A summary of the FSC Group certification administered by the Nova Scotia
Association for Woodland Certification for the year 2022-2023.

Nova Scotia
Association for
woodland
Certification
(NSAWC) FSC®
Program Public
Summary

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Introduction

The following document provides a summary of the FSC Group certification program administered by the Nova Scotia Association for Woodland Certification (NSAWC) in Nova Scotia. The program is a voluntary program available to woodlot owners in Nova Scotia who are interested in managing their woodlots to high standards of environmental and social responsibility. The program has been in place since 2006. The overall program is administered by NSAWC with regional service providers performing extension work and treatment monitoring. The regional managers make up the board of the NSAWC.



These service providers are Cape Breton Privateland Partnership (CBPP); Nova Scotia Landowners and Forest Fibre Producers Association (NSLFFPA) on the Eastern Mainland (Antigonish, Guysborough, Pictou); Federation of Nova Scotia Woodland Owners FNSWO) covering Central NS; and the Western Woodlot Services Coop (WWSC) in Western Nova Scotia.

Management Objectives

Woodlot owner objectives are developed for each woodlot management plan in consultation with the woodlot owner. A summary of the objectives by woodlot is presented below (each woodlot can have multiple objectives). Most woodlot mgmt. plans have approximately 4 primary general objectives.

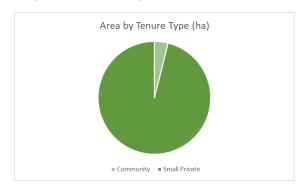


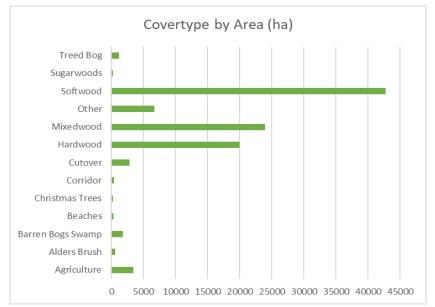
Landbase Description

The program currently contains a total of 54,329 ha of land within the scope of the 813 individual woodlot management plans. The program forest reflects the general forest characteristics of the area – largely softwood dominated, with a significant portion of mixedwood and hardwood forest.

Most of the woodlots in the program are relatively small, with an average size of 67 ha. Most woodlot owners own and manage one woodlot, while a few of our members have several woodlots that they manage.

The program is made up primarily of individual woodlot owners, however there are also Community focused woodlots in the group (Pictou Landing First Nation, Town of New Glasgow, Cape Breton Regional Municipality, the Town of Trenton, and East Bay Area Community Council).

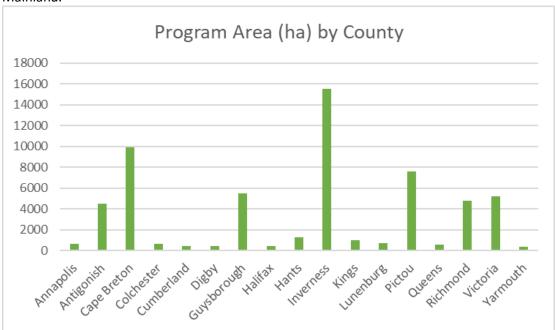






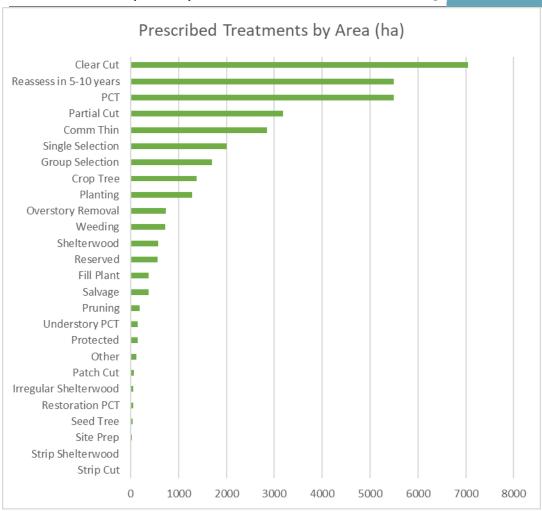
Program Distribution

The certificate has membership representation across the province with the bulk of active membership and treatment activity remaining in the East and Cape Breton especially. This can be attributed to the historical uptake in the East and the only active FSC sales market currently within the FSC chain of custody of the certificate through Port Hawkesbury Paper (PHP) for delivered primary pulpwood. Over 95% of delivered private FSC wood to PHP was sourced on Cape Breton woodlots, with the remainder close by on the Eastern Mainland.



Silviculture Systems

All silviculture prescriptions are based on restoration of the Acadian Forest, and meeting the individual woodlot owner's objective for their forest. Management prescriptions are developed using the provincial Ecological Landscape Classification (ELC) system, and take into account the dominant Natural Disturbance Regime (NDR) for the site. A summary of prescribed treatments within the program is provided below.



Rate of Annual Harvest Rationale

All harvesting treatments have been cruised to determine the expected volume that will be removed, based on:

- a) Volume present today
- b) Operational reductions
- c) Prescribed removal percentage
- d) Expected losses to insect and disease mortality

Since the management plans developed are for a period of 10 years, an average annual removal amount is calculated by dividing the total prescribed removal for the woodlot by 10. The program total prescribed removal amounts are provided below.

| | Softwood m3 | Hardwood m3 |
|----------------------|----------------|----------------|
| Total Prescribed | 075 225 | 247.027 |
| Harvest | 975,225 | 347,027 |
| Annual Allowable Cut | 97,523 | 34,703 |

Monitoring Forest Growth and Dynamics

On a five year interval, NSAWC examines the growth, harvest rates, and standing volume of woodlots that are part of its FSC program. This information is examined in relation to changes over time, as well as compared to woodlots that are not part of the program to determine whether there are any trends that can be found.

Primarily, the provincial permanent sample plot (PSP) information will be used for this information. This is a system of randomly sampled, permanent plots that have been developed throughout the province. This system has been in place since 1965 and is very useful for examining long-term trends in tree growth.

This exercise was last completed in 2016, and no significant difference was found between growth and removal rates within the program compared to provincial averages. Since the program is very new relative to forest growth cycles, this result is not unexpected.

NSAWC is currently in the process of developing a wood supply model capable of calculating sustainable wood supply for all woodlots in the program. When completed this will be used to help ensure harvest levels at the program level are sustainable.

Environmental Assessments and Safeguards

Prior to any field surveys being carried out, provincial surveys of any known species at risk habitat, significant eco-sites and other areas of ecological significance are examined. This information is verified

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during the field assessment, and the local DNR biologists is consulted to assist in the development of any treatment or protection recommendations

NSAWC FSC High Conservation Value Forest Framework Evaluation Summary

In 2018 NSAWC completed an evaluation of the Forest Stewardship Council (FSC) High Conservation Value Forest (HCVF) Framework (FSC-STD-CAN-Maritimes-SLIMF-2008) for applying management strategies and monitoring procedures to enhance or maintain regionally significant ecological values across the scope of the certificate region (Nova Scotia).

Using accessible data inventories of known values for the region, each value (or attribute) is linked to the closest corresponding HCVF framework criterion. Most of these attributes are associated with actual spatial (mapped) information. These attributes are intersected with each new applicant woodlot property boundaries and adjacent lands to identify any HCVF values with which to apply appropriate management strategies and monitor over time. Unmapped values and mapped values requiring additional confirmation of values are explored at the time of field cruise by trained field staff.

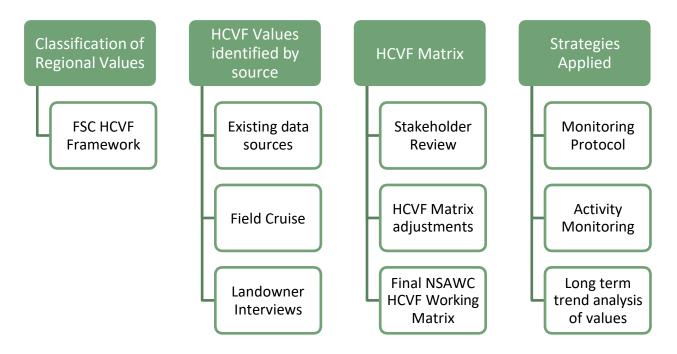
HCVF Framework Evaluation Summary

- Reviewed available data sets which identify potential or actual ecological values.
 - a. Determined which FSC HCVF Framework value and criteria each attribute best fits.
 - b. Assigned HCVF = True to all attributes deemed to be hcvf
 - c. Assigned a strategy and monitoring procedure for each attribute. A 'comment' field is also included which is edited on a case by case basis.
 - d. GIS intersects of all demonstrated data sets are performed on each new applicant woodlot to identify hcvf and other significant ecological values and their associated attributes. Intersect results are linked to hcvf matrix strategies and monitoring procedures. Records are stored in a database for trend analysis, public summary reporting, long term monitoring and trend analysis.
 - Unmapped values are included in the HCVF Matrix as field cruise identification where the value can only be identified and verified through a field cruise (and landowner interviews).
- 2. Reviewed federal and provincial species at risk listings to determine if there are any values not currently identified through existing data inventories.
- 3. Stakeholder review. Evaluation was sent out to those representing authority on subject and / or primary stakeholder interest.
- 4. Training of field staff and management plan developers
- 5. Present evaluation results to membership and include in public summary.

NSAWC HCVF Framework evaluation source data.

| Data Source | Description |
|--------------------------------|--|
| HCVF Matrix Definitions | Definitions for main matrix fields. |
| HCVF Matrix | High Conservation Value Forest Assessment Framework Analysis, NSAWC September 15, 2014. Non -GIS identifiable values are listed here. |
| HCVF GIS Master | Final GIS intersect Table. Summary of all individual GIS matrix tables into one listing. Best place for summary of sigeco, sighab, rlul data sets. |
| <u>Unmapped Habitat Values</u> | Filtered from 'Flora and Fauna Matrix' representing Federal species with COSEWIC status which are not available on existing NSAWC GIS data sets. |
| SigEco Matrix | Significant Ecosites GIS attribute data (DNR download) |
| Souf Matrix | Significant Old or Unique Forests. Based on aerial photo analysis interpreted age class structure. Efficacy largely questioned by DNR staff but found to be effective as a potential flag for an area. |
| SigHab SAR Matrix | Significant Wildlife Habitat GIS attribute data (DNR download) |
| RLUL Matrix | Restricted and Limited Use Land Database. Land that is protected or limited in use for conservation, ecological, resource management or heritage purposes. (DNR download). |
| NS matrix tier1 | Derived from the Matrix Forest Block GeoSpatial Data (Nature Conservancy download) |
| Flora and Fauna Matrix | Provincial and Federal SAR list comparison and sort. Purpose is to compare available GIS data used in NSAWC mgmt plan development system with provincial and federal lists to identify non-mapped, potentially influenced by forestry activities in Eastern Nova Scotia. (Federal SARA and COSEWIC listings) |
| Matrix Forest Full | Matrix Forest Block GeoSpatial Data (Nature Conservancy download) |
| ACCDC Data | |

NSAWC HCVF Framework evaluation workflow.



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Summary of Results

| PotentialValue | Aron | Ctratagu | Comment |
|----------------------------|--------------|--|--|
| Potentialvalue | Area (ha) | Strategy | Comment |
| Areas under the | 109.7 | Contact conservation area land | |
| Special Places Act | | manager to ensure property | |
| | | boundaries are accurate. If only | |
| | | mapped on crown then Requires | |
| | | Buffer for intersect on private (30m) | |
| AS06IH02OH02-16 | | | Late successional wA/sM Floodplain with |
| | | | dynamic structure and old growth stems |
| Beach/dune | | | HCVF, should be proteced |
| Beech forest | 177.9 | Protected or extremely light selection | Disease free (smooth) at the stand level |
| | | to maintain stand condition | (not individual stems) |
| BFL | | | Boreal felt lichen identified on the |
| | | | northern property line on stand 14. |
| Black Ash | | | 1 Threatened Species – 1 Black Ash |
| | | | record near Little MacDonald Pool from |
| | | | the ACCDC data |
| Black Ash | | | Known black ash patch |
| BufferZone200 | | Follow DNR guidelines. | |
| Calcareous forest | 5203.1 | Assessment for machine operability | under represented in the protected areas |
| | | and worker safety | system. Primarily found on privateland. |
| Canadian Heritage River | 1165.0 | Ensure appropriate buffers are established for scheduled harvest | Follow SMZ guidelines |
| Deciduous bog | | | Part of the 'Black River Bog System. It is |
| | | | largely undisturbed and contains the |
| | | | largest treed deciduous bog in Nova |
| | | | Scotia. Recomment protection as HCVF |
| | | | strategy, including 20m buffer or slope |
| | | | banks around the area. |
| Designated Provincial | 125.0 | Contact conservation area land | Notification to property manager ahead |
| Parks and Park | | manager to ensure property | of any activity. |
| Reserve | | boundaries are accurate. If only | |
| | | mapped on crown then Requires | |
| | | Buffer for intersect on private (30m) | |
| Designated Water | 15788.0 | When harvest is scheduled, | |
| Supply Areas | 13700.0 | automatically triggers site inspection. | |
| Eagle Nest | | l | Significant Habitat IN185 (Bald Eagle |
| g | | | nest active from at least 1998, last |
| | | | surveyed 2013) |
| Eastern Habitat Joint | 135.1 | Contact conservation area land | , , |
| Venture Lands | | manager to ensure property | |
| === | | boundaries are accurate. If only | |
| | | mapped on crown then Requires | |
| | | Buffer for intersect on private (30m) | |
| Erosional seabluff | 35.0 | Buffer appropriate to site conditions | Maintain any existing vegetation to |
| | | 33 - FF - F - 1 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 | prevent or prolong erosion |
| First Nations Reserve | 3941.8 | Contact conservation area land | , |
| Lands | | manager to ensure property | |
| | | boundaries are accurate. If only | |
| | | mapped on crown then Requires | |
| | | Buffer for intersect on private (30m) | |
| | 1 | Dajjer jor merseet on private (30111) | 1 |

| | | FSC PROGRAM PUBLIC SUMMA | |
|---|---------|--|--|
| Hemlock floodplain | 763.0 | Protected or extremely light selection to maintain stand condition where appropriate | Floodplains can support particularly rich ecosystems, both in quantity and diversity. Significant for seasonal flooding and erosion control. |
| Hemlock forest | 1113.0 | Reserved with selection mgmt where appropriate | Late successional attributes; not on steep slopes |
| Historically significant site | | | Pioneer cemetary and marker signifying gathering point for first church services by pioneers |
| IFL Class500 - 1000 ha | | Clearcut harvest scheduled for areas > than 10 ha will have a strategy for maintaining interconnectivity of the matrix forest. Prior to any new road construction, a needs assessment is carried out to ensure the road is required and impact is minimized. | |
| Large Intact Forest | 15748.0 | Any clearcut harvest scheduled for areas greater than 10 ha will have a strategy for maintaining interconnectivity of the matrix forest. Prior to any new road construction, a needs assessment is carried out to ensure the road is required and impact is mi | The property falls within a designated Large Intact Forest Zone. This is a landscape level conservation value targeted at maintaining forest connectivity. |
| Late successional tolerant hardwood component within vibrant stream zone. Steep slopes. | | | Stream draw with late successional tolerant hardwood attributes |
| Late Successional tolerant hardwood | | | Advanced late successional sugar maple (TH1) and yellow birch (TH1b) |
| forest Lynx Buffer | 16563.1 | Follow appropriate DNR Guidelines | community on steep slopes Consider SMP relative to total area of buffer zone |
| Lynx Buffer | 5251.1 | Intact travel corridors are retained on harvest clearcut areas >10ha. | Canada lynx (endangered) foraging habitat which cycles with Snowshoe hare populations (primary food source). The lynx roam off highland areas as the hares decline. If no foraging wetlands identified, no additional BMPs recommended |
| Mature hemlock slope | | | Significant concentration of mature hemlock on steep slope. |
| Mid - late successional tolerant hw | | | Patch extends to sw property. Strong tolerant hw composition. |
| migratory bird | | | Must be verified with regional wildlife biologist |
| migratory bird | 1372.0 | | Seasonal restrictions on treatment activity within range of habitat. Confirmation of actual habitat and applicable special management practice must be verified with regional DNR wildlife biologist. |

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| Moose Pellet | 0.3 | Combine pellet sightings records with | 1km radius applied to known pellet and / |
|-------------------------|---------|--|---|
| sightings | | field verification of additional habitat | or actual moose sighting |
| | | features (wet features / mature sw | |
| | | cover) to implement bmp. | |
| National Historic Sites | 112.1 | Contact conservation area land | Adjancey to value identified by appying |
| and Parks | | manager to ensure property | 30m mapping buffer to intersect private |
| | | boundaries are accurate. | woodlot(s). |
| Natural Watershed | 60167.2 | When harvest is scheduled, | |
| Municipal Surface | | automatically triggers site inspection. | |
| Water Su | | | |
| Nature Conservancy | | Identify and maintain protected | |
| of Canada Lands | | status | |
| Nature Conservancy | 52.2 | Identify and maintain protected | Adjancey to value identified by appying |
| of Canada Lands | | status | 30m mapping buffer to intersect private |
| | | | woodlot(s). |
| of concern | | | Bald Eagle noted across the river from |
| | | | the lot. Attn to buffer zones on nest. |
| of concern | | | Classified as hcvf pending confirmation |
| | | | from regional biologist. |
| of concern | | | Not confirmed but likely hcvf attributes |
| | | | for wildlife habitat. Must be verified |
| | | | with regional DNR wildlife biologist for |
| | | | actual species and special management |
| | | | protocol. |
| of concern | | | Potential hcvf. Must be identified and |
| | | | verified through regional DNR wildlife |
| | | | biologist. Value abuts western end of |
| | | | property relating to the adjacent lake. |
| of concern | | | Protect: Terns – Common or Arctic – |
| | | | feed in the area and likely nest here as |
| | | | well. This area should be protected. No |
| | | | harvesting in this area. |
| of concern | 0.0 | Follow appropriate DNR Guidelines | Common Loon on Portage Creek. Nest |
| | | | near mouth of creek |
| of concern | 6.6 | Follow appropriate DNR Guidelines | Northern Goshawk. nest in yellow birch; |
| | | | tree 17m high; nest tree 32cm dbh; nest |
| | | | height 8m; hardwood stand; nest activity |
| | | | in 2015 unknown. Species of Concern |
| of concern | 4420.6 | Follow appropriate DNR Guidelines | Species and Strategy must be verified by |
| | 0.0 | 5.0 | regional DNR Wildlife biologist. |
| of concern | 0.0 | Follow appropriate DNR Guidelines | Wildlife management area. Apply |
| | | | adequate buffers and attention to |
| 011 111 | | | seasonal restrictions |
| Old growth, late | | | Late successional TH8 with old growth yB |
| successional forest | | | and scattered sM stems. Stands 3,4,21 |
| representation | | | 2115 1 11 11 11 |
| other habitat | | | Bald Eagle Nesting Area |
| other habitat | | | We would have to check with local |
| | | | wildlife Biologist to see what significant |
| | | | habitat exists and if there are any special |
| | | | management practices involved. |
| other habitat | 0.0 | Follow appropriate DNR Guidelines | Eagle habitat; See SMP |
| other habitat | 16.8 | Follow appropriate DNR Guidelines | Eagle habitat; See SMPEagle habitat; See |

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| • | , | | |
|-----------------------------------|-------|--|---|
| _ | | | SMP |
| other habitat | 0.1 | Follow appropriate DNR Guidelines | Eagle's Nest. See SMP |
| other habitat | 18.5 | Follow appropriate DNR Guidelines | Seagle's Nest. See SMP |
| other habitat | 0.0 | Follow appropriate DNR Guidelines | Species and Strategy must be verified by |
| | | | regional |
| | | | DNR Wildlife biologist. |
| other habitat | 237.1 | Follow appropriate DNR Guidelines | Species and Strategy must be verified by regional DNR Wildlife biologist. |
| Protected Beaches | 20.1 | | |
| under the Beaches | | | |
| Protecti | | | |
| Provincial Wildlife | | | Adjacent protected Crown lands |
| Management Areas | | | |
| Provincial Wildlife | 13.8 | When harvest is scheduled, contact | Adjancey to value identified by appying |
| Management Areas | | conservation area land manager to | 30m mapping buffer to intersect private |
| | | ensure property boundaries are | woodlot(s). |
| | | accurate. | |
| and and f | | - Brown advisible 1 11 | |
| red oak forest | | Reserved with selection mgmt where | |
| Dad wise famet | | appropriate | |
| Red pine forest | | Reserved with mgmt strategy to | |
| | | move stand along successional | |
| | | pathway, possibly including underplanting with rP. | |
| Red pine forest | 15.6 | Reserved with mgmt strategy to | Natural (not planted) |
| nea pine jorest | 15.0 | move stand along successional | Natural (not planted) |
| | | pathway, possibly including | |
| | | underplanting with rP. | |
| Salt Marsh | | , , | At the edge of a ocean inlt, HCVF should |
| | | | be protected |
| Sensitive, Of Concern | | | Sensitive Species/Species of Conservation |
| | | | Concern = 4 plants, 1 mammal = |
| | | | (Orange-fruited Tinker's Weed, Meadow |
| | | | Horsetail, Canada Wood Nettle, Smooth |
| | | | Sweet Cicely, Long-tailed Shrew) |
| Significant unique / | | | Stand 1 offers unique pure sM mountain |
| rare forest | | | stream draw. |
| Sites of Ecological | 18.7 | Contact conservation area land | |
| Significance / IBP sites | | manager to ensure property | |
| | | boundaries are accurate. If only | |
| | | mapped on crown then Requires | |
| | | Buffer for intersect on private (30m) | |
| sM floodplain | 719.0 | Protected or extremely light selection | Floodplains can support particularly rich |
| | | to maintain stand condition where | ecosystems, both in quantity and |
| | | appropriate | diversity. Significant for seasonal |
| Cmall rC same re :::: | | | flooding and erosion control. |
| Small rS community | | | Mature rS rare in Eastern NS but |
| (seedling - mature / | | | important historical and future |
| overmature) mixed | | | component. Protect rS content, |
| across western ridge and slope | | | managing for seed producing stems (40yrs+) |
| • | ļ | | , , , |
| Souf | | | Stand 1 is extension of mature / all aged |

| | (110711110) | TROGRAM TOBLIC SOMMANT |
|-----------------|-------------|--|
| species at risk | | Actual occurrence unknown. Must be |
| | | verified by regional dnr wildlife biologist |
| species at risk | | Confirmed Wood Turtle brook. |
| species at risk | | Confirmed Wood Turtle habiat buffer |
| | | zone |
| species at risk | | Confirmed Wood Turtle habitat |
| species at risk | | Follow the special management |
| | | practices outlined in NS Wildlife |
| | | guidelines. See copy in the management |
| | | plan. |
| species at risk | | Harvesting should be done between |
| | | November and May. See attached smz |
| | | guidelines |
| species at risk | | Likely Wood Turtle habitat on River |
| | | Inhabitants watershed. Must be verified |
| | | with regional DNR wildlife biologist |
| species at risk | | Likely wood turtle habitat, must be |
| | | verified with local DNR wildlife biologist. |
| species at risk | | Most of the eastern part of the woodlot |
| | | is Deer wintering area. Special |
| | | Management Practices for White-tailed |
| | | Deer Wintering Areas should be |
| | | followed. All waterways emptying into |
| | | River Inhabitants require management |
| | | practices to protect the wood turtle |
| species at risk | | Olive-sided flycatcher sighting point |
| • | | extension of stand 5 riparian |
| species at risk | | Potential or actual species at risk |
| • | | habitat; likely wood turtle habitat. Must |
| | | be verified with regional DNR wildlife |
| | | biologist. |
| species at risk | | Potential or actual wood turtle habitat. |
| | | See attached guidelines |
| species at risk | | Special mgmt considerations around |
| | | identified stream zones. Likely Wood |
| | | Turtle habitat |
| species at risk | | Species at risk Habitat identified and |
| | | confirmed with DNR |
| species at risk | | Species at Risk potential habitat along |
| | | stream zones through stands 3-6. |
| | | Verified with regional biologist and |
| | | attached. |
| species at risk | | Species at risk potential habitat verified |
| | | by DNR. See Appendix 9 for |
| | | confirmation. |
| species at risk | | Stand 12 bird survey results. |
| species at risk | | There is a species at risk identified in the |
| - | | brooks and ponds on the woodlot. |
| species at risk | | This area is considered wood turtle |
| , | | habitat. All area within 200m of the |
| | | stream entering the property from the |
| | | west is considered HCVF. A 20 m buffer |
| | 1 | |

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| _ | | | no harvesting should occur within 200m |
|-----------------------|--------|-----------------------------------|---|
| | | | between March and November |
| | | | |
| species at risk | | | Verified with regional DNR wildlife |
| | | | biologist. See attached correspondence |
| | | | and fact sheet(s). |
| species at risk | | | We contacted the local wildlife Biologist, |
| | | | the species at risk is wood turtle. Special |
| | | | management practices will be put in |
| | | | place to protect their habitat. See |
| | | | information attached to the |
| | | | management plan. |
| species at risk | | | Wood Turtle confirmed on southwest |
| | | | brook. |
| species at risk | | | Wood turtle habitat on River Inhabitants |
| | | | watershed. Special management |
| | | | practices in effect. Stands 10 and 11. |
| species at risk | | | Wood Turtle Habitat on the St Marys |
| | | | River |
| species at risk | | | Wood Turtle habitat. Follow attached |
| | | | guidelines. |
| species at risk | | | Wood turtle potential habitat |
| species at risk | | | Wood turtle, a threatened species, |
| | | | habitat within 200m of all streams. |
| | | | Under DNR guidelines, harvesting |
| | | | activities should only occur here between |
| | | | November and March. |
| species at risk | | | Yellow Lamp Mussel (Lampsilis cariosa), |
| | | | it will be protected by following the usial |
| | | | water course protection |
| Species at Risk | 0.1 | Follow appropriate DNR Guidelines | Bat |
| Species at Risk | 0.0 | Follow appropriate DNR Guidelines | Harlequin Duck |
| species at risk | 9994.8 | Follow appropriate DNR Guidelines | Species and Strategy must be verified by |
| | | | regional DNR Wildlife biologist. |
| Stand 4 represents an | | | Old growth sugar maple stems along |
| old growth stream | | | stream draw. |
| buffer of sM/yB | | | |
| (TH1). | | | |
| TH07BF02IH01-16 | | | Stand 2 and portions of stand 1 have |
| | | | significant older growth sM,yB; |
| | | | Important to preserve legacy stems |
| TH10-16 | | | Late successional attributes |
| Tolerant (hw or sw) | | | Currently mid-late successional |
| late successional | | | community with old growth attribute |
| forest communities | | | potential. Selection mgtm encouraged |
| | | | with great care to maintain or enhance |
| | | | value |
| Tolerant (hw or sw) | | | Comments |
| late successional | | | Large old hemlock. More Sugar maple on |
| mature forest | | | west side. Potential old growth. |
| communities | | | |

| | (110711110) | F3C PROGRAIN PUBLIC 301V | IIVIANT] October 2025 |
|------------------------------|-------------|---|--|
| Tolerant (hw or sw) | | | Late successional forest stand 13 |
| late successional | | | |
| mature forest | | | |
| communities | | | |
| Tolerant (hw or sw) | | | Late successional hw forest |
| late successional | | | |
| mature forest | | | |
| communities | | | |
| Tolerant (hw or sw) | | | Late successional tolerant hardwood |
| late successional | | | forest found through stands 2, 8, 12, 16, |
| mature forest | | | 21, 24 |
| communities | | | , |
| Tolerant (hw or sw) | | | Old growth TH1a in stand 2, Old growth |
| late successional | | | hemlock in parts of stands 7,15,9 |
| mature forest | | | , |
| communities | | | |
| Tolerant (hw or sw) | | | Potential late successional (old growth) |
| late successional | | | value |
| mature forest | | | |
| communities | | | |
| Tolerant (hw or sw) | | | Potential old growth stands 12 and 14 |
| late successional | | | rotential ola growth stands 12 and 14 |
| mature forest | | | |
| communities | | | |
| Tolerant (hw or sw) | | | Small hemlock grove at the top of the |
| late successional | | | slope; Significant size stems; all ages |
| mature forest | | | siope, significant size stems, an ages |
| communities | | | |
| Tolerant (hw or sw) | | | Stand 25 identified as late successional |
| late successional | | | forest. |
| mature forest | | | Jorest. |
| communities | | | |
| Tolerant (hw or sw) | | | Stand 12. Old growth wp and he on top |
| late successional | | | of ridge. |
| mature forest | | | oj riuge. |
| communities | | | |
| Tolerant (hw or sw) | | | Stand 5 is tolerant hardwood potential |
| late successional | | | old growth. |
| mature forest | | | old growth. |
| - | | | |
| communities | | | Stand & Dotontial old arouth |
| Tolerant (hw or sw) | | | Stand 6 Potential old growth |
| late successional | | | |
| mature forest communities | | | |
| | | | Stand 1 has a year of a said |
| Vernal pond | | Assuranciata buff i | Stand 1 has a vernal pond |
| Vernal pond | | Appropriate buffer in event of operations | |
| Vernal pond | | Appropriate buffer in event of operations | Vernal ponds or ephemeral pools, are temporary pools of water that provide habitat for distinctive plants and animals. |

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| Vernal pond | Appropriate buffer in event of operations | Vernal pools are small, shallow wetlands that lack permanent inlet or outlet streams and often dry out in the summer. They provide critical breeding habitat for frogs, salamanders, insects and fairy shrimp, and feeding and |
|--|--|--|
| Vulnerable / | | drinking sites for birds, mammal Tributary stream within system identified |
| Endangered and / or Species at risk habitat | | as potential habitat for species at risk (Atlantic Salmon, Wood Turtle) |
| White spruce dune | | HCVF, should be protected, along the beach on Janvrins Harbour-Chedabucto Bay. |
| Wilderness Area | Contact conservation area land manager to ensure property boundaries are accurate. | Adjancey to value identified by appying 30m mapping buffer to intersect private woodlot(s). |

Monitoring

The NSAWC implements active and forest treatment monitoring assessments to observe and ensure best forest management practices, health and safety practices and adherence to applicable regulations. Landowners are required to inform the group managers upon planned activity in order to schedule on-site monitoring assessments. Scheduling permitting, site visits are arranged for as many commercial harvesting operations as possible, with on-site inspections performed, including health and safety inspections when workers are on-site.

Each individual assessment is catalogued and tracked in the system database for identification of CARs, observations and a summary of the group totals. When workers are found on-site, health and safety inspections are also performed and tracked in the system database.

Frequency of occurrences are tracked to identify potential common deficiencies or infractions at any level for future education and prevention.

Monitoring results for 2022/2023 are presented in the tables below. Almost 1700 items were checked in total during this time period, with an overall harvest and silviculture compliance rate of 99% upon first inspection and 7 of 7 non-conformances remediated within the allotted time, not including 1 site where remediation is scheduled as of this writing.

| Row Labels | - C | ount of Status | |
|--------------------------|-----|----------------|------|
| ■ FSCInternal | | | |
| Acceptable | | | 144 |
| NotApplicable | | | 113 |
| Observation | | | 4 |
| FSCInternal Total | | | 261 |
| ■ Harvest | | | |
| Acceptable | | | 680 |
| NCRAddressed | | | 6 |
| NonConformand | e | | 1 |
| NotApplicable | | | 154 |
| Observation | | | 7 |
| Harvest Total | | | 848 |
| ■ Silviculture | | | |
| Acceptable | | | 256 |
| NCRAddressed | | | 1 |
| NotApplicable | | | 315 |
| Observation | | | 2 |
| Silviculture Total | | | 574 |
| Grand Total | | | 1683 |

Harvest Monitoring

| | | Non- Conformance | Non- | Not | | |
|--|------------|---------------------|-------------|------------|-------------|--------------------|
| Row Labels | Acceptable | Addressed | Conformance | Applicable | Observation | Grand Total |
| -3worker-dnr-regs- | 14 | | | 1 | | 15 |
| -Back-up-alarm- | 15 | | | | | 15 |
| -Boundaries-as-per-plan- | 16 | | | | 2 | 18 |
| -Brakes- | 15 | | | | | 15 |
| -Complaints-addressed- | 1 | | | 17 | | 18 |
| -Culverts-ok- | 15 | | | 3 | | 18 |
| -Escape-hatch- | 15 | | | | | 15 |
| -Fall-protection- | 15 | | | | | 15 |
| -First-aid-kit- | 15 | | | | | 15 |
| -First-aid-training- | 15 | | | | | 15 |
| -FSC Representative-Informed- | 18 | | | | | 18 |
| Fuel Hose and tank Properly secured | 15 | | | 3 | | 18 |
| Fuel hose ok | 15 | | | 3 | | 18 |
| | 15 | | | 3 | | |
| Fueling Station not near watercouse | | | | 3 | | 18 |
| -Fuel-oil-approved-containers- | 10 | | | | | 10 |
| -Garbage-removed- | 17 | 2 | | 1 | | 18 |
| -Hardhats- | 12 | 3 | | 1.0 | | 15 |
| -HCVF-Strategy-effective- | 2 | | | 16 | | 18 |
| -Housekeeping- | 17 | | | 1 | | 18 |
| -Machine-guards- | 15 | | | _ | | 15 |
| -Merch-wood-utilized- | 16 | | | 2 | | 18 |
| -Neighbors-informed- | 18 | | | | | 18 |
| -No-oil-spills- | 18 | | | | | 18 |
| Operator Aware of FSC status | 16 | | | 2 | | 18 |
| -Previous-CARs-addressed- | 3 | | | 15 | | 18 |
| -Protected-areas-not-disturbed- | 4 | | | 14 | | 18 |
| Pump nozzle ok | 15 | | | 3 | | 18 |
| -Raptor-Nests-not-disturbed- | 3 | | | 15 | | 18 |
| -Rec-trails-ok- | 13 | | | 5 | | 18 |
| -Remote-location-plan- | 13 | 2 | | | | 15 |
| -Residual-trees-not-damaged- | 17 | | | 1 | | 18 |
| -Riparian-zones-meet minimum standa | 15 | | | 3 | | 18 |
| -Roads-ok- | 18 | | | | | 18 |
| -Rollover-requirements- | 15 | | | | | 15 |
| Rutting < 40cm avg over 40m | 13 | 1 | 1 | | 2 | 17 |
| -Safe-piling- | 14 | | | | | 14 |
| -Safe-working-distance- | 15 | | | | | 15 |
| -Safe-work-technique- | 15 | | | | | 15 |
| -Shovels- | 13 | | | 2 | | 15 |
| -Species-at-risk-checked- | 9 | | | 9 | | 18 |
| Spill kit | 11 | | | 3 | | 14 |
| -Spill-Kit- | 13 | | | | | 13 |
| -Stand-prescriptions-followed- | 16 | | | | 2 | 18 |
| -Steps-and-hand-holds- | 15 | | | | | 15 |
| TDG Sticker clear and legible | 15 | | | 3 | | 18 |
| -Temp-stream-xings-ok- | 4 | | | 13 | 1 | 18 |
| -Water-quality-maintained-No siltation | | | | 2 | - | 18 |
| WCB Status ok | 17 | | | 1 | | 18 |
| WHMIS Sticker clear and legible | 15 | | | 3 | | 18 |
| Wildlife Clumps meet minimum standa | | | | 2 | | 18 |
| -Working-alone-procedure- | 7 | | | 8 | | 15 |
| | | | 4 | | 7 | |
| Harvest Total | 680 | 6 | 1 | 154 | / | 848 |

Silviculture Monitoring

| | | Non- Conformance | Non- | Not | | Grand |
|--|------------|---------------------|-------------|------------|-------------|---------|
| Row Labels | Acceptable | Addressed | Conformance | Applicable | Observation | Total |
| -3worker-dnr-regs | 6 | | | 9 | | 15 |
| -Ansul-pack- | 2 | | | 11 | | 13 |
| -Appropriate-trainin | 13 | | | | | 13 |
| -Back-up-alarm- | | | | 2 | | 2 |
| -Blade-guard- | 2 | | | 11 | | 13 |
| -Boundaries-as-per- | 16 | | | | | 16 |
| -Brakes- | | | | 2 | | 2 |
| -Chain-catcher- | | | | 13 | | 13 |
| -Chainsaw-pants- | 2 | | | 11 | | 13 |
| -CSA-Boots- | 6 | | | 7 | | 13 |
| -Escape-hatch- | | | | 2 | | 2 |
| -Eye-protection- | 4 | | | 9 | | 13 |
| -Fall-protection- | | | | 3 | | 3 |
| -Felling-procedures- | 2 | | | 11 | | 13 |
| -First-aid-kit- | 8 | | | 7 | | 15 |
| -First-aid-training- | 15 | | | , | | 15 |
| -FSC Representative | 16 | | | | | 16 |
| -Fuel-oil-approved-c | 3 | | | 11 | | 14 |
| -Garbage-removed- | 15 | | | 1 | | 16 |
| -Hardhats- | 6 | | | 9 | | 15 |
| -HCVF-Strategy-effe | 1 | | | 15 | | 16 |
| | 4 | | | 9 | | 13 |
| -Hearing-protection -Housekeeping- | 11 | | | 5 | | 16 |
| | 1 | | | 2 | | |
| -Machine-guards- -Natural-species-sel | 10 | | | 6 | | 3 16 |
| · | 11 | | | 4 | | 15 |
| Operator Aware of F | 5 | | | 8 | | 13 |
| -Pressure-bandage- | 5 | | | | | |
| -Protected-areas-no | | | | 11 | | 16 |
| -Raptor-Nests-not-d | 3 5 | | | 13 | | 16 |
| -Rec-trails-ok- | | | | 11 | | 16 |
| -Remote-location-pl | 8 | | | 7 | | 15 |
| -Residual-trees-not- | 8 | | | 8 | | 16 |
| -Rollover-requireme | nts- | | | 2 | | 2 |
| -Safe-piling- | | | | 2 | | 2 |
| -Safety-chain- | | | | 13 | | 13 |
| -Safety-harness-latc | 2 | | | 11 | | 13 |
| -Safe-working-distar | 5 | | | 10 | | 15 |
| -Safe-work-techniqu | 7 | | | 7 | 1 | 15 |
| -Shovels- | 5 | _ | | 10 | | 15 |
| -Silv-guidelines-follo | 13 | 1 | | 1 | 1 | 16 |
| -Spark-arrestor- | | | | 13 | | 13 |
| -Spill-Kit- | 1 | | | 1 | | 2 |
| -Stand-prescriptions | 16 | | | | | 16 |
| -Steps-and-hand-hol | | | | 2 | | 2 |
| -Throttle-lock-out- | 1 | | | 12 | | 13 |
| WCB Status ok | 14 | | | 2 | | 16 |
| -Working-alone-pro | 4 | | | 11 | | 15 |
| Silviculture Total | 256 | 1 | | 315 | 2 | 574 |

Monitoring Trends Analysis

A trend on the uptick is rutting prevention. Great measures were taken by regional staff and great contractors to minimize or greatly avoid rutting on member properties. In cases where rutting exceeded the standard, it was isolated to the main landing or main haul trail. Lots of great examples of brush matting were evident. Remediation was implemented in multiple cases and is scheduled in the 1 remaining case. With a very high compliance rate, it is worth noting the common items which

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are found to be in non-conformance, even though minor. Hard hats were not in place in 3 cases when the operator exited the machine. These were easily remedied and a safety review is scheduled for each contractor in advance of next member job. The remote location plan was absent in 2 cases but was quickly provided.

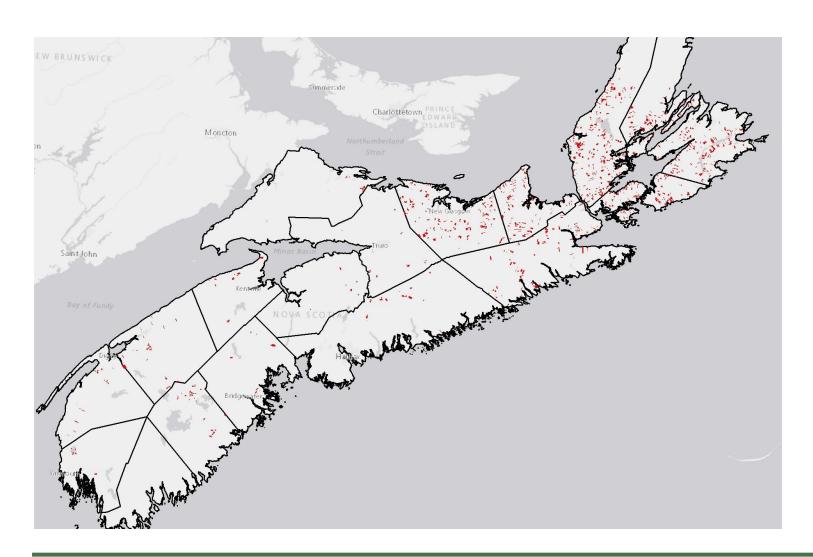
Internal Monitoring Program

An internal audit was carried out of the program in 2023. Internal audit items may be selected by the certificate holder (NSAWC) to reflect relevant topics or areas of concern. Over the 5 year certificate cycle, all principles and criteria will be reviewed, alternating each year. Of the total membership of 813 FMUs, 18 woodlots were sampled. Minimal activity had occurred on the sampled FMUs, the woodlots being more or less idle over the past year. No significant findings were observed; although in 3 cases, landowners required a review of the FSC program, indicating a continued need for regular outreach to members. Of perhaps greatest value, follow-up consulting was initiated in 11 cases regarding management questions. This is expected to generate some moderate activity. Most landowners contacted were quite happy with the program to date. Some recommendations for future value included carbon offset project opportunities for private woodlot owners and market access facilitation, where to sell wood products.

Internal monitoring results summary for 2023.

| | | Non- Conformance | Non- | Not | | |
|-------------------------------------|------------|---------------------|-------------|------------|-------------|--------------------|
| Row Labels | Acceptable | Addressed | Conformance | Applicable | Observation | Grand Total |
| FSCInternal | | | | | | |
| Activity follows management | | | | _ | | |
| plan | 13 | | | 2 | | 15 |
| Activity Matches | 14 | | | 1 | | 15 |
| documentation | 14 | | | | | 15 |
| Activity meets fsc | 8 | | | 7 | | 15 |
| requirements | | | | • | | |
| Activity on woodlot | 7 | | | 11 | | 18 |
| Activity Reported | 8 | | | 10 | | 18 |
| HCVF Identified | 7 | | | 11 | | 18 |
| HCVF Stratefy Followed | | | | 4 | | 4 |
| HCVF Strategy Effective | 7 | | | 11 | | 18 |
| HCVF Strategy Followed | 6 | | | 8 | | 14 |
| Landowner aware of FSC requirements | 12 | | | 3 | 3 | 18 |
| Management Plan Available | | | | | | |
| and up to date | 18 | | | | | 18 |
| Management plan signed | 18 | | | | | 18 |
| NCR Issued | | | | 18 | | 18 |
| Other Followup Required | 5 | | | 13 | | 18 |
| Recommended | | | | | | |
| Improvements | 7 | | | 11 | | 18 |
| Satisfaction with program | 14 | | | 3 | 1 | 18 |
| FSCInternal Total | 144 | | | 113 | 4 | 261 |

NSAWC FSC® Woodlots, October 2023



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