

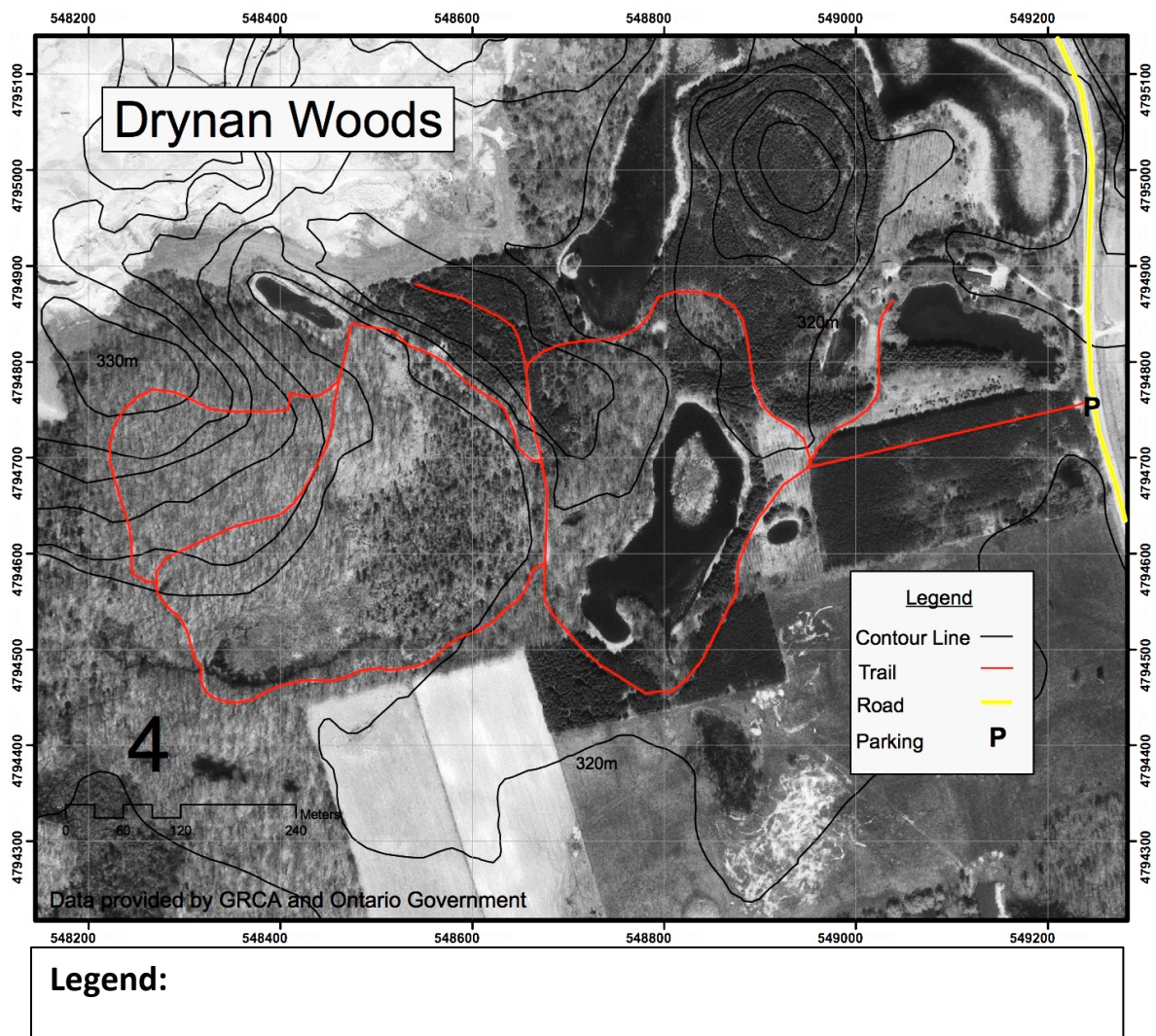
Terrestrial Ecology – Land Classification



Our activity today is to classify the forest according to a standardized protocol established by the Ontario Ministry of Natural Resources (OMNR).

We will hike through a nearby forest (Hungry Hills ESPA) known to have a mix of mature and immature forest. We will stop a few times and record some information at each spot.

1. Air Photo Interpretation:



- Circle the habitats that appear different.
- Create a Legend where you identify the types of habitats to the best of your ability.
- Mark on your map the two locations we will visit today as A and B.
 - Northing: 479 _____ Easting: 54 _____
 - Northing: 479 _____ Easting: 54 _____

Site 1: _____

Date: _____

A. Surveyer(s): _____ Pace factor (m)

- 1) _____
 2) _____
 3) _____
 4) _____

Wrigley
Corners



B. Description: (Check all that apply)

Topographic Feature:

- Bottomland ☐
 Upland ☐
 Tableland ☐
 Valley Slope ☐
 Bluff ☐
 Beach ☐

Plant Form:

- Deciduous ☐
 Coniferous ☐
 Mixed ☐

Soil:

- Texture
 Moisture (%)
 Organics (cm)

Community:

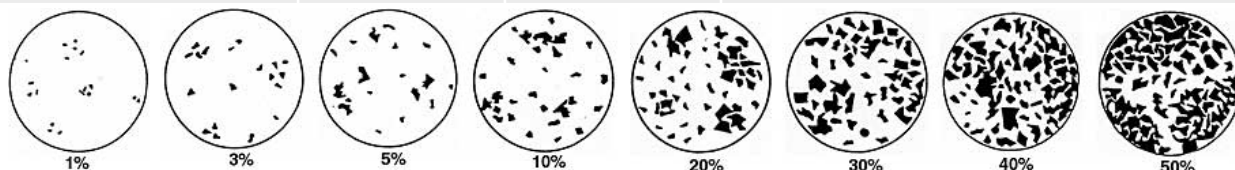
- Barren ☐
 Meadow ☐
 Prairie ☐
 Thicket ☐
 Savannah ☐
 Woodland ☐
 Forest ☐
 Plantation ☐

Habitat:

- Vernal Pools ☐
 Hibernaculum ☐
 Snags ☐
 Fall Logs ☐

C. Stand:

Layer	Height(m)	% Cover*	Species
Canopy			
Sub-canopy			
Understory			
Ground Cover			



* If greater than 50% simply mark >50%

D. Basal Area (BA) – Use Angle Gauge and count ‘in’ trees

BAF =

Tally:

Total

E. Point-Quarter

Give distance (m) and diameter (cm)

Draw a circle in each quarter for the nearest tree, in the circle record the tree’s diameter. With an arrow indicate how far away the tree is from centre.

F. Notes:

(Summarize the story)

Site 2: _____

Date: _____

A. Surveyer(s): _____ Pace factor (m)

- 1) _____
- 2) _____
- 3) _____
- 4) _____

Wrigley
Corners



B. Description: (Check all that apply)

Topographic Feature:

- Bottomland ☐
- Upland ☐
- Tableland ☐
- Valley Slope ☐
- Bluff ☐
- Beach ☐

Plant Form:

- Deciduous ☐
- Coniferous ☐
- Mixed ☐

Soil:

- Texture
- Moisture (%)
- Organics (cm)

Community:

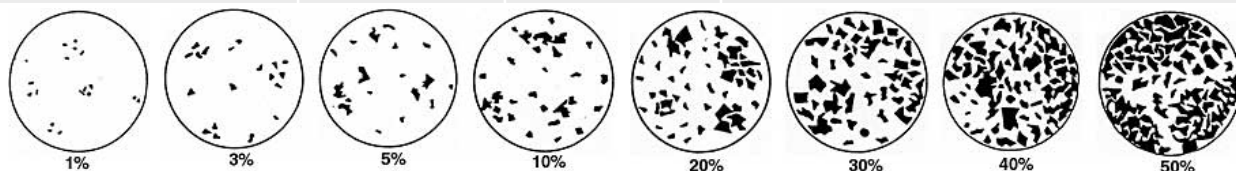
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- Meadow ☐
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Habitat:

- Vernal Pools ☐
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- Snags ☐
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Total

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Draw a circle in each quarter for the nearest tree, in the circle record the tree’s diameter. With an arrow indicate how far away the tree is from centre.

F. Notes:

(Summarize the story)

Management/Disturbance

Disturbance/Extent	0	1	2	3	Score (intensity x extent)
Time Since Logging	>30 years	15-30 years	5-15 years	0-5 years	
Intensity of Logging	None	Fuel Wood	Selective	Diameter Limit	
Extent of Logging	None	Local	Widespread	Extensive	
Sugar Bush Operation	None	Light	Moderate	Heavy	
Extent of Operation	None	Local	Widespread	Extensive	
Gaps in Forest Canopy	None	Small	Intermediate	Large	
Extent of Gaps	None	Local	Widespread	Extensive	
Livestock (Grazing)	None	Light	Moderate	Heavy	
Extent of Grazing	None	Local	Widespread	Extensive	
Alien Species	None	Occasional	Abundant	Dominant	
Extent of Alien Species	None	Local	Widespread	Extensive	
Plantation	None	Occasional	Abundant	Dominant	
Extent of Plantation	None	Local	Widespread	Extensive	
Tracks and Trails	None	Faint Tracks	Well Marked	Tracks OR	
Extent of Tracks	None	Local	Widespread	Extensive	
Dumping (Trash)	None	Light	Moderate	Heavy	
Extent of Dumping	None	Local	Widespread	Extensive	
Earth Displacement	None	Light	Moderate	Heavy	
Extent of Displacement	None	Local	Widespread	Extensive	
Recreational Use	None	Light	Moderate	Heavy	
Extent of Recreational Use	None	Local	Widespread	Extensive	
Noise	None	Light	Moderate	Heavy	
Extent of Noise	None	Local	Widespread	Extensive	
Disease/Death of Trees	None	Light	Moderate	Heavy	
Extent of Disease/Death	None	Local	Widespread	Extensive	
Wind Throw (downed trees)	None	Light	Moderate	Heavy	
Extent	None	Local	Widespread	Extensive	
Browse (Deer)	None	Light	Moderate	Heavy	
Extent of Browse	None	Local	Widespread	Extensive	
Beaver Activity	None	Light	Moderate	Heavy	
Extent of Beaver	None	Local	Widespread	Extensive	
Flooding	None	Light	Moderate	Heavy	
Extent of Flooding	None	Local	Widespread	Extensive	
Fire Damage	None	Light	Moderate	Heavy	
Extent of Fire	None	Local	Widespread	Extensive	
Ice Damage	None	Light	Moderate	Heavy	
Extent of Ice	None	Local	Widespread	Extensive	
Other	None	Light	Moderate	Heavy	