

## Research projects

<i>Aetiology and epidemiology of forest diseases</i>	3299	2000-2006	Lilja, Arja	VA
<i>Autumn, winter and spring in forests</i>	3411	2005-2006	Ilvesniemi, Hannu	VA
<i>Biological removal of nutrients from mine waters</i>	7207	2005-2007	Varmola, Martti	RO
<i>Biotechnology in forest genetics and tree breeding</i>	3389	2004-2008	Aronen, Tuija	PU
<i>Changing operational environment of wood procurement</i>	3316	2001-2006	Rummukainen, Arto	VA
<i>Characterisation of Soil Organic Matter (SOM)</i>	3379	2003-2007	Kitunen, Veikko	VA
<i>Circulating nutritious residues in forests</i>	7110	2002-2007	Karlsson, Kristian	KA
<i>Comparison and selection for growth, wood quality and resistance characteristics in aspen and hybrid aspen</i>	3333	2002-2006	Beuker, Egbert	PU
<i>Competitive advantage of Finnish wood and timber in wood products markets</i>	3356	2002-2007	Enroth, Raija-Riitta	VA
<i>Competitiveness of forestry and the woodworking industries</i>	3337	2002-2006	Penttinen, Markku	VA
<i>Coniferous forest soil microbial activity and community structure</i>	3366	2003-2007	Fritze, Hannu	VA
<i>Control of radiation risks in forestry</i>	3314	2001-2006	Aro, Lasse	PA
<i>Control of wood properties by the means of forest tree breeding and silviculture</i>	3363	2002-2006	Saranpää, Pekka	VA
<i>Co-ordination and extension of the research programme "Potentials for the utilisation of roundwood and wood raw materials in relation to the wood product markets"</i>	3352	2002-2007	Verkasalo, Erkki	JO
<i>Coordination of Forest Management Planning Research Programme</i>	3270	1999-2006	Nuutinen, Tuula	JO
<i>Coordination of HMS research program</i>	3325	2001-2006	Sievänen, Risto	VA
<i>Coordination of research program "Alternatives of silvicultural practices in forest management and their effects on forest production"</i>	3278	2000-2006	Hynynen, Jari	VA
<i>Co-ordination of research programme</i>	3407	2005-2010	Horne, Paula	VA
<i>Cost efficient forest restoration</i>	3418	2005-2008	Ollonqvist, Pekka	JO
<i>Criteria for sustainable use and consolidation of land uses in Pallas-Ylläs national park - pilot study</i>	3395	2004-2006	Huhta, Esa	KO
<i>Cultivation of exotic and special tree species</i>	3018	1992-	Nikkanen, Teijo	PU
<i>Decision support system for stand management</i>	3282	2000-2006	Hynynen, Jari	VA
<i>Development of Forest Sector in Northwest Russia and its impact in Finland</i>	3384	2004-2007	Karjalainen, Timo	JO
<i>Development of the normative basis of sustainable forest management at regional level</i>	7209	2005-2007	Karjalainen, Timo	JO
<i>Diameter growth dynamics during growing season and annual growth variation</i>	3392	2004-2008	Nöjd, Pekka	VA
<i>Diversifying hardwood utilisation</i>	3353	2002-2007	Heräjärvi, Henrik	JO
<i>Economic-ecological interactions in sustainable use of forest resources</i>	3318	2001-2006	Tahvonen, Olli	VA

Effect of structural complexity on growth and yield of forest stands	3279	2000-2007	Valkonen, Sauli	VA
Effect of the population structure to breeding zones and selection index	3350	2002-2006	Pulkkinen, Pertti	VA
Effects of controlled burning and simulated storm damage on the species assemblages of old-growth forest	7081	2001-2011	Kukko-oja, Kari	MU
Effects of dense mixed seedling stands on the nutrient status of the groundwater	3313	2001-2006	Kubin, Eero	MU
Effects of harvesting drained peatland forests on the leaching of mercury and other heavy metals to surface waters	3412	2005-2006	Ukonmaanaho, Liisa	VA
Effects of restoration on the development of trees, vegetation and macrofungi in former managed forests	3404	2005-2006	Eerikäinen, Kalle	JO
Effects of soil moisture level and nitrogen availability on nutrient status and growth of Norway spruce stands ( <i>Picea abies</i> Karst.).	3375	2003-2006	Lumme, Ilari	VA
Enhancement of work opportunities with forest enterprises	7194	2005-2007	Uusitalo, Jori	PA
Enhancing local activity and values from forest land through community-led strategic planning	7184	2005-2008	Nuutinen, Tuula	JO
European climate of the last millennium (Millennium)	8507	2005-2009	Jalkanen, Risto	RO
Factors affecting into the controlled seed and seedlings production	3349	2002-2006	Pulkkinen, Pertti	VA
Factors for the wood and timber quality of Scots pine	3354	2002-2007	Verkasalo, Erkki	JO
Finnish Forest Sector Economic Outlook	3414	2005-2008	Sevola, Yrjö	VA
Fire and its use in boreal forest ecosystems	3303	2000-2006	Vanha-Majamaa, Ilkka	VA
Five European RES Heat Pilots (5EURES)	8503	2005-2007	Anttila, Perttu	JO
Fluxes of elements in boreal forest ecosystem after forest managements	3383	2004-2007	Piirainen, Sirpa	JO
Forest and mire vegetation as indicators of environmental change - pilotstudy	3397	2004-2006	Tonteri, Tiina	VA
Forest damage diagnostic service	3047	1992-	Pouttu, Antti	VA
Forest gene resources	3347	2002-	Rusanen, Mari	VA
Forest inventory and estimation methods for management planning	3343	2002-2007	Korhonen, Kari Tapani	JO
Forest policy for non-industrial private forestry in Finland	3309	2001-2006	Hänninen, Harri	VA
Forest regeneration and afforestation on peatlands	3387	2004-2008	Saarinen, Markku	PA
Forest simulator	3284	2000-2006	Siitonen, Markku	VA
Forest statistics information service	3006	1963-	Aarne, Martti	VA
Forestry modelling and analyses	3002	1985-	Salminen, Olli	VA
Genetic basis of adapted traits and economically important characteristics in forest trees	3365	2004-2008	Kärkkäinen, Katri	MU

<i>Genetic gain and genetic diversity in improved forest regeneration material</i>	3334	2002-2006	Nikkanen, Teijo	PU
<i>Greenhouse gas (CH<sub>4</sub> ja N<sub>2</sub>O) release in wetland buffer ecosystems after nutrient release from forestry practices</i>	3378	2003-2007	Alm, Jukka	JO
<i>Heavy metal deposition and bioindicators</i>	3373	2003-2007	Piispanen, Juha	MU
<i>Heuristic optimization methods in forest planning</i>	3369	2003-2007	Leskinen, Pekka	JO
<i>Identification and control of the risks caused by decay fungi</i>	3336	2002-2006	Piri, Tuula	VA
<i>Impacts of forest conservation on the Finnish forest sector in the changing business environment</i>	3415	2005-2009	Kallio, Maarit	VA
<i>Impacts of nature conservation on wood procurement possibilities and local economy</i>	3417	2005-2009	Nuutinen, Tuula	JO
<i>Information technology and the forest sector</i>	3339	2002-2006	Hetemäki, Lauri	VA
<i>Inspection of pesticides</i>	3046	1976-	Poteri, Marja	SU
<i>Integrating and strengthening the European Research Area</i>	8502	2004-2010	Henttonen, Heikki	VA
<i>IUFRO's Special Project on World Forest, Society and Environment</i>	3348	2002-2006	Mery Mery, Gerardo	VA
<i>Landscape lab - LIFE</i>	8501	2004-2007	Huhta, Esa	KO
<i>LIFE to KOLI- Restoration of the forests and meadows in the National Park</i>	8025	2003-2006	Eerikäinen, Kalle	JO
<i>LIGNUM model and its applications</i>	3342	2002-2007	Sievänen, Risto	VA
<i>Long-term monitoring of forest ecosystems</i>	3153	1995-	Derome, John	PA
<i>Mechanisms of resistance of forest trees</i>	3361	2002-2006	Rousi, Matti	PU
<i>Microbes and their cold-tolerance mechanisms in Arctic soils</i>	640007	2004-2007	Männistö, Minna	RO
<i>Modelling and extrapolation of peatland greenhouse gas fluxes</i>	7114	2002-2006	Alm, Jukka	JO
<i>Modelling forest carbon cycles</i>	3323	2001-2006	Sievänen, Risto	VA
<i>Modelling of regeneration result and early development in forest stands</i>	3370	2003-2006	Miina, Jari	JO
<i>Modification of the MELA Model to use Assimilated Initial Data to Produce Forest Growth Estimates in Boreal Forests</i>	7196	2005-2007	Nuutinen, Tuula	JO
<i>Molecular biology of forest pathogens and pests</i>	3298	2000-2006	Hantula, Jarkko	VA
<i>Monitoring changes in the carbon stocks of forest soils</i>	843002	2005-2007	Mäkipää, Raisa	PA
<i>National Forest Inventory 10</i>	3401	2004-	Korhonen, Kari Tapani	JO
<i>National Forest Tree Breeding and Seed Orchard Programs</i>	3413	2005-2009	Haapanen, Matti	VA
<i>Natural forests and mires in the green belt of Koillismaa and Kainuu (GreenBelt)</i>	805701	2004-2008	Tolvanen, Anne	MU
<i>Natural forests: structure, dynamics and biodiversity as compared with managed forests</i>	3317	2001-2006	Siitonen, Juha	VA
<i>Needle proxies as environmental indicators</i>	3294	2000-2006	Jalkanen, Risto	RO
<i>Nordkalotten Satellite Evaluation Network: monitoring the effects of climatic change on natural resources</i>	7189	2005-2007	Tolvanen, Anne	MU

Northern forest plants in natural product industry	7202	2005-2006	Varmola, Martti	RO
Novel upgraded products of mechanical wood processing	3355	2002-2006	Herjäärvi, Henrik	JO
Nursery production and planting chain	3296	2000-2006	Smolander, Heikki	SU
Nutrient amounts and nutrient dynamics in drained peatland	3386	2004-2008	Pietiläinen, Pekka	MU
Nutrient dynamics and management of forested mineral soils	3340	2002-2008	Helmisaari, Heljä-Sisko	VA
Official tasks of wood measuring	3364	2002-	Lindblad, Jari	JO
Outdoor recreation demand and benefits	3287	2000-2006	Sievänen, Tuija	VA
Phenology expert	8506	2004-2007	Beuker, Egbert	PU
Policy instruments for safeguarding forest biodiversity	3416	2005-2009	Naskali, Arto	RO
Polyamines in conifers	3388	2004-2006	Sarjala, Tytti	PA
Pools and fluxes of carbon on mineral soils and peatlands	3324	2001-2006	Helmisaari, Heljä-Sisko	VA
Population dynamics of forest pests, their influences on different tree species, population estimates and forest protection	3372	2003-2006	Neuvonen, Seppo	JO
Protection areas and rural vitality	3420	2005-2009	Selby, Ashley	VA
Protection of forest biodiversity in multi-objective forest planning	3419	2005-2009	Leskinen, Pekka	JO
Quality control in forest regeneration in private forests	3396	2004-2006	Saksa, Timo	SU
Recovery of logging residue for energy as part of forest management	3291	2000-2006	Nurmi, Juha	KA
Reduction of Greenhouse Gas Emissions in Russia - Finnish Business Opportunities	7205	2005-2007	Karjalainen, Timo	JO
Regeneration of spruce forests and vegetation diversity	3376	2003-2007	Vanha-Majamaa, Ilkka	VA
Regulation of fruiting body production of <i>Boletus pinophilus</i>	3346	2002-2007	Sarjala, Tytti	PA
Reindeer husbandry in a changing environment	3362	2002-2006	Helle, Timo	RO
Reproductive biology and genetic structure of forest stands	3393	2004-2007	Rusanen, Mari	VA
Research and monitoring of Arctic terrestrial ecosystems	3402	2004-2007	Derome, John	RO
Responses of forest trees to changing environment	3390	2004-2007	Vapaavuori, Elina	SU
Restoration of mires and forests in northern Finland	3408	2005-2009	Tolvanen, Anne	MU
Rodent cycles, damage and diseases	3168	2000-2007	Henttonen, Heikki	VA
Russian, Central and Eastern European Forestry Info Service	3406	2005-2006	Karvinen, Sari	JO
Sensor system for semi-automatic steering of forest machines and modelling of the stand	7193	2005-2007	Ala-Illmäki, Jari	VA
Silvicultural regimes for drained peatland forests.	7187	2005-2007	Hökkä, Hannu	RO
Success factors of wooden house and other woodworking firms in a changing competitive environment	3398	2004-2008	Ollonqvist, Pekka	JO
Sustainable multiple use of forests in northern Lapland	3400	2004-2007	Hyppönen, Mikko	RO
Technology, organising and logistics of plantation forestry	3335	2002-2006	Harstela, Pertti	SU

<i>The alternatives of the forest regeneration methods and their ecological and social sustainability in Northern Finland</i>	3249	1999-2006	Hallikainen, Ville	RO
<i>The effect of mycorrhizal inoculum on the growth and survival of the spruce seedlings</i>	3300	2000-2006	Pennanen, Taina	VA
<i>The effects of the timing of soil frost thawing on growth and physiology of roots and shoot in trees</i>	3394	2004-2007	Repo, Tapani	JO
<i>The environmental impact of the afforestation on cut-away peatlands</i>	7073	2001-2006	Piispanen, Juha	MU
<i>The influence of the water budget on tree growth and site productivity in forests on mineral soils in Southern Finland</i>	3332	2002-2006	Karlsson, Kristian	KA
<i>The risk of leaching from ash fertilized peatlands</i>	3374	2003-2007	Piirainen, Sirpa	JO
<i>Timber scaling for quantity and quality</i>	3359	2002-2007	Lindblad, Jari	JO
<i>Timing of phenological events in changing climate - research on trees and their seeds, yields of wild berries and mushrooms</i>	3385	2004-2008	Kubin, Eero	MU
<i>Tourism and sustainable use of natural and cultural environment</i>	3295	2000-2006	Tyrväinen, Liisa	RO
<i>Tree production and water protection after maintenance of ditch networks</i>	3319	2001-2007	Vuollekoski, Martti	VA
<i>Tree species and forest soil fertility</i>	3252	1999-2006	Smolander, Aino	VA
<i>TREESNIPS - Developing single nucleotide polymorphisms (SNP) markers for adaptive variation in forest trees</i>	836501	2002-2007	Kärkkäinen, Katri	MU
<i>Usability of real-time forest inventory information for guidance of forest owners and planning of forest operations</i>	7192	2005-2007	Rantala, Juho	SU
<i>Value formation of timber stands when targeting for alternative end-products in timber harvesting</i>	3357	2002-2007	Wall, Tapio	JO
<i>Wood energy resources and markets of energy technology in EU and international bioenergy trade</i>	7183	2005-2007	Asikainen, Antti	JO
<i>Analysis of the process of transition and recent developments in the forest sector in Central and Eastern European Countries and research priorities formulation</i>	3405	2005-2006	Ilavsky, Jan	JO
<i>Russian Wood Quality and Forestry Information Service</i>	7210	2005-2007	Karvinen, Sari	JO