

## FFR DATABASE OF HARVESTING TECHNOLOGY WATCH

FFR Report No.	Year	Document Title	Author(s)
<b>Public Access</b>			
HTW-001	September 2008	New Logging Technology, The BESTEN, Hitman for Processor Heads, Advances in Exoskeleton Technology, Using LIDAR to Count Logs	K Raymond
HTW-002	July 2009	Hybrid Trucks for Forestry, Synthetic Ropes, "Walking" Excavator/Harvester, Armchair Mining, Real-time Inventory, CRC for Forestry Australia.	D Amishev
HTW-003	October 2009	2009 COFE: Council on Forest Engineering	D Amishev
HTW-004	February 2010	New Logging Technology	D Amishev
HTW-005	July 2010	HTW 005 Technology Watch	D Amishev
HTW-006	August 2010	New Logging Technology: Hybrid Technology Forestry Equipment, Technology Outside Forestry, Earpiece Driver Alarm, Understanding and Managing Weed Risk, Forestry in Oregon State University (USA),	D Amishev
HTW-007	April 2011	New Logging Technology: Traceability solutions, Autonomous Navigation; Technology Outside Forestry: Retrofittable anti-rollover system, Exhaust gas energy recovery; FFR Files: PEEF; Global View: Forestry in South-West Germany	D Amishev
HTW-008	September 2011	New Logging Technology - Herzog Grizzly 400 Cable Yarder	D Amishev
HTW-009	January 2012	New Logging Technology: Telecarrier cable yarding system, Liquid armour that hardens on impact, The 'Intelligent T-shirt', Tree Counting with Virtual Plots, Finnish Forest Research Institute.	D Amishev
HTW-010	June 2012	New Logging Technology: Highlander Harvester; Alpine Shovel Yarder; Technology Outside Forestry: All Terrain Platform from MTEL; Ex-FFR Files: Valuing Avoided Soil Erosion; Global View: Centre for Forest Business at the University of Georgia, USA.	D Amishev
HTW-011	March 2013	New Logging Technology: Slash Removal from Streams; Overseas Harvesting Research Results: Low-Investment Fully Mechanised Thinning, Timber Transport Carbon Emissions - Technology Outside Forestry - Omni-crawler Vehicle Concept	D Amishev
HTW-012	June 2013	New Logging Technology: Koller Cable Yarders; Konrad Mouny 4000 Skyline Yarder; FibreDrive Quick Release Attachment System; Eco-Forest T-Winch Mobile Traction Winch; Herzog Alpine Synchronwinch; Optea Forest Falcon Head Up Display; Automatic Seat Levellers; Haglof Log Tagging System, Ludwig Girtzer Radio Controlled Chokers; Hand Held Wood Stack Measuring Device; Sauer Danfoss PVX Hydraulic Control Valve; Fogmaker Fire Suppression System; Dasa Forester H-series New Generation Harvester Log Making System; Elca Radio Remote Controls for Forestry Winches; Auto-tensioning of Load Securing Chains on Logging Trucks	K Raymond
HTW-013	June 2014	Optimisation in Harvesting Planning, PLANEX, CPLAN, Road Network Development, Harvesting Costs, Landing Selection, The Result of Chung PhD Dissertation, Usefulness for New Zealand, Useful References	S Hill
HTW-014	July 2014	New Logging Technology, Tower Guyrope sheave/roller System Modification, Overseas Harvesting Research, Working in Riparian Areas, A new three-wheeled bogie design is evaluated on soft and rough terrain	S Hill
HTW-015	July 2015	Robotics in the Forest Workshop, Advanced Technologies in Mining Mobile Equipment, The NSERC Canadian Field Robotics Network, Opportunities for Robotic Systems in Unstructured Environments, Mining Robotics, The Human-Machine Interaction Programme, Overview of MDA Robotics and Space Technologies, Environment & Self-learning Systems, John Deere Intelligent Boom Tip Control System, Advanced Technologies from Motion Metrics, Feller Buncher Teleoperation, Tree to Tree Robot, The Umea Forest Technology Cluster, Promising future pathways for advanced technologies in forest machines.	R Parker
<b>Restricted Access</b>			
HTW-016	November 2015	AustroFOMA Forestry Machinery Demonstration, Austria, October 2015, New Cable Yarding Technology from Europe: Koller Hybrid Tower Yarder, Electric Slackpulling Carriages, New Wire Rope Technology, Cable Tiger Motorised Slackpulling Carriage, Ecoforst T-Winch Mobile Traction Winch, Felling Wedges, Scorpion King Harvester.	R Visser and K Raymond
HTW-017	November 2016	Excavator Yarders of New Zealand, Background to Excavator Yarders, Multi-function Machines, Costs, Results: Tower Height, Winches, Yarding Distance, Carriages, Accessories/Attachments	T Evanson