

AWARE Quarterly Progress Report Project ID: Question 9 Core Site: Newfoundland core site Title: What hydrologic indicators can be derived from a LiDAR-based DEM to support land classification schemes relevant for forest management		Institution: Nipissing University Project Supervisor: Dr. Jeff Dech HQP Name: Ayla Brombach	
		Committee Members <ul style="list-style-type: none"> <input type="checkbox"/> Murray Woods <input type="checkbox"/> Dr. April James 	
Report Period Year: 2019 <input type="checkbox"/> Q1 <input type="checkbox"/> Q2 <input type="checkbox"/> Q3 <input checked="" type="checkbox"/> Q4 Apr- Jul- Oct- Jan- Jun Sep Dec Mar		Number of Courses Left to Complete 0 courses , 12 credits (Thesis) left.	
Research Progress During this Reporting Period <ul style="list-style-type: none"> • Worked on SDA analysis and interpolation of soil moisture regime • Completed a SDA sensitivity analysis and worked to calibrate model based on both the Damman Guide Moisture Regime and the Gravimetric Soil Moisture of each plot • Completed study looking at the different interpolation methods available • Looked for and identified any correlations within the data moisture and soil data • Compared the impact of using different depression masks on the model • Ran the SDA and Kriging based depth to water interpolation on all 194 plots • Identified plots with potential interpolation errors 			
Presentations Done None			
Papers Submitted None			
Annual General Meetings AGM1 <ul style="list-style-type: none"> <input type="checkbox"/> Attended <input type="checkbox"/> Reported results 		AGM2 <ul style="list-style-type: none"> <input type="checkbox"/> Attended <input type="checkbox"/> Reported results 	
		AGM3 <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Attended <input checked="" type="checkbox"/> Reported results 	
Research Targets for next Reporting Period <ul style="list-style-type: none"> • Complete site-based wood attribute modeling • Complete DNR Imagery and LiDAR comparison phase of project • Present research at CSRS 2019 • Write up thesis and defend 			
HQP Signature: <i>Ayla Brombach</i> Date: April 12th, 2019		Project Supervisor Signature: Date:	