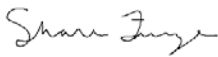


AWARE Quarterly Progress Report Project ID: Q10 Core Site: Black Brook, NB Title: How can LiDAR-derived terrain indices be combined with structural and climate data to derive new productivity / site classification schemes?		Institution: UNB PI: Paul A. Arp HQP Name: Shane Furze
		Committee Members <input type="checkbox"/> See Progress Report Year: _____ Q____ <input type="checkbox"/> Names: _____
Report Period Year: 2018/19 <input checked="" type="checkbox"/> Q1 <input type="checkbox"/> Q2 <input type="checkbox"/> Q3 <input type="checkbox"/> Q4	Number of Courses to Complete	
Research Progress during this Reporting Period <ol style="list-style-type: none"> 1. Developed continuous data sets for climate, surficial geology and topography for use in DSM. 2. Conducted statistical relationships comparing soil forming factors to spatial database of soil pedons across N.B. 3. Predicted soil properties of drainage sand, silt, clay, coarse fragments, organic matter, and bulk density spatially at 10m resolution for N.B. 4. Finalized publication on developing aspatial database for developing pedotransfer functions 5. Finalized publication on developing pedotransfer functions and testing performance with published functions. 6. Submitted first draft of PhD thesis. 		
Presentations January – April, 2018 N/A		
Papers Submitted: Furze, S. and Arp, P. 2018. Amalgamation and Harmonization of Soil Survey Reports into a Multi-Purpose Database: An Example. <i>Open Journal of Soil Science</i> (submitted). Furze, S. and Arp, P. 2018. From Ancillary Soil Surveys to Pedotransfer Function Development and Performance Assessment. <i>Open Journal of Soil Science</i> (submitted).		
Annual General Meetings AGM1 <input checked="" type="checkbox"/> Attended <input checked="" type="checkbox"/> Reported results	AGM2 <input checked="" type="checkbox"/> Attended <input checked="" type="checkbox"/> Reported results	AGM3 <input type="checkbox"/> Attended <input type="checkbox"/> Reported results
Research Targets for next Reporting Period <ol style="list-style-type: none"> 1. Compare LiDAR-derived forest metrics to newly-generated soil attribute maps and updated topographic, geologic, and climatic data sets 2. Use results from (1) as measure of productivity. 		
HQP Signature: Date: May 8 th , 2018 	PI Signature: Date: May 8 th , 2018 