

List of NB Tree Species & their future potential

Information on this list was compiled from the February 2018 report “Climate Change Resilience in the Acadian Forest: A Review”, by Megan de Graaf, MScF, Forest Ecologist, Community Forests International

ADVANCING FORESTRY ADAPTATION CAPACITY IN NEW BRUNSWICK

Warmer and wetter conditions, along with increased disturbance events are the kind of climate change related effects expected to be more common in New Brunswick in the coming decades. Milder winters and warmer springs could also increase vulnerability to Balsam Woolly Adelgid and Spruce Budworm outbreaks.

The table below compiles information prepared for a review of literature by Community Forests International (CFI) in February 2018; specifically from Table 4 on page 11, and Table 5 on page 15. The CFI report compares the climate change resiliency projections from three research projects for tree species to the year 2100. It summarizes the projected effects from climate change on 36 tree species in the Acadian Forest Region.

A copy of the full version of the CFI report is available on the CFI (<https://forestsinternational.org/>) website.

“Note, this estimate (*) likely underestimates the effects of beech bark disease in the region and (**) likely underestimates the overall abundance of sugar maple.”, CFI report.

NOTE: tree species highlighted in green are “likely to exhibit moderate to high climate change resilience in the long-term (2011-2100)”.

Native Tree Species			Comparison of Resiliency Projections by Project			Conclusion
English	Scientific (Latin) name	Français	FBR	Taylor et al.	Bourque & Hassan	
American Basswood	<i>Tilia americana</i>	tilleul d'Amérique	Decline	-	-	
American Beech	<i>Fagus grandifolia</i>	hêtre d'Amérique	Prosper	Increase*	-	
American Mountain Ash	<i>Sorbus americana</i>	sorbier d'Amérique	Persevere	-	-	
Balsam Fir	<i>Abies balsamea</i>	sapin baumier	Decline	Decrease	Decline	Decline
Balsam Poplar	<i>Populus balsamifera</i>	peuplier baumier	Persevere	-	-	
Black Ash	<i>Fraxinus nigra</i>	frêne noir	Decline	-	-	
Black Cherry	<i>Prunus serotina</i>	cerisier tardif	Prosper	-	-	
Black Spruce	<i>Picea mariana</i>	épinette noire	Decline	Decrease	-	Decline?
Black Willow	<i>Salix nigra</i>	saule	Decline	-	-	
Bur Oak	<i>Quercus macrocarpa</i>	chêne à gros fruits	Persevere	-	-	
Butternut	<i>Juglans cinerea</i>	noyer cendré	Persevere	-	-	
Eastern Hemlock	<i>Tsuga canadensis</i>	pruche de l'Est	Persevere	Unclear	Persevere	Persevere
Eastern Larch	<i>Larix laricina</i>	mélèze	Persevere	Decrease	-	Unclear
Eastern White Cedar	<i>Thuja occidentalis</i>	cèdre blanc de l'Est	Persevere	Unclear	Decline	Isolated patches?
Grey Birch	<i>Betula populifolia</i>	bouleau gris	Decline	-	-	
Ironwood	<i>Ostrya virginiana</i>	ostroyer de Virginie	Proliferate	-	-	
Jack Pine	<i>Pinus banksiana</i>	pin gris	Disappear	Decrease	-	Decline?
Large Toothed Aspen	<i>Populus granidentata</i>	tremble à grandes dents	Decline	-	-	
Mountain Maple	<i>Acer spicatum</i>	érable à épis	Persevere	-	-	
Mountain Paper Birch	<i>Betula cordifolia</i>	bouleau à papier	Prosper	-	-	
Pin Cherry	<i>Prunus pensylvanica</i>	cerisier de Pennsylvanie	Persevere	-	-	
Red Maple	<i>Acer rubrum</i>	érable rouge	Proliferate	Increase	Proliferate	Proliferate
Red Oak	<i>Quercus rubra</i>	chêne rouge	Prosper	Increase	Proliferate	Proliferate
Red Pine	<i>Pinus resinosa</i>	pin rouge	Persevere	Decrease	Decline	Decline
Red Spruce	<i>Picea rubens</i>	épinette rouge	Decline	Decrease	Persevere	Isolated patches?
Serviceberry	<i>Amelanchier canadensis</i>	amelanchier	Persevere	-	-	
Silver Maple	<i>Acer saccharinum</i>	érable argenté	Persevere	-	-	
Striped Maple	<i>Acer pensylvanicum</i>	érable rayé	Persevere	-	-	
Sugar Maple	<i>Acer saccharum</i>	érable à sucre	Persevere	Decrease**	Persevere	Persevere
Trembling Aspen	<i>Populus tremuloides</i>	tremble tremblotant	Persevere	Decrease	-	Unclear
White Ash	<i>Fraxinus americana</i>	frêne blanc	Persevere	Increase	Proliferate	Prosper
White Birch	<i>Betula papyrifera</i>	bouleau blanc	Decline	Decrease	Decline	Decline
White Elm	<i>Ulmus americana</i>	orme blanc	Prosper	-	-	
White Pine	<i>Pinus strobus</i>	pin blanc	Prosper	Increase	Prosper	Prosper
White Spruce	<i>Picea glauca</i>	épinette blanche	Decline	Decrease	Decline	Decline
Yellow Birch	<i>Betula allenghaniensis</i>	merisier	Decline	Unclear	Persevere	Isolated patches?