

Economy-wide material flow accounts 2020

Mining of minerals and soil materials increased domestic material consumption in 2020

A total of 184 million tonnes of natural resources were taken into use in Finland in 2020. Domestic material consumption grew by close on five per cent from the previous year and the volume was highest since 2013. The growth was particularly due to increased use of minerals and soil materials – their combined share of direct inputs of natural resources was 63 per cent.

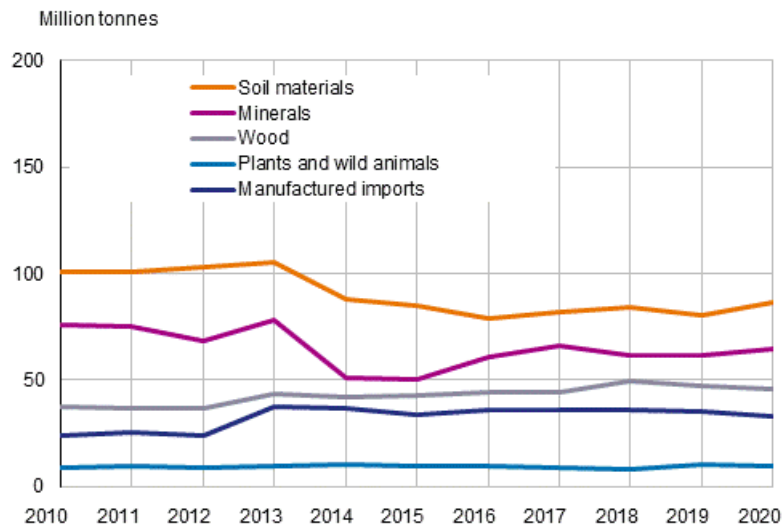
Table 1. Domestic material consumption 2010 - 2020

million tonnes	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Domestic direct inputs	187	186	185	215	170	167	172	180	180	178	184
Foreign direct inputs	60	62	56	58	57	53	57	56	60	57	54
Exports	42	44	44	45	45	42	44	45	49	50	46
Domestic material consumption	204	203	197	229	183	179	185	191	191	184	193

Altogether 184 million tonnes of domestic natural resources were utilised in 2020. Domestic direct inputs refer to materials extracted from domestic nature, and when inputs imported from abroad as raw materials or processed products are added to them and exports are subtracted, domestic material consumption is derived, which is one of [the UN's indicators for sustainable development](#). Both imports and exports of materials decreased from the previous year.

Domestic material consumption was 193 million tonnes in 2020. This was nearly five per cent more than in 2019, when domestic material consumption had diminished especially as a result of a decrease in soil extraction. The figure for 2020 was higher than at any time since 2013: the growth was based on an increase in domestic direct inputs.

Material requirement as direct inputs by material group in 2010 to 2020, million tonnes



In 2020, the volume of soil materials and minerals increased from direct inputs, i.e. natural resources taken into use from Finland and abroad, to over 150 million tonnes. In turn, the volumes of wood, plants and wild animals, as well as imported processed products decreased. Thirty-six per cent of the direct inputs were soil materials, 27 per cent minerals and 23 per cent wood and other plants and wild animals. The import volumes fell, especially due to decreased imports of fossil energy materials, such as hard coal and crude oil. The decrease in exports was affected by changes in the volumes of wood and exported processed products.

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Appendix table 1. Total material requirement by material groups 2007 - 2020

millions tons	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Materials total	548	578	483	560	563	544	584	538	547	593	612	642	605	602
Plants and wild animals	11	11	11	9	10	9	11	11	10	11	10	9	11	10
Wood	51	56	37	47	46	46	54	53	54	56	56	64	60	58
Minerals	141	166	159	204	203	187	215	189	203	245	256	275	248	250
Soil materials	160	161	134	138	134	137	141	121	121	116	117	120	116	122
Manufactured imports	185	184	143	161	170	164	160	163	156	164	170	172	167	160

Appendix table 2. Direct input requirement by material groups 2007 - 2020

millions tons	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Materials total	258	265	221	247	247	240	274	228	221	229	237	240	235	239
Plants and wild animals	10	10	10	8	9	8	9	10	9	9	9	8	10	9
Wood	39	42	29	37	36	36	43	42	43	44	44	49	47	45
Minerals	56	61	63	75	75	68	78	51	50	60	66	61	61	64
Soil materials	127	123	97	101	100	103	105	87	84	78	81	84	80	86
Manufactured imports	24	26	20	24	25	24	37	37	33	36	35	36	35	32

Appendix table 3. Hidden flow requirement by material groups 2007 - 2020

millions tons	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Materials total	288	313	261	313	315	302	309	309	325	363	375	401	370	363
Plants and wild animals	0	0	0	0	0	0	1	1	1	1	1	1	1	1
Wood	11	13	7	9	9	9	11	11	11	12	12	14	13	12
Minerals	84	104	94	128	127	119	137	137	153	184	190	213	186	185
Soil materials	32	37	37	37	33	34	36	33	36	37	35	36	36	36
Manufactured imports	160	157	121	137	144	139	123	126	122	127	135	136	132	127

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