

**Environmental
results
2005**

Stora Enso
Wood Supply
Finland



The Stora Enso Wood Supply (WS) environmental statement for 2005 presents the environmental impacts and their management in all WS geographic business units, including Finland.

In the WS comprehensive report, it was not practically feasible to describe the environmental results of each business unit to the extent that, for example, Wood Supply Finland has presented them in its EMAS statements.

This supplementary report on the environmental impacts of Wood Supply Finland's operations complements the WS environmental statement regarding the environmental results of the Finnish unit. Together, these reports constitute Wood Supply Finland's EMAS statement for 2005.

Resources

At the end of 2005, Wood Supply Finland had a total of 516 salaried employees, 127 forest workers and 127 terminal workers.

Wood harvesting operations were carried out by 246 regular contractors with 249 harvesters and 223 forwarders.

Timber transport was handled by 142 transport contractors operating 251 timber trucks.

Wood Supply Finland's regions, 1 October 2005

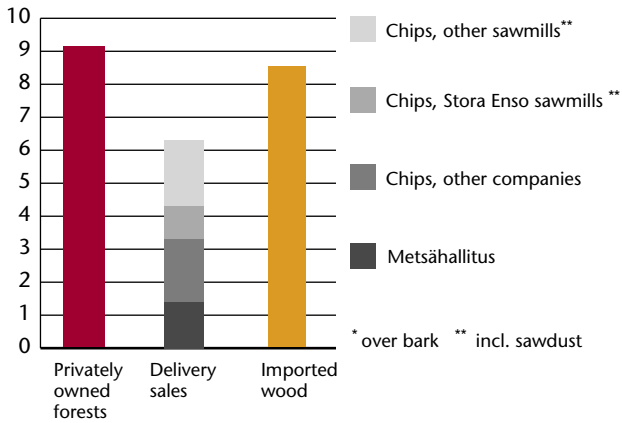


Wood Supply Finland's field operations were reorganised as of 1 October 2005 from five to four regions.



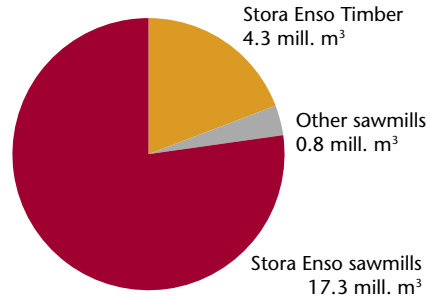
Wood procurement 20.8 mill. m³*

Distribution of wood deliveries to production sites in 2005, mill. m³



Wood deliveries 22.5 mill. m³

Wood deliveries to mills, mill. m³

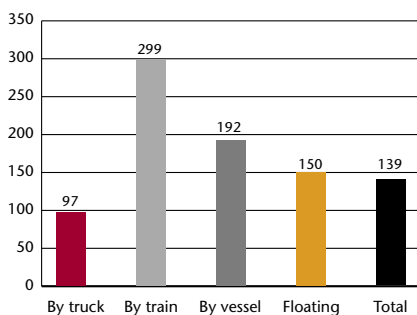


Fuel and oil consumption in 2005

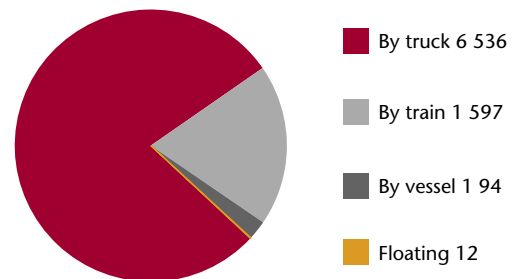
	Fuels and oils								Output	Unit
	Petrol		Diesel		Hydraulic oil		Saw chain oil			
	Tonnes	kg/unit	Tonnes	kg/unit	Tonnes	kg/unit	Tonnes	kg/unit		
Wood harvesting	47.9	0.006	12 201.1	1.634	250.5	0.034	233.4	0.031	7 469 000	m ³
Long-distance transport of timber*		0.000	14 494.8	1.738	76.9	0.009			8 339 000	m ³
Wood production and land improvement	9.7	2.602	40.6	10.940	0.4	0.097			3 714	ha
Personnel traffic to and from sites**	790.4	0.049	95.9	0.006					16 263 893	km
Delivered to mills, total	848	0.102	26 832	3.218	328	0.039	233	0.028	8 339 000	m ³
Share of energy consumption in domestic land and water transport in 2002: 0.6%										
Delivered to mills, total 2004	995	0.098	31 520	3.098	374	0.037	268	0.026	10 175 090	m ³
Change 2004–2005, %	-14.7	4.0	-14.9	3.9	-12.4	6.9	-13.1	6.1	-18.0	

* 1 897 MWh of electricity used by rail transport converted to 179 toe of fuel
 ** Including estimated traffic by harvester operators

Domestic wood transport distances in 2005, km



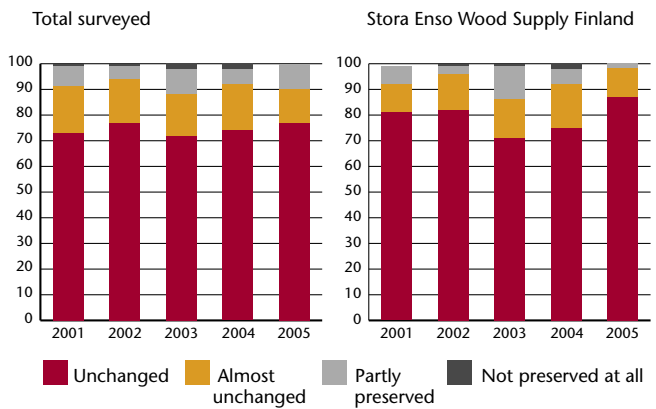
Domestic wood transport volumes in 2005, tm³



Ecological quality inventories of felling sites in 2005

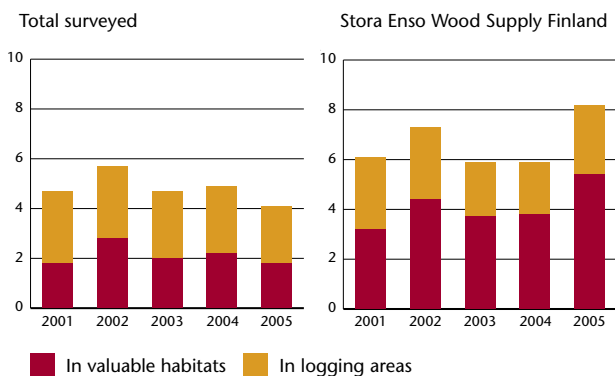
Ecological quality inventories in summer 2005 covered 219 stands harvested by Wood Supply Finland, including 311 compartments with a total area 863 hectares. The inventoried area contained three valuable habitats protected under the Nature Conservation Act, 63 habitats protected under the Forest Act, three habitats protected on the basis of forest certification criteria and 90 other valuable habitats.

Preservation of valuable habitats % of area surveyed



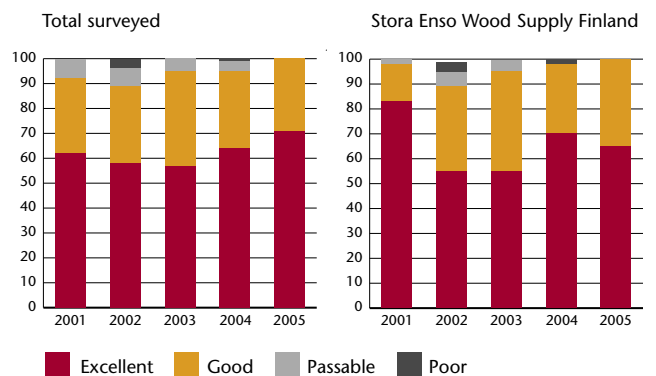
The proportion of habitats that remained unchanged or almost unchanged on our harvesting sites increased and accounted for 98%, which is clearly better than the national average.

Volume of retained trees m³/ha



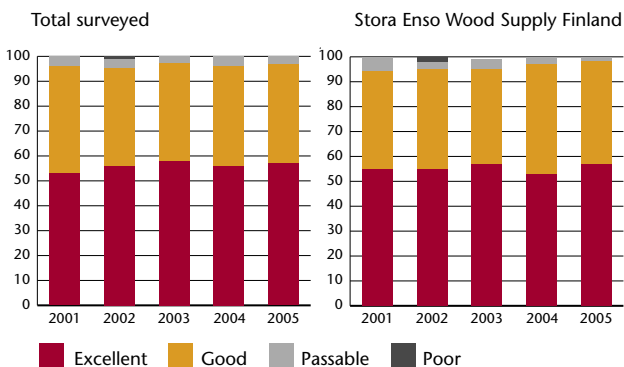
The average volume of retained live and dead trees in our felling areas was 8.2 m³/ha; 65.9% of the retained trees were located in valuable habitats.

Quality of water protection in wood harvesting % of area surveyed



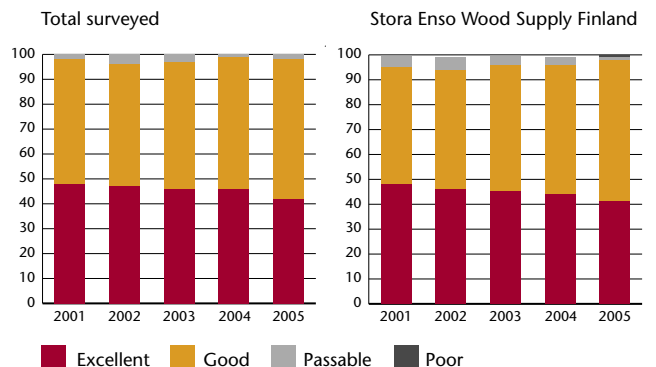
The proportion of our water protection measures rated good or better was 100%, the same as the national average.

Terrain damage caused by wood harvesting % of area surveyed



Terrain damage caused by our wood harvesting operations decreased from the previous year and the result was slightly better than the national average.

Consideration of landscape values % of area surveyed



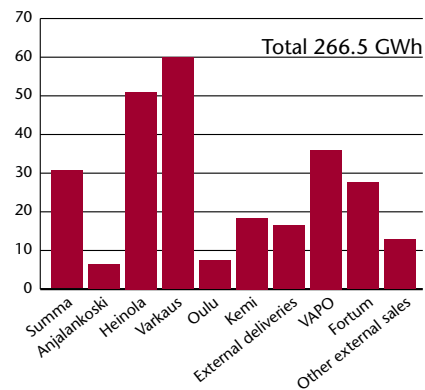
Consideration of landscape values during fellings was good or better on 97% of our total felling area.

Overall assessment of the quality of environmental management
% of area surveyed



The quality of our environmental management has remained good. We aim to continuously increase the proportion of good and excellent ratings.

Bioenergy supply in 2005, GWh



Emissions into the air

Outputs and units as in the fuel and oil consumption table on p. 2

	Emissions											
	HC		NO _x		CO ₂		Particulates		SO ₂		CO	
	Tonnes	kg/unit	Tonnes	kg/unit	Tonnes	kg/unit	Tonnes	kg/unit	Tonnes	kg/unit	Tonnes	kg/unit
Wood harvesting	77.8	0.010	587.4	0.079	39 144	5.241	43.5	0.006	15.0	0.002	185.7	0.025
Long-distance transport of timber	14.6	0.002	793.4	0.095	45 352	5.439	13.9	0.002	17.1	0.002	57.7	0.007
Fuel consumption and emissions 2005	3.9	1.041	2.0	0.547	159	42.853	0.2	0.063	0.0	0.012	11.0	2.962
Personnel traffic to and from sites*	1.36	0.00008	0.98	0.00006	2 739	0.168	0.36	0.00002	0.11	0.00001	9.1	0.00056
Delivered to mills, total	98	0.012	1 384	0.166	87 393	10.480	58	0.007	32	0.004	264	0.032
Share of emissions in domestic land and water transport in 2002, %	0.2		1.0		0.6		1.0		0.2		0.1	
Share of emissions from pulp and paper industry in 2000, %			6.2		1.1		1.0		0.2			
Delivered to mills, total 2004	119	0.012	1 631	0.160	102 664	10.090	67	0.007	42	0.004	323	0.032
Change 2004–2005, %	-17.7	0.4	-15.2	3.5	-14.9	3.9	-13.3	5.8	-23.0	-6.0	-18.5	-0.5

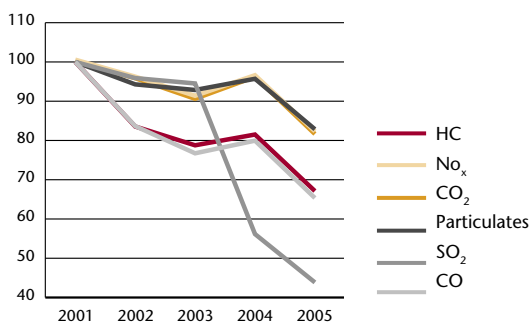
* Including estimated traffic by harvester operators

Emissions into the air per unit of output 2005
Changes since 2001, %



The relative increase of the CO₂ and NO_x emissions calculated per unit of output was due to the decreased relative proportion of rail transport.

Wood Supply Finland's emissions into the air 2005
Changes since 2001, %



The decrease in Wood Supply Finland's emissions from the previous year was significantly due to lower volumes of timber harvesting and transport as well as an increased proportion of imports, which resulted from a lengthy labour dispute.

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