



# Canadian National Vegetation Classification (CNVC) Classification nationale de la végétation du Canada (CNVC)

<http://cnvc-cnvc.ca>

Forest / Forêt

Association CNVC00296

***Picea mariana* – *Abies balsamea* / *Alnus incana***

**Black Spruce – Balsam Fir / Speckled Alder**

**Épinette noire – Sapin baumier / Aulne rugueux**

**Subassociations:** none

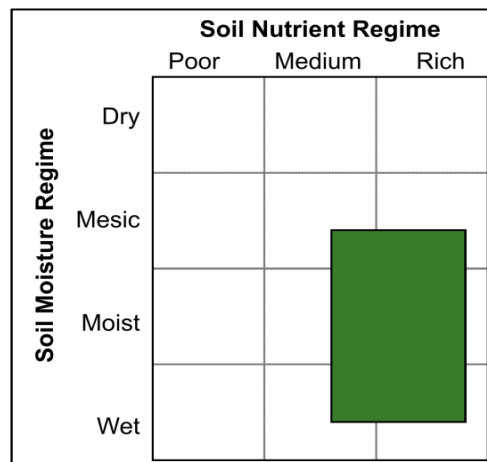
**CNVC Alliance:** CA00018 *Betula papyrifera* – *Abies balsamea* / *Alnus incana*

**CNVC Group:** CG0008 Ontario-Quebec Boreal Moist Black Spruce – Trembling Aspen – Balsam Fir – Paper Birch Forest

## Type Description

**Concept:** CNVC00296 is a boreal coniferous forest Association that occurs in Ontario and Quebec. The canopy is usually moderately closed, comprising roughly equal proportions of black spruce (*Picea mariana*) and balsam fir (*Abies balsamea*). The dense shrub layer has abundant speckled alder (*Alnus incana*), with lower abundance of regenerating balsam fir and black spruce as well as the shrub species red raspberry (*Rubus idaeus*), common Labrador tea (*Rhododendron groenlandicum*), velvet-leaved blueberry (*Vaccinium myrtilloides*) and willows (*Salix* spp.). The herb layer is moderately developed and typically includes bunchberry (*Cornus canadensis*), twinflower (*Linnaea borealis*), wild lily-of-the-valley (*Maianthemum canadense*), northern starflower (*Lysimachia borealis*), yellow clintonia (*Clintonia borealis*), goldthread (*Coptis trifolia*), creeping snowberry (*Gaultheria hispidula*), dwarf raspberry (*Rubus pubescens*), sedges (*Carex* spp.) and violets (*Viola* spp.). The moss layer is moderately developed; red-stemmed feathermoss (*Pleurozium schreberi*) is dominant, but knight's plume moss (*Ptilium crista-castrensis*) and broom mosses (*Dicranum* spp.) are also present, sometimes with discontinuous patches of peat mosses (*Sphagnum* spp.). CNVC00296 occurs in a region with a continental boreal climate that grades from subhumid in the western portion of its range to humid in the east. It is usually found on moist, nutrient-medium to rich sites. It is a late seral condition with dynamics driven mainly by fire, outbreaks of spruce budworm (*Choristoneura fumiferana*) and windthrow. Although black spruce and balsam fir are present in every stand, climate and disturbance type and history affect the relative dominance of each species.

**Vegetation:** CNVC00296 is a coniferous forest Association with a moderately closed canopy codominated by *Picea mariana* and *Abies balsamea*. The dense shrub layer is dominated by thickets of *Alnus incana* (see Comments) interspersed with regenerating *A. balsamea* and *P. mariana*. Less abundant shrubs include *Rubus idaeus*, *Rhododendron groenlandicum*, *Vaccinium myrtilloides* and *Salix* spp. The herb layer is moderately developed and typically includes *Cornus canadensis*, *Linnaea borealis*, *Maianthemum canadense*, *Lysimachia borealis*, *Clintonia borealis*, *Coptis trifolia*, *Gaultheria hispidula*, *Rubus pubescens*, *Carex* spp. and *Viola* spp. The moderately developed moss layer consists mainly of *Pleurozium schreberi*, with lower cover of *Ptilium crista-castrensis*, *Dicranum* spp. and patches of *Sphagnum* mosses.





***Picea mariana* – *Abies balsamea* / *Alnus incana* CNVC00296**

**Type Description (cont'd)**

**Environment:** CNVC00296 occurs in a continental boreal climate that is subhumid in the western part of its range, becoming increasingly humid farther east. It is found on mesic, moist or wet (usually moist), nutrient-medium to rich sites. Stands are often on level sites where organic materials sometimes exceed 40cm over fine-textured glaciolacustrine or lacustrine mineral soils, especially in the Clay Belt of northeastern Ontario and western Quebec. Less frequently, stands occur on gentle morainal slopes on water-receiving, middle to lower or toe-slope topopositions, where sites typically have coarse-textured soils. The higher nutrient status of these sites is maintained by cation-rich mineral substrates (e.g., clays) or from nutrient-rich seepage or groundwater fluctuation. Even in the subhumid climate of the western part of the range, these soils retain enough moisture to support *Alnus incana*, a shrub that fixes nitrogen, further enriching the soil nutrient status. Mor humus forms are common, but compared to other boreal Associations, moders are relatively frequent. Peatymors develop on wetter sites.

Within the range of CNVC00296 regional fire cycles are intermediate (100-270 years), long (270-500 years) or even very long (>500 years). However, these stands often occur where there are natural fire breaks (e.g., water bodies) and are less prone to fire because of their moisture status and thick organic layer. Where the regional fire cycle is intermediate, stands are less likely to burn than the surrounding landscape. Fire cycle length influences the relative dominance of *Picea mariana* and *Abies balsamea* in each stand. Longer fire cycles favour the late seral species *A. balsamea*.

**Dynamics:** CNVC0296 is a late seral condition with dynamics mainly driven by fire and outbreaks of spruce budworm (*Choristoneura fumiferana*) and windthrow. It can succeed a *Picea mariana* Association such as CNVC00295 [*Picea mariana* / *Alnus incana* / *Pleurozium schreber*] that forms after fire.

*Picea mariana* and *Abies balsamea* both have thin bark and are unlikely to survive fire, but *P. mariana* has cones that open when heated to release seeds while *A. balsamea* cones are destroyed. Consequently, *P. mariana* typically forms the initial post-fire cohort while *A. balsamea* becomes established in the stand later when seeds are disseminated from nearby areas. As *A. balsamea* grows into the canopy over time, the CNVC00296 condition is formed. Compared to *P. mariana*, *A. balsamea* is more vulnerable to spruce budworm, so outbreaks of this insect favour *P. mariana*. Proportions of these tree species are thus affected by the disturbance type, history, frequency and severity.

*Alnus incana* can form dense thickets in canopy openings, particularly after harvesting when tree removal can contribute to a rise in the water table. These thickets can significantly delay the growth of regenerating trees. The deep roots of *A. incana* can survive even high-severity fires and it can respond quickly after disturbance by sprouting. Being semi-shade tolerant, *A. incana* persists even as the canopy closes, limiting available light for plants beneath it.

**Range:** CNVC00296 occurs in the boreal region of Ontario and Quebec. It ranges from northwestern Ontario to the Upper North Shore of the Gulf of Saint Lawrence near Sept-Îles, Quebec and also occurs in the Gaspé region. It is most common on the Clay Belt of northeastern Ontario and western Quebec.

**Conservation Status (NatureServe)**

**Global Conservation Rank:** no applicable rank

**National Conservation Rank:** not yet determined

**Subnational Conservation Rank:** not yet determined



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## Distribution

**Countries:** Canada

**Provinces / Territories / States:** Ontario, Quebec

**Terrestrial Ecozones and Ecoregions of Canada:** Atlantic Highlands: Appalachians, Northern New Brunswick Uplands; Boreal Shield: Abitibi Plains, Central Laurentians, Lac Seul Upland, Lake Nipigon, Rivière Rupert Plateau, Southern Laurentians, Thunder Bay-Quetico

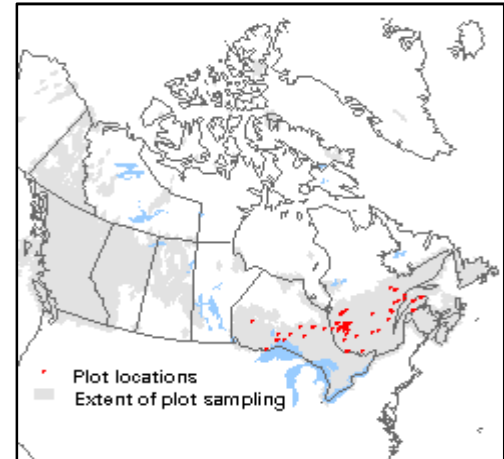
**Rowe's Forest Regions and Sections of Canada:** Boreal: Central Plateau, Chibougamau-Natashquan, Gaspé, Gouin, Laurentide-Onatchiway, Missinaibi-Cabonga, Northern Clay, Northern Coniferous, Superior; Great Lakes-St. Lawrence: Algonquin-Pontiac, Laurentian, Middle Ottawa, Quetico, Saguenay, Temiscouata-Restigouche

**NAAEC CEC Ecoregions of North America (Levels I & II):** Northern Forests: Atlantic Highlands, Mixed Wood Shield, Softwood Shield

**Nature Conservancy of Canada Ecoregions:** Boreal Shield, Great Lakes, Northern Appalachians-Acadia, Superior Mixed Forest

**Ecological Land Classification of Ontario (ecoregions and ecodistricts):** 1E-2, 2E-2, 2E-4, 2W-1, 2W-2, 2W-3, 3E-1, 3E-2, 3E-4, 3E-5, 3E-6, 3E-7, 3S-1, 3S-2, 3S-3, 3S-4, 3S-5, 3W-1, 3W-2, 3W-3, 3W-4, 3W-5, 4S-1, 4S-2, 4S-3, 4S-4, 4S-5, 4S-6, 4W-1, 4W-2, 5S-2

**Bioclimatic Domains and Subdomains of Québec:** 2 Ouest, 3 Ouest, 4 Est, 4 Ouest, 5 Est, 5 Ouest, 6 Est, 6 Ouest



## Corresponding Types and Associations

CNVC00296	Ontario	BwTr12-5	<i>Picea mariana</i> - <i>Abies balsamea</i> / <i>Alnus incana</i> / <i>Rubus pubescens</i> / <i>Pleurozium schreberi</i>
	Quebec	QC015	<i>Picea mariana</i> - <i>Abies balsamea</i> / <i>Alnus incana</i>



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### Vegetation Summary\*

Species Name <sup>†</sup>	Association CNVC00296 56 plots	
	% Cover <sup>‡</sup>	% Presence <sup>^</sup>
<b>Overstory Trees</b>		
<i>Picea mariana</i>	22	100
<i>Abies balsamea</i>	23	98
<i>Betula papyrifera</i>	7	43
<i>Populus tremuloides</i>	9	27
<i>Picea glauca</i>	13	21
<b>Tree Stratum Cover (P<sub>10</sub> P<sub>25</sub> Mean P<sub>75</sub> P<sub>90</sub>)<sup>‡</sup></b>	<b>(32 36 57 76 88)</b>	
<b>Understory Woody Shrubs and Regenerating Trees</b>		
<i>Alnus incana</i>	39	100
<i>Abies balsamea</i>	13	96
<i>Picea mariana</i>	5	89
<i>Rubus idaeus</i>	5	64
<i>Rhododendron groenlandicum</i>	5	63
<i>Vaccinium myrtilloides</i>	3	63
<i>Salix</i> sp.	9	61
<i>Amelanchier</i> sp.	5	59
<i>Vaccinium angustifolium</i>	3	54
<i>Betula papyrifera</i>	5	52
<i>Ribes glandulosum</i>	4	52
<i>Sorbus americana</i>	3	39
<i>Ribes triste</i>	3	39
<i>Kalmia angustifolia</i>	4	32
<i>Viburnum edule</i>	2	32
<i>Sorbus decora</i>	2	30
<i>Cornus stolonifera</i>	4	27
<i>Rosa acicularis</i>	2	27
<i>Sambucus racemosa</i>	3	25
<i>Diervilla lonicera</i>	8	23
<i>Acer spicatum</i>	7	23
<i>Populus tremuloides</i>	3	23
<i>Ribes lacustre</i>	2	21
<b>Shrub Stratum Cover (P<sub>10</sub> P<sub>25</sub> Mean P<sub>75</sub> P<sub>90</sub>)<sup>‡</sup></b>	<b>(32 49 67 94 99)</b>	
<b>Understory Herbs and Dwarf Shrubs</b>		
<i>Cornus canadensis</i>	7	91
<i>Linnaea borealis</i>	3	77
<i>Maianthemum canadense</i>	3	75
<i>Lysimachia borealis</i>	2	75
<i>Clintonia borealis</i>	3	73
<i>Coptis trifolia</i>	2	73



***Picea mariana* – *Abies balsamea* / *Alnus incana* CNVC00296**

**Vegetation Summary (cont'd)\***

Species Name <sup>†</sup>	Association CNVC00296	
	% Cover <sup>‡</sup>	% Presence <sup>^</sup>
<i>Gaultheria hispidula</i>	3	71
<i>Rubus pubescens</i>	5	68
<i>Carex</i> sp.	6	63
<i>Viola</i> sp.	3	61
<i>Lycopodium annotinum</i>	9	57
Poaceae	6	57
<i>Dryopteris spinulosa</i> complex	4	50
<i>Aralia nudicaulis</i>	3	50
<i>Gymnocarpium dryopteris</i>	2	43
<i>Equisetum</i> sp.	3	36
<i>Equisetum sylvaticum</i>	3	36
<i>Petasites frigidus</i>	3	36
<i>Mitella nuda</i>	2	36
<i>Eurybia macrophylla</i>	8	30
<i>Galium</i> sp.	3	30
<i>Athyrium filix-femina</i>	2	23
<i>Maianthemum trifolium</i>	2	21
<b>Herb Stratum Cover (P<sub>10</sub> P<sub>25</sub> Mean P<sub>75</sub> P<sub>90</sub>)<sup>‡</sup></b>	<b>(16 18 36 50 70)</b>	
<b>Bryophytes and Lichens</b>		
<i>Pleurozium schreberi</i>	20	98
<i>Ptilium crista-castrensis</i>	6	73
<i>Dicranum</i> sp.	3	66
<i>Sphagnum</i> sp.	8	57
<i>Polytrichum</i> sp.	3	55
<i>Cladonia</i> sp.	3	54
<i>Hylocomium splendens</i>	7	50
<i>Cladina rangiferina</i>	2	43
<i>Sphagnum girgensohnii</i>	6	27
<i>Cladina mitis</i>	2	27
<i>Mnium</i> sp.	4	25
<i>Sphagnum magellanicum</i>	3	21
<b>Bryo-Lichen Stratum Cover (P<sub>10</sub> P<sub>25</sub> Mean P<sub>75</sub> P<sub>90</sub>)<sup>‡</sup></b>	<b>(5 16 42 70 90)</b>	

\* species present in > 20% of sample plots are listed

<sup>†</sup> see **Botanical Nomenclature** link at <http://cnvc-cnvc.ca> for botanical sources, synonyms and common names

<sup>‡</sup> average percent cover of a species within the plots in which it occurs (i.e., characteristic cover)

<sup>^</sup> percent frequency occurrence for a species within the total plots

<sup>‡</sup> P<sub>x</sub> = X<sup>th</sup> percentile (e.g., P<sub>10</sub> = 10<sup>th</sup> percentile)



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## Site / Soil Characteristics

Association  
CNVC00296

56 plots

### Elevation Range (min–mean–max meters)

100–308–610  
missing data (2)

### Slope Gradient (% frequency)

moderately steep (4)  
moderate (7)  
gentle (20)  
**level (64)**  
missing data (5)

### Aspect (% frequency)

north (5)  
east (9)  
south (13)  
west (16)  
**level (57)**

### Meso Toposition (% frequency)

crest / upper (5)  
mid (16)  
lower / toe (13)  
depression (9)  
**level (57)**

### Moisture Regime (% frequency)

dry (2)  
mesic (20)  
**moist (50)**  
wet (29)

### Nutrient Regime (% frequency)

missing data (100)



***Picea mariana* – *Abies balsamea* / *Alnus incana* CNVC00296**

**Site / Soil Characteristics (cont'd)**

Association  
CNVC00296

**Soil Parent Material (% frequency)**

colluvium (4)  
moraine / till (25)  
lacustrine (9)  
**glaciolacustrine (41)**  
marine (2)  
organic (20)

**Soil Rooting Zone Substrate (% frequency)**

non-soil (4)  
coarse loamy (7)  
fine loamy (2)  
clayey (18)  
organic (20)  
missing data (50)

**Root Restricting Depth (% frequency)**

0 – 20 cm (4)  
**21 – 99 cm (55)**  
≥ 100 cm (13)  
missing data (29)

**Humus Form (% frequency)**

**mor (50)**  
moder (16)  
peatymor (34)





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### Additional Characteristics

Species of High Conservation Concern:

Non-native Species:

Management Issues:

### Type Statistics

Internal Similarity:

Confidence:

Strength:

### Related Concepts

#### Similar CNVC Associations:

CNVC00217 [*Picea mariana* – *Abies balsamea* / *Rhododendron groenlandicum* / *Pleurozium schreberi*] occurs on mesic, nutrient-medium sites in the same range and lacks a tall shrub layer of *Alnus incana*.

CNVC00277 [*Picea mariana* – *Abies balsamea* / *Pleurozium schreberi* – *Sphagnum* spp.] occurs in Quebec on sites that are moist but not as rich. It lacks a tall shrub layer of *Alnus incana* and has greater *Sphagnum* moss cover.

CNVC00295 [*Picea mariana* / *Alnus incana* / *Pleurozium schreberi*] occurs on comparable sites in the same range but does not have *Abies balsamea* codominant in the canopy (see Dynamics).

CNVC00297 [*Abies balsamea* / *Alnus incana*] occurs on comparable sites in the same range but has a canopy with little to no *Picea mariana*.

CNV00351 [*Picea mariana* – *Abies balsamea* / *Pleurozium schreberi* (*Hylocomium splendens*)] occurs on mesic, nutrient-medium sites in Quebec and lacks a tall shrub layer of *Alnus incana*.

#### Related United States National Vegetation Classification Associations:

#### Relationships with Other Classifications:

### Comments

*Alnus incana* here refers to ssp. *rugosa* (speckled alder).





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## *Picea mariana* – *Abies balsamea* / *Alnus incana* CNVC00296

### Source Information

Number of source plots for CNVC00296: 56

#### Information Sources:

McMurray, S.C., Johnson, J.A., Zhou, K., Uhlig, P.W.C. 2015. Ontario ecological land classification program - Ecological Data Repository (EDR). Ont. Min. Nat. Resour. & For., Sci. & Info. Branch, Sault Ste. Marie, ON.

Ministère des Ressources naturelles, de la Faune et des Parcs, Forêt Québec. 2003. Base de données des points d'observation écologique (version 2003). Gouv. du Qué., Min. des Res. nat., de la Faune et des Parcs, Forêt Qué., Dir. des inv. for., QC.

**Concept Authors:** K. Baldwin, K. Chapman, M. Major, C. Morneau, P. Uhlig, M. Wester

**Description Authors:** K. Chapman and K. Baldwin

**Date of Concept:** December, 2013

**Date of Description:** December, 2016

### Classification References:

Bergeron, J-F.; Grondin, P.; Blouin, J. 1999. Rapport de classification écologique du sous-domaine bioclimatique de la pessière à mousses de l'ouest. Min. des Res. nat. du Qué., Dir. des inv. for., Sainte-Foy, QC.

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Uhlig, P.W.C., Chapman, K., Baldwin, K., Wester, M., Yanni, S. 2016. Draft boreal treed vegetation type factsheets. Ecol. Land Class. Prog., Ont. Min. Nat. Resour. & For., Sci. & Info Branch, Sault Ste. Marie, ON.

### Characterization References:

Baskerville, G.L. 1975. Spruce budworm: super silviculturist. For. Chron. 51(4):138-140.

Bell, F.W. 1991. Critical silvics of conifer crop species and selected competitive vegetation in northwestern Ontario. For. Can., Ontario Region, Sault Ste. Marie, Ont. and NW Ont. Tech. Dev. Unit, Min. Nat. Resour., Thunder Bay, ON. COFRDA Rep. 3310.

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Boulanger, Y.; Gauthier, S.; Burton, P.J. 2014. A refinement of models projecting future Canadian fire regimes using homogeneous fire regime zones. Can. J. For. Res. 44(4):365-376.

Bridge, S.R.J. 2001. Spatial and temporal variations in the fire cycle across Ontario. OMNR, Northeast Sci. Tech., South Porcupine, ON. NEST TR-043.

Fryer, J.L. 2014. *Picea mariana*. In: Fire Effects Information System. U.S. Dept. Agric., For. Serv., Rocky Mt. Res. Stn., Fire Sci. Lab., Missoula, MT, US. Available: <http://www.fs.fed.us/database/feis/plants/tree/picmar/all.html> (accessed: May 26, 2015).

Gauthier, S.; Raulier, F.; Robitaille, A.; Chabot, M.; Duval, J.; Lord, D. 2013. Vulnérabilité face au risque de feu: description du critère et de l'indicateur, justification des seuils, méthode retenue et résultats détaillés. Chapitre 4 dans Rapport du Comité scientifique chargé d'examiner la limite nordique des forêts attribuables. Min. des Res. nat. du Qué., Sect. des for., QC.

Greene, D.F.; Zasada, J.C.; Sirois, L.; Kneeshaw, D.; Morin, H.; Charron, I.; Simard, M.J. 1999. A review of the regeneration dynamics of North American boreal forest tree species. Can. J. For. Res. 29:824-839.

Jobidon, R. 1995. Autécologie de quelques espèces de compétition d'importance pour la régénération forestière au Québec. Revue de littérature. Min. des Res. nat., Dir. de la rech. for., QC. Mémoire de recherche forestière n° 117.



***Picea mariana* – *Abies balsamea* / *Alnus incana* CNVC00296**

**Characterization References (cont'd):**

Kenkel, N.C.; Walker, D.J.; Watson, P.R.; Caners, R.T.; Lastra, R.A. 1997. Vegetation dynamics in boreal forest ecosystems. *Coenoses* 12(2-3):97-108.

Kneeshaw, D.D.; Bergeron, Y. 1998. Canopy gap characteristics and tree replacement in the southeastern boreal forest. *Ecology* 79(3):783-794.

McCarthy, J. 2001. Gap dynamics of forest trees: a review with particular attention to boreal forests. *Environ. Rev.* 9(1):1-59.

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The information contained in this factsheet is based on data and expert knowledge that is current to the date of description. As new information becomes available, the factsheet will be updated.

For more information about the contents of this factsheet and definitions of attribute names and data classes, see the **Understanding the Factsheet** link at <http://cnvc-cnvc.ca>.

**Suggested Citation:** K. Chapman and K. Baldwin. *Picea mariana* – *Abies balsamea* / *Alnus incana* [online]. Sault Ste. Marie, Ontario, Canada: Canadian National Vegetation Classification. December, 2016; generated May-09-2017; cited ENTER DATE ACCESSED. 10 p. Canadian National Vegetation Classification Association: CNVC00296. Available from <http://cnvc-cnvc.ca>. System Requirements: Adobe Acrobat Reader v. 7.0 or higher. ISSN 1916-3266.