities within the baseline scenario, GHG_{BSL,E} was equal to zero and $\Delta C_{BSL,P} = \Delta C_{BSL}$, per equation 1.

Ex-post project emissions reductions and/or removals required inputs for $\Delta C_{tree,i,t}$; $\Delta C_{DW,i,t}$; $\Delta C_{WP,i,t}$; monitoring period length, ratio of molecular weight of CO₂ to carbon, and acreage. ΔC_t was calculated using Equation 12 from the VM0003 Methodology v1.3 and the inputs described above. Equation 11 was subsequently used to calculate the value of ΔC_P by converting ΔC_t to tCO_{2e}. Because there were no greenhouse gas emissions as a result of forest management activities within the project area during Monitoring Period 1, GHG_E was equal to zero and $\Delta C_P = \Delta C_{actual}$, per equation 10.

Ex-post leakage was also calculated within the ERR Calculation Spreadsheet in Visual Basic for Applications (VBA) in Annex AB. The inputs required were ΔC_{BSL} , which was previously calculated using Equation 1 from the VM0003 Methodology v1.3; ΔC_{actual} , which was previously calculated using Equation 10; PMP_i, the merchantable biomass as a proportion of total above ground tree biomass for measurement stratum *i* within the project boundaries; and PML_{ft}, the mean merchantable biomass as a proportion of total above ground tree biomass for each forest type. PMP_i was determined using the treelist in Annex W. The total merchantable biomass in the project area was divided by the total gross biomass in the project area. PML_{ft} was determined using the Data/Parameter table for PML_{ft} in VM0003 Methodology v1.3 Section 9.1 to assign a default value for percent of merchantable biomass to each forest type in the project area (See Table 17). LF_{me} was calculated using PMP_i and PML_{ft} as inputs for the process detailed below Equation 42. Equation 42 was then used with the inputs ΔC_{BSL} , ΔC_{actual} , and the LF_{me} value to calculate LK_{Market Effects}. As Market Effects is equal to Leakage per Equation 40, this provides the final leakage value for the monitoring period.

Ex-post net GHG emissions reductions and/or removals required inputs for ΔC_{actual} , which was previously calculated in VM0003 Methodology v1.3 Equation 10; ΔC_{BSL} , which was previously calculated in Equation 1; Leakage, which was previously calculated in Equation 40; and baseline and

project uncertainty (UNC,P and UNC,BSL). Uncertainty in the baseline and project scenarios was determined to be the square root of the summed errors in each of the measurement pools, weighted by the size of the pool. C,IFM_Error was calculated using Equation 46 and the UNC,P and UNC, BSL values. Equation 47 was subsequently used to determine if the uncertainty deduction and discount factor were applicable to the determination of net GHG emissions reductions and/or removals and were used to calculate CIFM,adjusted. Because CIFM_Error is less than 10% this monitoring period for the Family Forest Carbon Project, no discount factor was applied.

Ex-post buffer pool allocations were calculated using the BRR, the portion of carbon credits to be withheld as a buffer reserve in the VCS AFOLU buffer account, thus replaced with like-for-like credits. The BRR for the project was determined to be 12% of net GHG emission reductions or removals. This was determined via the use of the VCS Tool for AFOLU Non-Permanence Risk Analysis and Buffer Determination, which can be found in Annex V and the Verra Project Hub. Internal, external, and natural risks were considered in the project's risk analysis and the BRR was acreage-weighted across all PAIs. The BRR was multiplied by the net GHG emissions reductions or removals (tCO₂e) to find the number of credits allocated to the buffer pool for the project in each monitoring period.

All ex-post calculation methods will have QAQC standards applied to them as detailed in Annex AL. All inputs and outputs were reviewed, and monitoring period dates were updated. Additionally, the project proponent ensured that all baseline emissions are negative and project emissions are positive.

Current monitoring period values are provided below:

State the non-permanence risk rating (%)	12%
Has the non-permanence risk report been attached as either an appendix or a separate document?	☒ Yes ☐ No
For ARR and IFM projects with harvesting, state, in tCO ₂ e, the Long-term Average (LTA).	N/A. No harvesting during this monitoring period.
Has the LTA been updated based on monitored data, if applicable?	☐ Yes ☐ No N/a, no harvesting during this monitoring period.
State, in tCO ₂ e, the expected total GHG benefit to date.	100,763
If a loss occurred (including a loss event or reversal), state the amount of tCO ₂ e lost:	N/A. No loss event or reversal this monitoring period.

Table 18. VCUs by PAI in 2023

2023

PAI	Baseline Emissions (tCO2e)	Project Emissions (tCO2e)	Leakage (tCO2e)	Buffer Pool (tCO2e)	Reductions VCUs (tCO2e)	Removals VCUs (tCO2e)	Total VCU Issuance (tCO2e)
1007	4	126	26	13	0	92	92
1012	137	658	159	76	33	527	559
1014	576	3044	724	348	114	2435	2548
1023	6	64	14	7	0	49	49
1024	38	58	19	9	21	47	68
1025	3	10	3	1	1	8	10
1026	2	54	11	5	0	40	40
1027	61	159	44	21	27	127	155
1028	5	24	6	3	1	19	20
1029	33	148	36	17	9	118	127
1030	6	27	7	3	2	22	23
1031	4	17	4	2	1	14	15
1032	5	24	6	3	2	19	21
1033	19	367	77	37	0	272	272
1034	-21	214	39	19	0	136	136
1035	18	65	17	8	7	52	58
1036	63	146	42	20	31	117	147
1037	18	58	15	7	7	46	53
1038	92	271	72	35	39	216	255
1039	16	85	20	10	3	68	71
1040	22	202	45	22	0	158	158
1041	17	37	11	5	8	29	38
1042	107	692	160	77	9	554	563
1043	2	14	3	2	0	11	11
1044	12	70	16	8	2	56	58
1045	10	209	44	21	0	154	154
1046	3	46	10	5	0	34	34
1047	26	108	27	13	8	87	94
1048	16	71	18	8	4	57	62
1049	4	54	12	6	0	41	41
1050	14	133	29	14	0	103	103
1051	5	70	15	7	0	52	52
1052	12	56	14	7	3	45	48
1053	8	67	15	7	0	53	53
1054	8	14	4	2	4	12	16

1055	10	25	7	3	5	20	24
1056	124	175	60	29	70	140	211
1057	69	313	77	37	19	251	269
1058	70	139	42	20	36	111	147
1059	71	1910	396	190	0	1395	1395
1061	4	25	6	3	1	20	21
1062	44	158	40	19	16	126	142
1063	321	1789	422	203	54	1431	1486
1064	1	51	10	5	0	37	37
1065	-20	173	31	15	0	108	108
1066	40	55	19	9	23	44	67
1067	23	156	36	17	1	124	126
1068	32	107	28	13	12	86	98
1069	5	680	137	66	0	482	482
1070	-13	349	67	32	0	237	237
1071	36	129	33	16	13	104	117
1073	20	96	23	11	5	77	81
1074	-71	1003	186	89	0	656	656
1079	6	125	26	13	0	92	92
1080	13	65	16	7	3	52	55
1082	19	249	54	26	0	189	189
1083	19	131	30	14	1	105	106
1084	-230	1433	240	115	0	846	846
1085	6	20	5	2	2	16	18
1086	7	41	10	5	1	33	34
1087	-17	994	195	94	0	688	688
1088	16	138	31	15	0	108	108
1089	3	9	2	1	1	8	9
1090	120	188	62	30	67	150	217
1091	115	840	191	92	0	672	672
1092	151	545	139	67	54	436	490
1093	422	1948	474	228	110	1559	1669
1094	36	174	42	20	9	139	148
1095	52	426	96	46	0	336	336
1097	11	347	72	34	0	252	252
1099	215	548	153	73	99	438	537
1100	66	341	81	39	14	273	286
1101	77	215	58	28	33	172	205
1102	3	26	6	3	0	21	21
1103	15	53	14	7	5	43	48

1104	10	48	12	6	3	39	41
1105	36	158	39	19	10	127	137
1107	344	2839	637	306	0	2241	2241
1108	2	18	4	2	0	13	13
1109	7	85	18	9	0	65	65
1110	12	93	21	10	0	74	74
1111	67	247	63	30	24	197	221
1112	19	99	23	11	4	79	83
1113	27	63	18	9	13	50	63
1114	18	79	19	9	5	64	68
1115	4	55	12	6	0	42	42
1116	2	51	11	5	0	37	37
1117	53	207	52	25	18	166	183
1118	2	246	50	24	0	175	175
1119	31	99	26	13	13	79	92
1120	32	347	76	36	0	267	267
1121	62	150	42	20	29	120	149
1122	60	166	45	22	26	133	159
1123	27	188	43	21	1	151	152
1124	3	30	7	3	0	23	23
1125	0	3	1	0	0	2	2
1126	5	20	5	2	1	16	17
1133	0	0	0	0	0	0	0
1134	-1	514	103	49	0	361	361
1138	0	0	0	0	0	0	0
1139	-4	78	15	7	0	52	52
1141	0	0	0	0	0	0	0
1142	3	12	3	1	1	9	10
1143	5	43	10	5	0	34	34
1144	142	737	176	84	29	589	619
1146	1	72	15	7	0	51	51
1147	2	8	2	1	1	6	7
1159	0	0	0	0	0	0	0
1160	0	0	0	0	0	0	0
1161	0	0	0	0	0	0	0
1162	0	0	0	0	0	0	0
1163	0	0	0	0	0	0	0
1164	0	0	0	0	0	0	0
1166	0	0	0	0	0	0	0
1167	0	0	0	0	0	0	0

1168	0	0	0	0	0	0	0
1169	0	0	0	0	0	0	0
1170	0	0	0	0	0	0	0
1171	0	0	0	0	0	0	0
1172	0	0	0	0	0	0	0
1175	0	0	0	0	0	0	0
1178	0	0	0	0	0	0	0
1181	0	0	0	0	0	0	0
1182	130	1144	255	122	0	897	897
1183	0	0	0	0	0	0	0
1184	0	0	0	0	0	0	0
1185	0	0	0	0	0	0	0
1186	0	0	0	0	0	0	0
1188	0	0	0	0	0	0	0
1190	0	0	0	0	0	0	0
1192	0	0	0	0	0	0	0
1210	0	0	0	0	0	0	0
2023 Total	4,343	31,554	7,179	3,446	1,166	24,106	25,270

Table 19. VCUs by PAI in 2024

PAI	2024						
	Baseline Emissions (tCO2e)	Project Emissions (tCO2e)	Leakage (tCO2e)	Buffer Pool (tCO2e)	Reductions VCUs (tCO2e)	Removals VCUs (tCO2e)	Total VCU Issuance (tCO2e)
1007	7	210	43	21	0	153	153
1012	229	1097	265	127	56	878	933
1014	961	5073	1207	579	189	4058	4248
1023	10	106	23	11	0	82	82
1024	64	97	32	16	36	78	114
1025	6	17	5	2	2	14	16
1026	4	90	19	9	0	66	66
1027	101	265	73	35	46	212	258
1028	8	39	9	5	2	31	33
1029	55	246	60	29	15	197	212

1030	10	45	11	5	3	36	39
1031	7	29	7	3	2	23	25
1032	9	40	10	5	3	32	35
1033	31	612	129	62	0	453	453
1034	-35	356	64	31	0	226	226
1035	30	108	28	13	11	87	97
1036	106	243	70	33	51	195	246
1037	30	96	25	12	12	77	89
1038	153	451	121	58	64	361	425
1039	26	142	34	16	5	114	119
1040	36	337	75	36	0	263	263
1041	28	61	18	9	14	49	63
1042	178	1154	266	128	15	923	938
1043	4	23	5	3	0	18	19
1044	20	117	27	13	3	94	96
1045	17	349	73	35	0	257	257
1046	5	76	16	8	0	57	57
1047	43	180	45	21	13	144	157
1048	27	119	29	14	7	95	103
1049	7	90	19	9	0	68	68
1050	24	221	49	23	0	172	172
1051	8	116	25	12	0	87	87
1052	20	93	23	11	5	75	79
1053	14	111	25	12	0	88	88
1054	13	24	7	4	7	19	26
1055	16	42	12	6	8	33	41
1056	207	292	100	48	117	234	351
1057	116	522	128	61	31	418	449
1058	116	232	70	33	60	185	245
1059	119	3183	660	317	0	2325	2325
1061	7	42	10	5	1	33	35
1062	74	263	67	32	27	210	237
1063	535	2982	703	338	90	2386	2476
1064	2	85	17	8	0	61	61
1065	-33	289	51	25	0	180	180
1066	66	92	32	15	38	74	112
1067	39	259	60	29	2	207	210
1068	54	179	47	22	21	143	164
1069	8	1133	228	109	0	803	803
1070	-22	582	112	54	0	394	394

1071	60	216	55	27	22	173	194
1073	33	160	38	18	8	128	135
1074	-118	1672	311	149	0	1094	1094
1079	10	209	44	21	0	154	154
1080	21	108	26	12	5	87	91
1082	32	414	89	43	0	314	314
1083	32	219	50	24	2	175	177
1084	-384	2388	401	192	0	1411	1411
1085	10	33	9	4	4	26	30
1086	11	69	16	8	1	55	56
1087	-28	1657	326	156	0	1147	1147
1088	26	230	51	25	0	180	180
1089	5	16	4	2	2	13	15
1090	201	313	103	49	111	251	362
1091	191	1401	318	153	0	1120	1120
1092	251	908	232	111	90	727	817
1093	703	3247	790	379	183	2598	2781
1094	60	290	70	34	15	232	247
1095	87	709	159	76	0	560	560
1097	18	579	119	57	0	420	420
1099	381	969	270	130	175	775	950
1100	109	568	136	65	23	455	477
1101	147	414	112	54	64	331	395
1102	6	53	12	6	0	42	42
1103	30	110	28	13	11	88	98
1104	17	81	20	9	4	65	69
1105	80	354	87	42	22	283	305
1107	770	6350	1424	683	0	5012	5012
1108	5	62	14	6	0	48	48
1109	16	201	44	21	0	153	153
1110	38	300	68	32	0	238	238
1111	250	915	233	112	88	732	820
1112	39	205	49	23	8	164	172
1113	66	154	44	21	32	123	155
1114	30	132	32	16	8	106	114
1115	11	152	33	16	0	115	115
1116	4	135	28	13	0	98	98
1117	156	606	152	73	51	484	536
1118	11	1207	244	117	0	858	858
1119	65	204	54	26	26	163	189

1120	101	1101	240	115	0	846	846
1121	175	422	119	57	83	338	420
1122	120	332	90	43	52	265	318
1123	126	868	199	95	6	695	700
1124	7	61	14	6	0	48	48
1125	-1	5	1	0	0	3	3
1126	11	46	11	5	3	37	40
1133	121	447	114	55	42	358	400
1134	-5	2897	578	278	0	2036	2036
1138	0	0	0	0	0	0	0
1139	-52	1074	204	98	0	719	719
1141	-243	7213	1394	669	0	4907	4907
1142	31	138	34	16	9	111	119
1143	47	386	87	42	0	305	305
1144	719	3735	891	428	148	2988	3136
1146	6	439	89	43	0	313	313
1147	20	72	18	9	7	58	65
1159	-8	307	60	29	0	211	211
1160	98	471	114	55	24	377	401
1161	14	332	69	33	0	243	243
1162	19	197	43	21	0	152	152
1163	293	2015	462	222	13	1612	1625
1164	957	2342	660	317	449	1874	2323
1166	74	555	126	60	0	443	443
1167	4	113	23	11	0	83	83
1168	57	129	37	18	28	103	131
1169	7	105	22	11	0	79	79
1170	13	74	17	8	2	59	61
1171	17	114	26	13	1	91	93
1172	5	162	33	16	0	118	118
1175	-42	184	28	14	0	100	100
1178	3	43	9	4	0	32	32
1181	6	171	36	17	0	125	125
1182	216	1907	425	204	0	1495	1495
1183	-67	166	20	10	0	70	70
1184	-1	64	13	6	0	45	45
1185	-6	98	18	9	0	65	65
1186	46	20	13	6	30	16	46
1188	-23	363	68	33	0	240	240
1190	24	60	17	8	11	48	59

1192	-3	56	11	5	0	38	38
1210	-1	5	1	0	0	3	3
2024 Total	9,898	79,910	17,962	8,622	2,815	60,411	63,225

Table 20: Total VCU Issuance by Vintage Period for Project Crediting Period

Vintage period	Baseline emissions (tCO ₂ e)	Project emissions (tCO ₂ e)	Leakage emissions (tCO ₂ e)	Buffer pool allocation (tCO ₂ e)	Reductions VCUs (tCO ₂ e)	Removals VCUs (tCO ₂ e)	Total VCU issuance (tCO ₂ e)
14-Jul-2020 to 31-Dec-2020	(79)	344	84	40	23	275	298
01-Jan-2021 to 31-Dec-2021	(2,391)	11,951	2,868	1,376	536	9,561	10,097
01-Jan-2022 to 31-Dec-2022	(5,986)	29,242	7,045	3,381	1,407	23,394	24,801
01-Jan-2023 to 29-Sep-2023	(5,609)	39,151	8,952	4,297	190	31,321	31,512
30-Sep-2023 to 31-Dec-2023	(4,343)	31,554	7,179	3,446	1,166	24,106	25,270
01-Jan-2024 to 31-May-2024	(9,898)	79,910	17,962	8,622	2,815	60,411	63,225
Total	(28,306)	192,149	44,089	21,161	6,137	149,067	155,203

Table 21: Total VCU Issuance by Vintage Period for Project Monitoring Period

Vintage period	Baseline emissions (tCO ₂ e)	Project emissions (tCO ₂ e)	Leakage emissions (tCO ₂ e)	Buffer pool allocation (tCO ₂ e)	Reductions VCUs (tCO ₂ e)	Removals VCUs (tCO ₂ e)	Total VCU issuance (tCO ₂ e)
30-Sep-2023 to 31-Dec-2023	(4,343)	31,554	7,179	3,446	1,166	24,106	25,270
01-Jan-2024 to 31-May-2024	(9,898)	79,910	17,962	8,622	2,815	60,411	63,225
Total	(14,241)	111,463	25,141	12,068	3,981	84,517	88,495

Table 22: Comparison of ex-ante emissions reductions/removals and achieved emissions reductions/removals by vintage year for the current monitoring period

Vintage period	Ex-ante estimated reductions/removals	Achieved reductions/removals	Percent difference	Explanation for the difference
30-Sept-2023 to 31-Dec-2023	19,015	28,717	+51%	The estimated and actual project area enrolled differed.
01-Jan-2024 to 31-May-2024	93,757	71,847	-30%	The estimated and actual project area enrolled differed.
Total	112,772	100,564	-12%	The estimated and actual project area enrolled differed.

APPENDIX 1: COMMERCIALLY SENSITIVE INFORMATION

Section	Information	Justification
5.4	FCW VCS Certification Model Kimmeridge Carbon Solutions, L.P. and Chestnut Carbon LLC Proof of Funds	Confidential due to proprietary financial information which may result in damages to company if disclosed. Shall be provided to VVB only.
5.4	NPV Calculations	Confidential due to proprietary financial inputs related to project development costs. Shall be provided to VVB only.
2.1, 3.3	Signed MLAs	These documents contain PAI landowner names and other personal information. Shall be provided to VVB only.
3.3	Past NCX Contracts	Past NCX contracts for landowners that contains personal information. Shall be provided to VVB only.
3.3	Landowner deeds	These documents contain PAI landowner names and other personal information. Shall be provided to VVB only.
2.1	Stakeholder correspondence	These documents contain PAI landowner names and other personal information during stakeholder correspondence with project proponent. Shall be provided to VVB only.

APPENDIX 2: ANNEXES

Annex	Title	Conf.
Annex A	Cohort 2 Soil Maps	
Annex B	PAI Maps	
Annex C	KML (Project areas + Centroids)	
Annex D	Signed MLAs	Yes
Annex E	Overlapping Critical Species Habitat documentation	
Annex F	FCW Conserve Lying Dead by PAI v3 The Fire and Fuels Extension to the Forest Vegetation Simulator: Updated Model Documentation	

	FOREST INVENTORY AND ANALYSIS NATIONAL CORE FIELD GUIDE VOLUME I: FIELD DATA COLLECTION PROCEDURES FOR PHASE 2 PLOTS Version 9.2	
Annex G	Specific Gravity and Other Properties of Wood and Bark for 156 Tree Species Found in North America	
Annex H	Forester Attestations to Baseline Silviculture	
Annex I	Forest Protocol 2015 assessment.area.data.file	
Annex J	Winjum et al 1998	
Annex K	Global Forest Resources Assessment 2020 - Terms and Definitions FRA 2020	
Annex L	2023 Forest Cruiser Training.mp4 2023 Forest Cruiser Training.pptx NephosDigitizationManual	
Annex M	Harmon & Sexton 1996	
Annex N	2006 IPCC Guidelines for National Greenhouse Gas Inventories - Ch4 Forest Land	
Annex O	IPCC, Good Practice Guidance for Land Use, Land-Use Change and Forestry, 2003	
Annex P	U.S. Forest Projects (June 25, 2015) - Volume and Biomass Equations for Forest Offset Projects in All States Except Alaska, California, Oregon, and Washington biomass.equations.ca.or.wa volume.equations.ca.or.wa	
Annex Q	FCW Conserve Harvest Policy, May 2024	
Annex R	FCW Offer Packet Template FCW Conserve Membership Guide FCW Stakeholder Engagement Plan	
Annex S	FCW Conserve NPV for NPRT Cohort 2 <i>Confidential due to proprietary financial inputs related to project development costs</i>	Yes
Annex T	<i>Reserved</i>	
Annex U	FCW VCS Certification Model v3 – MP 2 Kimmeridge Carbon Solutions, L.P. and Chestnut Carbon LLC Proof of Funds	Yes

	Confidential due to proprietary financial information	
Annex V	Non-Permanence Risk Tool Additional Evidence Historical Risk Score Selection Justification and Evidence	
Annex W	FCW Conserve Treelist Workbook	
Annex Y	Management Strata (Modeling Units, Plots, and Boundaries) Shapefile	
Annex Z	Example baseline timber harvest plans	
Annex AA	FVS Files, including Microsoft Access Database of FVS Model Outputs	
Annex AB	FCW Conserve ERR Calculation Spreadsheet	
Annex AC	FCW Conserve Model Results	
Annex AD	FCW Conserve Baseline Wood Products	
Annex AE	Signed NCX Contracts	Yes
Annex AF	List of Recorded Invasive Species by State	
Annex AG	Landowner Deeds	Yes
Annex AH	Forest Stewardship Council US Forest Management Standard	
Annex AI	Stakeholder Correspondence	Yes
Annex AJ	In-Person December 6, 2023, Stakeholder Event Invite	
Annex AK	FSC Gender Equality Guidelines: SDG 05: GENDER EQUALITY	
Annex AL	QAQC Reference v1.0	
Annex AM	US Contributions to 17 Sustainable Development Goals by 2030-2022 Report	
Annex AN	Reserved	
Annex AO	Digital and Physical Copy of Stakeholder Mailers and Postcards	Yes
Annex AP	FCW Conserve - Sample Size (MP 2) Current aboveground live tree carbon stocks and annual net change in forests of conterminous United States	
Annex AR	FSC Audit Supplement Forest Carbon Works FSC Certificate	

Annex AS	PAI Harvest Checks	
Annex AT	FCW Conserve Eligible Forested Land Review	
Annex AU	University of Minnesota Research Statement	
Annex AX	Safety Materials and Anti-Harassment Training	
Annex AW	FCW Conserve Safeguard Risk Identification Report FCW Conserve Safeguard Risk Policy FCW Adaptive Risk Management Plan	
Annex AY	Non-Permanence Risk Tool Export Non-Permanence Risk Tool Notes Export Non-Permanence Risk Tool Attachments Export	
Annex AZ	Uncertainty v0.4 - Project	