

## SP9

### Red oak – White pine / Teaberry

*Quercus rubra* – *Pinus strobus* / *Gaultheria procumbens*

n=11



Round Lake,  
Queens County

**Concept:** This early to late successional mixedwood Vegetation Type (VT) has abundant white pine and red oak, a significant component of shade-intolerant hardwoods and a well-developed woody shrub layer. Red oak – White pine / Teaberry usually follows stand-replacing disturbances such as fire, windthrow or harvesting.

**Vegetation:** White pine and red oak are the dominant overstory trees along with red maple, white birch and both aspen species. White pine may also occur in a super canopy position – residual survivors from past disturbance events. The shrub layer is primarily ericaceous species such as velvet-leaf blueberry, lowbush blueberry and lambkill along with regenerating white pine, red oak, black spruce and red maple. Other woody shrubs may include serviceberry, witch-hazel and wild raisin. The herb layer includes many species associated with dry, poor sites such as teaberry, bracken, mayflower, cow-wheat, princes'-pine, poverty grass and round-leaved pyrola. The bryophyte layer is poorly developed.

#### Ecological Features

This closed-canopy, small- to large-patch forest occurs on sites underlain by dry, nutrient poor, coarse soils derived from granites and quartzites. The longevity of the dominant tree species supports development opportunities for old growth forests, depending on

the interval between stand initiating disturbances. Red oak is a valuable mast tree for wildlife species including squirrels, bear, ruffed grouse and deer. This tree has intermediate shade tolerance and will occur in both the understory and overstory. Regeneration of red oak is

difficult; however young trees sprout vigorously following understory fire, providing a competitive advantage where this gap disturbance occurs. Oak is the preferred host of maitake, or hen-of-the-woods, a prized edible mushroom.

## Characteristic Plants

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	Freq. (%)	Cover (%)
White pine	100	24.3
Red oak	100	24.0
Red maple	90	7.9
White birch	70	6.6
Large-tooth aspen	40	12.0
Black spruce	40	4.3
Beech	20	24.5
Balsam fir	20	6.0
Trembling aspen	10	5.0
Hemlock	10	4.0
White spruce	10	4.0
Hybrid spruce	10	2.0
Tamarack	10	2.0
<b>Tree Layer (Mean % Cover)</b>		<b>74</b>
Red oak	90	6.0
Velvet-leaf blueberry	80	13.6
Red maple	80	2.5
White pine	80	1.5
Lambkill	70	6.0
Black spruce	70	4.9
Wild raisin	70	0.8
Balsam fir	60	5.2
Witch-hazel	50	3.6
Serviceberry	50	0.1
Lowbush blueberry	40	5.0
Beech	40	4.3
Huckleberry	30	2.8
Large-tooth aspen	30	0.5
Striped maple	30	0.1
<b>Shrub Layer (Mean % Cover)</b>		<b>39</b>
Teaberry	90	4.3
Bracken	80	8.2
Bunchberry	80	4.8
Wild lily-of-the-valley	80	1.2
Mayflower	80	1.1
Starflower	80	0.1
Sarsaparilla	70	1.8
Partridge-berry	70	1.7
Pink lady's slipper	50	0.3
Indian cucumber root	40	0.1
Indian pipe	40	0.1
Rice grass	30	0.3
Round-leaved pyrola	30	0.2
Wood aster	30	0.2
Cow-wheat	30	0.1
Painted trillium	30	0.1
Princes'-pine	30	0.1
Rock polypody	30	0.1
<b>Herb Layer (Mean % Cover)</b>		<b>20</b>
Hypnum moss	90	7.5
Broom moss	90	1.3
Schreber's moss	80	2.0
Grey reindeer lichen	40	0.8
Wavy dicranum	40	0.6
Stair-step moss	40	0.5
Cup lichens	40	0.1
Bazzania	30	3.8
Pin cushion moss	30	0.3
<b>Bryo-Lichen Layer (Mean % Cover)</b>		<b>12</b>

## Distinguishing Features

White pine and red oak are diagnostic of this hardwood-dominated mixedwood. Red maple, white birch and/or aspen are a significant component.

The shrub and herb layer is indicative of poor and dry to fresh conditions.

Round-leaved pyrola, princes'-pine, mayflower and teaberry are all good indicator species for this vegetation type.



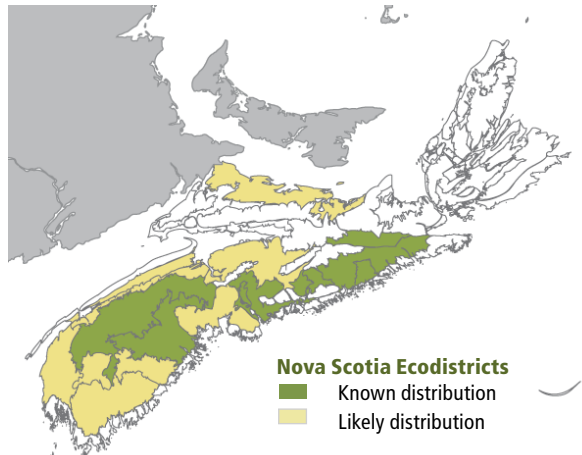
*Princes'-pine*

## Site Characteristics

Slope Position:	Upper <sup>6</sup> Middle <sup>3</sup> Crest <sup>1</sup>
Surface Stoniness:	(Moderately) <sup>6</sup> (Very - Excessively) <sup>3</sup> (Non - Slightly) <sup>1</sup>
Bedrock Outcrop:	(Non-rocky) <sup>9</sup> (Slightly - Moderately) <sup>1</sup>
Elevation Range:	61 - 201m
Slope Gradient:	Gentle <sup>5</sup> Steep <sup>2</sup> Level <sup>1</sup> Moderate <sup>1</sup> nd <sup>1</sup>
Aspect:	North <sup>2</sup> East <sup>2</sup> South <sup>2</sup> West <sup>3</sup> None <sup>1</sup>
Exposure:	Moderate <sup>7</sup> Mod. exposed <sup>3</sup>
Microtopography:	Level <sup>4</sup> Slightly <sup>4</sup> Moderately <sup>2</sup>
Drainage:	Well <sup>7</sup> Rapid <sup>3</sup>

## Soil Characteristics

Soil Type:	ST2 <sup>8</sup> ST2-G <sup>1</sup> ST5 <sup>1</sup>
Parent Material:	Glacial till <sup>9</sup> Till/Bedrock <sup>1</sup>
Rooting Depth (cm):	(30-45) <sup>3</sup> (>45) <sup>4</sup> nd <sup>3</sup>
Duff Thickness (cm):	(0-5) <sup>3</sup> (6-10) <sup>3</sup> (11-20) <sup>3</sup> nd <sup>1</sup>



**Nova Scotia Ecodistricts**  
 ■ Known distribution  
 ■ Likely distribution