

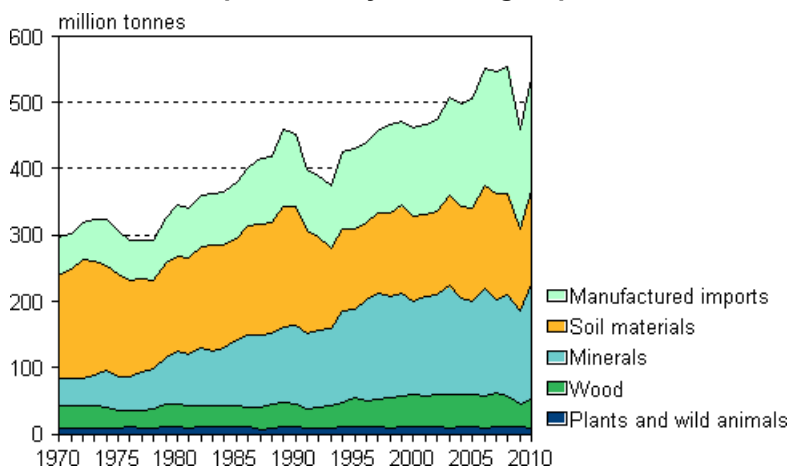
Economy-wide material flow accounts 2010

Material requirement on the increase in the wake of economic recession

Corrected on 28 March 2012. The correction is indicated in red. Was previously 100 million tonnes.

Total material requirement in Finland's economy amounted to 537 million tonnes in 2010. This equals just over **100 tonnes** per capita. Total material requirement is the sum of domestic and foreign direct inputs and hidden flows. In 2010, total material requirement turned into sharp growth from the year before. Use of wood and minerals increased most, both by 25 per cent. By contrast, the used amount of plants decreased by 14 per cent, mainly due to diminished grain crop.

Total material requirement by material groups 1970–2010



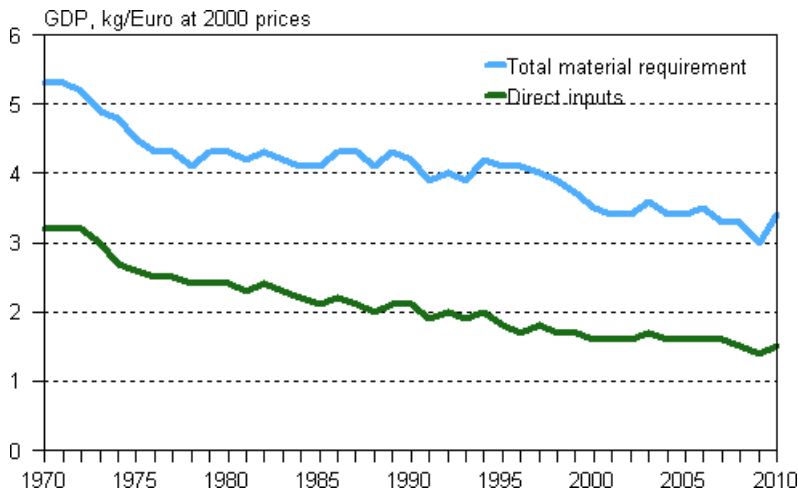
These are the first economy-wide material flow accounts data released by Statistics Finland. The time series of these data (from 1970 and 2009) were previously compiled by the Thule Institute of the University of Oulu. The accounts form part of environmental accounts, on which the European Union passed a regulation this year.

The trend in total material requirement showed a clear decline after the oil crisis of the mid-1970s, through the early part of the 1990s and in the year 2009. In spite of these temporary drops, total material requirement has almost doubled from 1970 to 2010. By international comparison, Finland's total material requirement per capita is notably high.

The impact of Finland's economy on the material requirement of other countries has also grown strongly. In four decades, direct inputs of imports have grown 2.3-fold and hidden flows of imports 3.5-fold.

The material intensity of Finland's economy, or the amount of used material relative to GDP, was the lowest, i.e. the most efficient, in 2009. The intensity weakened clearly in 2010.

Material intensity of Finland's economy 1970-2010



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Appendix tables

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	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
	1 000 tonnes										
Plants and wild animals	11 222	10 467	10 802	9 858	10 198	10 664	9 564	10 542	10 440	10 534	9 078
direct inputs	10 719	10 043	10 299	9 521	9 792	10 343	9 262	10 306	10 108	10 230	8 822
hidden flows	503	424	504	337	406	321	302	237	331	303	256
Wood	47 640	47 921	49 124	49 915	50 025	50 148	48 000	51 147	47 829	33 654	42 230
direct inputs	36 195	36 427	37 396	38 238	38 571	38 563	37 352	39 775	38 162	28 959	35 743
hidden flows	11 445	11 493	11 728	11 677	11 453	11 586	10 648	11 372	9 667	4 694	6 487
Minerals	142 287	148 190	149 110	163 421	145 843	139 121	160 981	141 046	150 455	140 863	175 997
direct inputs	52 038	55 465	57 630	62 759	56 982	57 196	64 485	56 783	58 201	60 610	71 033
hidden flows	90 249	92 725	91 479	100 662	88 860	81 925	96 497	84 263	92 254	80 253	104 964
Soil materials	127 544	124 416	126 252	137 208	137 969	140 594	155 645	159 719	153 427	124 903	139 250
direct inputs	94 955	94 205	98 152	106 182	108 822	110 842	123 159	127 191	123 928	97 273	101 083
hidden flows	32 588	30 212	28 100	31 026	29 147	29 752	32 486	32 528	29 499	27 630	38 167
Manufactured imports	133 654	135 021	138 212	147 641	154 875	163 759	177 519	184 961	190 841	148 284	170 597
direct inputs	17 325	17 721	17 796	19 511	20 279	21 430	23 238	24 662	26 238	20 876	24 988
hidden flows	116 330	117 300	120 417	128 131	134 596	142 328	154 281	160 299	164 602	127 408	145 609
Total	462 347	466 015	473 500	508 043	498 909	504 286	551 709	547 415	552 991	458 237	537 153
direct inputs	211 231	213 861	221 273	236 210	234 446	238 374	257 495	258 717	256 638	217 949	241 670
hidden flows	251 116	252 154	252 227	271 833	264 463	265 912	294 214	288 698	296 354	240 289	295 482

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Source: Economy-wide material flow accounts 2010, Statistics Finland