

RESEARCH PROJECTS COMPLETED 2014-2015

Program “Wood Products”

Project Title	Team	Objectives	Collaborators	Deliverables
Bio-coloration industrial process	<ul style="list-style-type: none"> Manon Gignac 	<ul style="list-style-type: none"> Provide the industry with a new bioprocess for removing undesirable colours from wood Promote attractive and standard new colours and textures 	<ul style="list-style-type: none"> Natural Resources Canada 	<ul style="list-style-type: none"> Catalogue of products and colours (available upon request) Box of samples (available upon request) Report on UV reactions (not public)
Log colouring	<ul style="list-style-type: none"> Manon Gignac 	<ul style="list-style-type: none"> Accurately estimate the value of logs; Increase yields and productivity and improve production planning; Minimize the work involved in determining diagnostic assessments (Forest / Storage / Drying); Minimize claims. 	<ul style="list-style-type: none"> Department of Forests, Wildlife and Parks (MFFP) 	<ul style="list-style-type: none"> Report : Detection of logs susceptible of developing colorations (in French only)
Sensors for hardwood dryers	<ul style="list-style-type: none"> Carl Tremblay 	<ul style="list-style-type: none"> Adapt and test sensors for hardwood dryers; Assess residual constraints objectively; Stop the operations of dryers using accurate indicators; Reduce negative impacts during secondary processing and losses of raw material; Increase productivity and improve product quality; Optimize the drying process. 	<ul style="list-style-type: none"> Natural Resources Canada 	<ul style="list-style-type: none"> Report: Study on the potential of using internal stress sensors for drying conditioning (in French only)

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Program “Forest Operations”

Project Title	Team	Objectives	Collaborators	Deliverables
Improved value recovery of hardwood loges through improved bucking practices.	<ul style="list-style-type: none"> Jean McDonald* Peter Hamilton* Steve D’eon Brad Sutherland 	<ul style="list-style-type: none"> Improve the performance of persons responsible for the primary breakdown of hardwood stems into logs Introduce log makers to the HW Buck computer tool and teach them how it works 	<ul style="list-style-type: none"> Canadian Wood Fibre Centre (Natural Resources Canada) University of Moncton, Edmundston Campus Northern Hardwoods Research Institute. 	<ul style="list-style-type: none"> Training workshops on maximizing hardwood log value through better bucking practices (Trois-Rivières, North Bay, Huntsville, Barry Bay)
Development of multi-processing methods	<ul style="list-style-type: none"> Jean-Martin Lussier * Philippe Meek 	<ul style="list-style-type: none"> Develop an operational method for processing heterogeneous stands using an irregular shelterwood system 	<ul style="list-style-type: none"> Coopérative forestière des Hautes-Laurentides 	<ul style="list-style-type: none"> Scientific article: Journal of Forestry 112(3): 287–295 (In English only)
Performance of four hardwood stand management methods in New Brunswick	<ul style="list-style-type: none"> Philippe Meek* Jean-Martin Lussier * Éric Labelle 	<ul style="list-style-type: none"> Determine the benefits of using a silvicultural map prepared with LiDAR data for the purposes of introducing multi-processing 	<ul style="list-style-type: none"> Acadian Timber Northern Hardwood Research Institute JD Irving 	<ul style="list-style-type: none"> Presentation given at the NHRI symposium in Edmundston, NB , May 1, 2014 (In French only)
Irregular shelterwood cutting tests in mixed forests	<ul style="list-style-type: none"> Philippe Meek* Jean-Philippe Gaudreau 	<ul style="list-style-type: none"> Estimate the effects of treatments; Assess the productivity of equipment and costs of harvesters for two types of partial cutting; Assess the value of the basket of products 	<ul style="list-style-type: none"> Coopérative de Gestion forestière des Appalaches Department of Forests, Wildlife and Parks 	<ul style="list-style-type: none"> Report: “Testing of partial cuttings in heterogeneous forests mixed with the multi-treatment approach” (In French only)
Irregular shelterwood cutting in hardwood forests: Implementation of the 1-2-3 method	<ul style="list-style-type: none"> Philippe Meek 	<ul style="list-style-type: none"> Implement irregular shelterwood cutting in hardwood forests using the 1-2-3 method 	<ul style="list-style-type: none"> Coopérative des Haute-Laurentides Department of Forests, Wildlife and Parks Natural Resources Canada 	<ul style="list-style-type: none"> Report: “Implementation of an irregular shelterwood cutting project using the 1-2-3 method” (In French only)

* Project Agent.