

Wood measuring methods used in Finland 2018

Metsäteho Result Series 9-EN/2019

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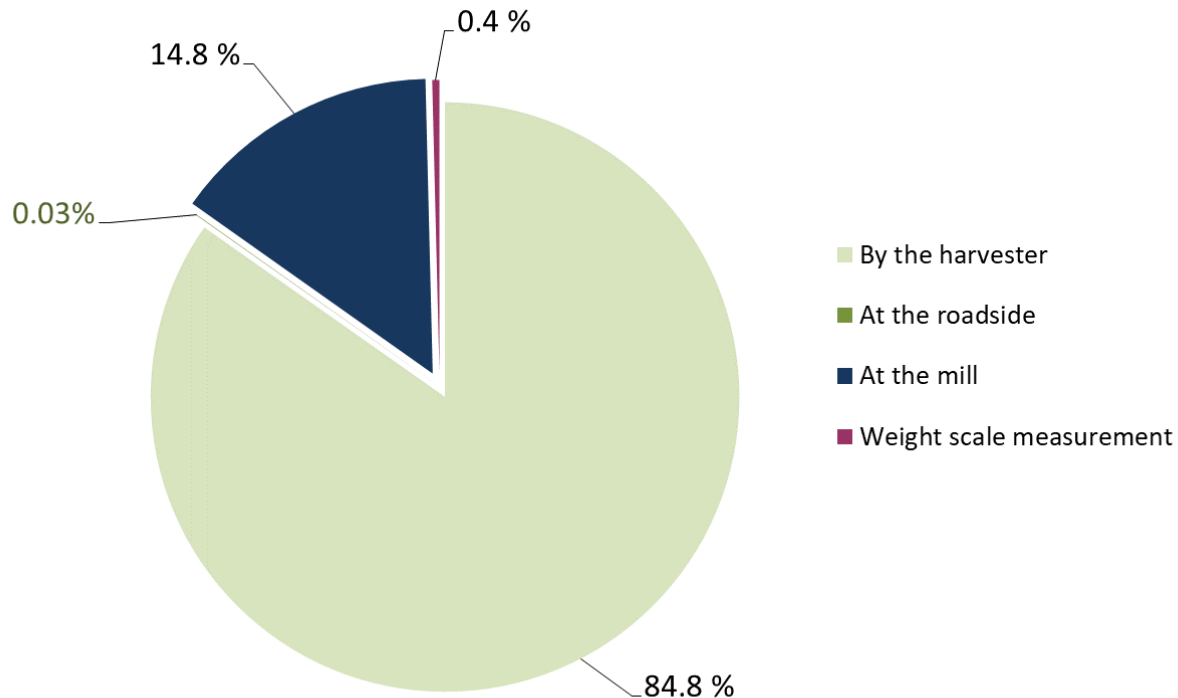
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The volume of wood measuring in 2018

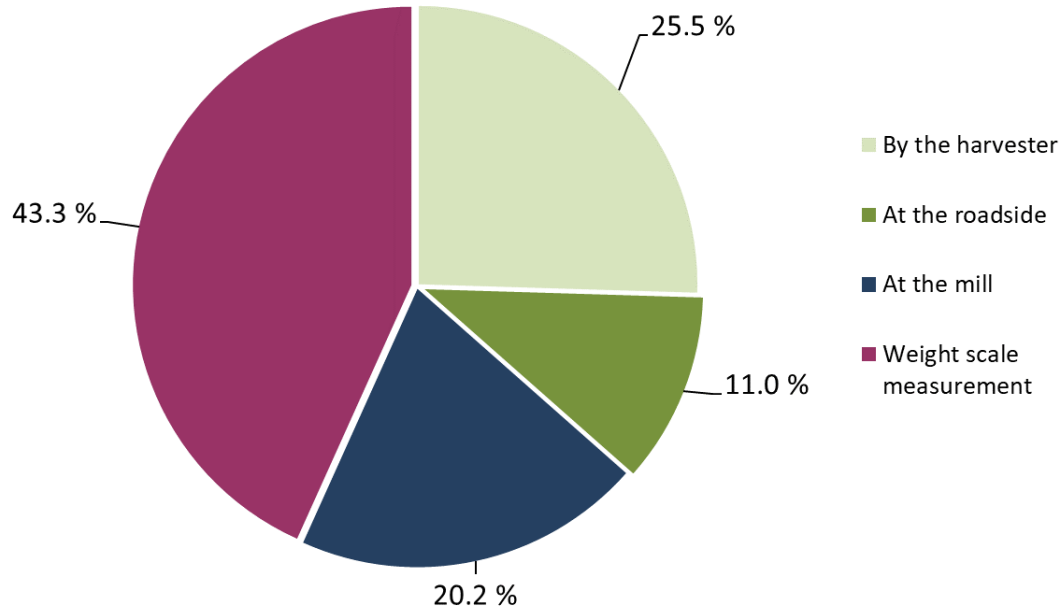
- Wood measuring methods used in 2018 statistics is based on the answers which Metsäteho owners, the Finnish forest industry companies and Metsähallitus, have reported. It covers 75% of domestic timber felling.
- The used volumes (m³ sob) in statistics are the next:
 - Standing sales 44.6 million m³
 - Delivery sales 6.6 million m³
 - Together 51.2 million m³
- In 2018, the volume of standing sales was 49.1 million m³ sob and delivery sales 8.7 million m³ sob from private-owned forests. (Source: Luke = Natural Resources Institute Finland)
- Timber felling from industry-owned and state-owned forests totalled 11.1 million m³ sob. (Source: Luke)
- Commercial roundwood fellings in 2018 stood at 68.8 million m³ sob in Finland, of which sawlogs amounted to 29.4 and pulpwood 39.5 million m³ sob. (Source: Luke)
- Timber volume is expressed in cubic metres, real solid volume over bark.
- From year 2014 fellings of industry- and state-owned forests are included to standing sales. Earlier private owned-forests are presented separately.



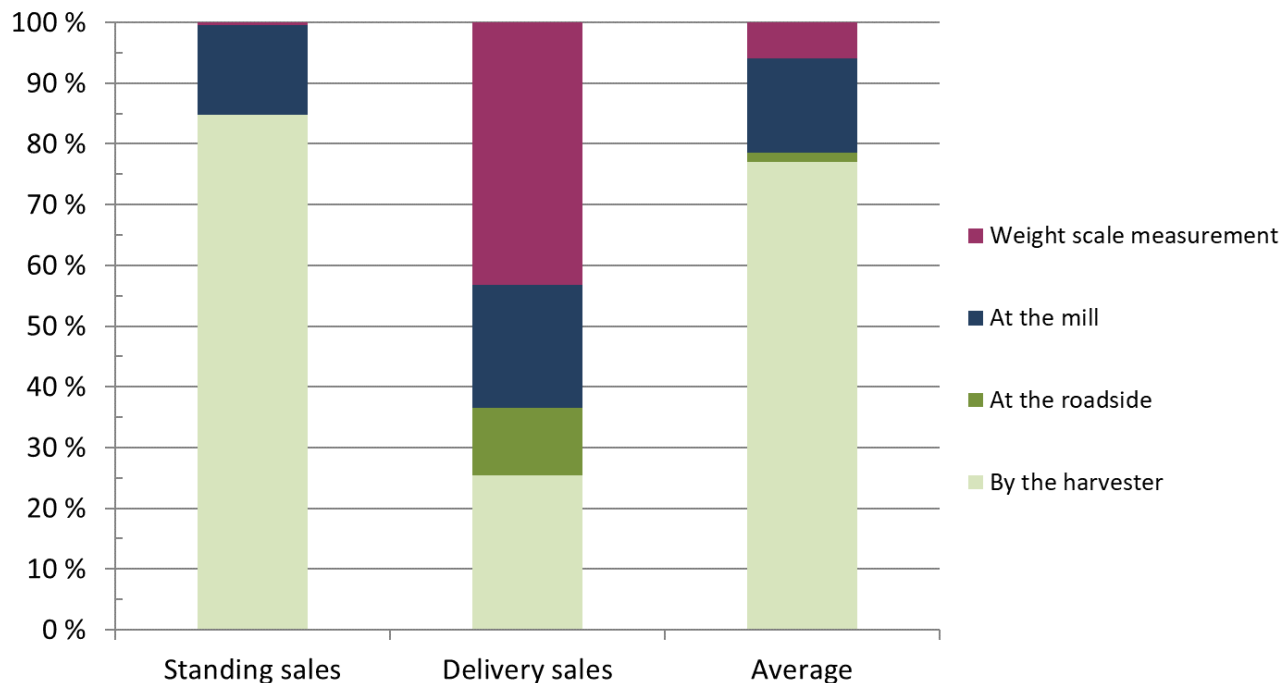
Measurement methods in standing sales of private- and industry- and state-owned forests in 2018 (44.6 million m³)



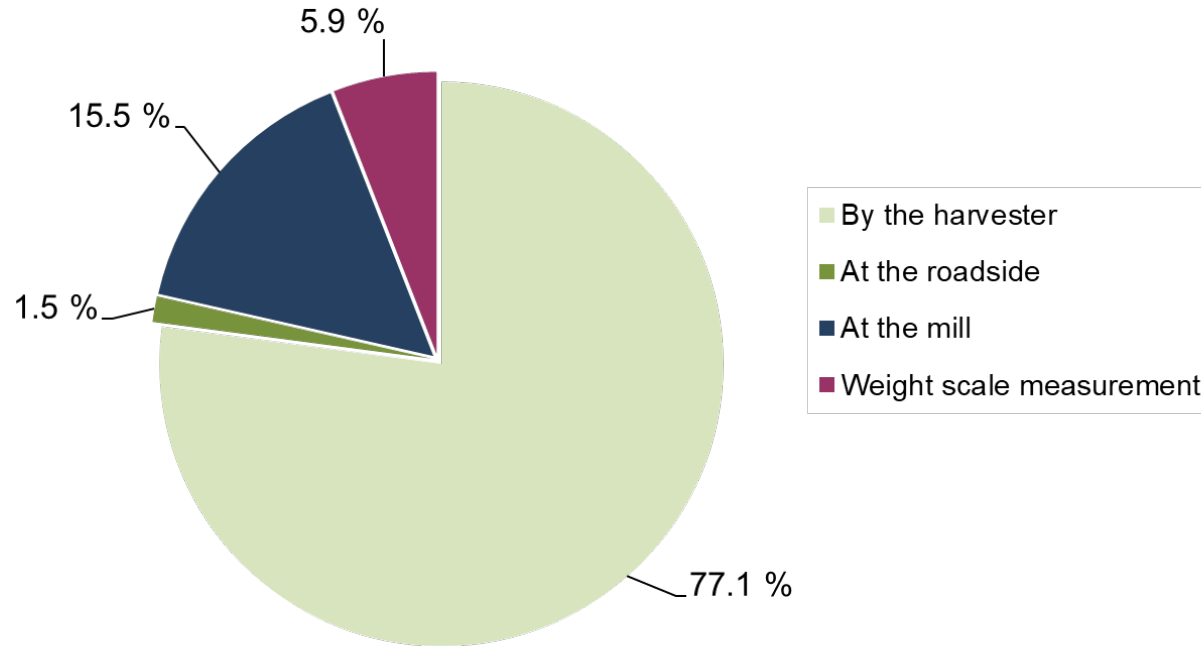
Measurement methods in delivery sales of private-owned forests in 2018 (6.6 million m³)



Measurement methods in the total commercial roundwood fellings in 2018 (standing and delivery sales, 51.2 million m³)



Measuring methods in the total commercial roundwood fellings in 2018 (51.2 million m³)

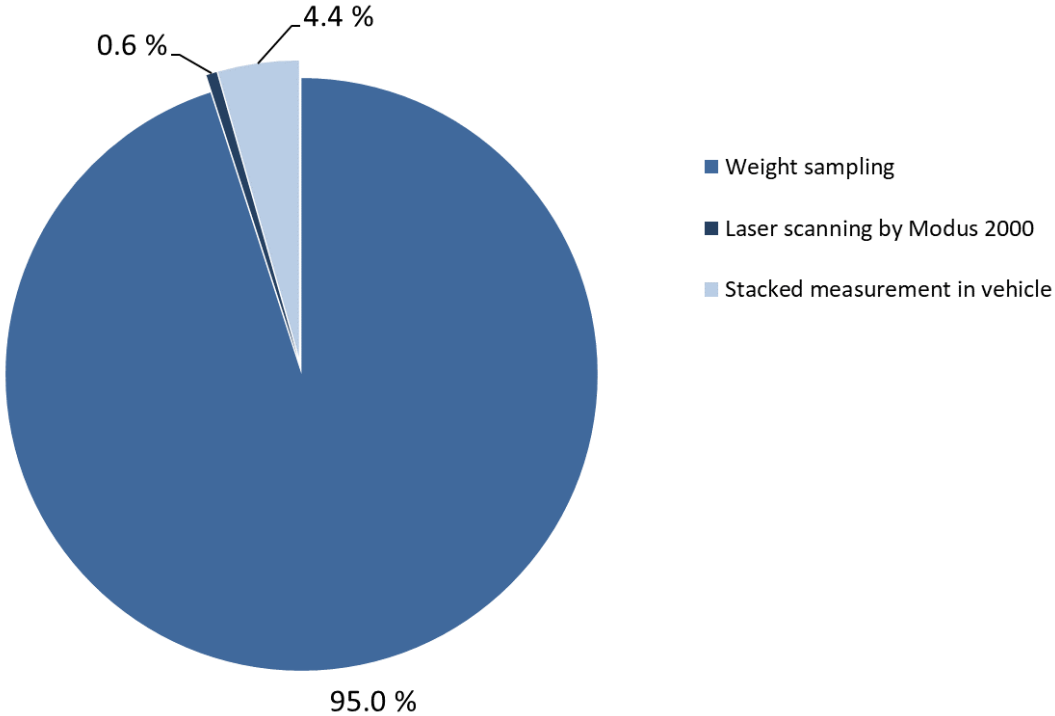


Sawlogs and pulpwood measured at the mill and at the roadside in 2018

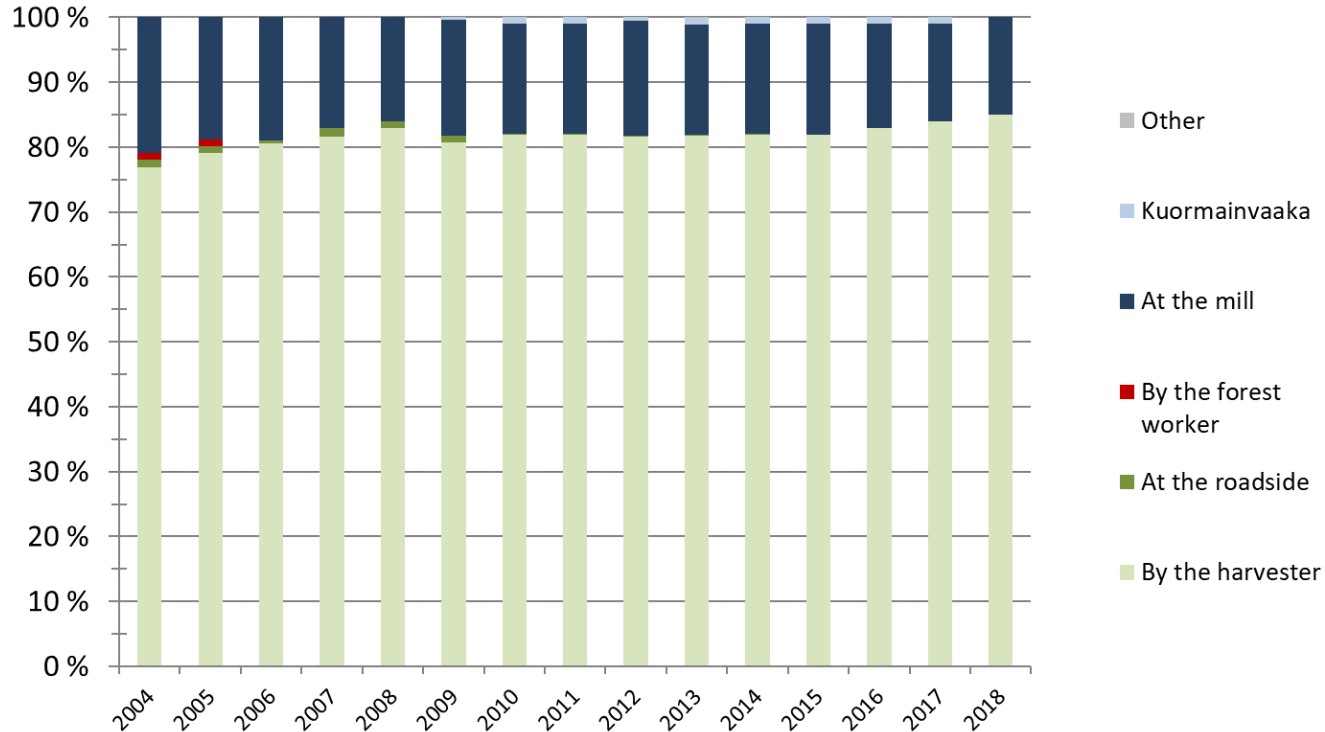
- At the mill altogether 7.95 million m³ was measured, which represents 15.5% of total commercial roundwood fellings in 2018. The proportion of the sawlogs measured at the mill was 45.0% and pulpwood 55.0%.
 - The sawlogs were mainly measured by using log scanners and x-ray log scanners.
 - The pulpwood measuring methods are presented in the next slide (slide number 8).
- At the road side altogether 0.75 million m³ was measured, which represents 1.5% of total commercial roundwood fellings in 2018. The proportion of sawlogs measured at the mill was 21.3% and pulpwood 78.7%.
 - The sawlogs were measured based on the top diameter of the log and the pulpwood was measured by using pile scaling method.
- Altogether 3.0 million m³ was measured with loader scales, which represents 5.9% of total commercial roundwood fellings in 2018.
 - Loader scales was mainly used in delivery sales (43.3%) and also in some standing sales (0.3%).



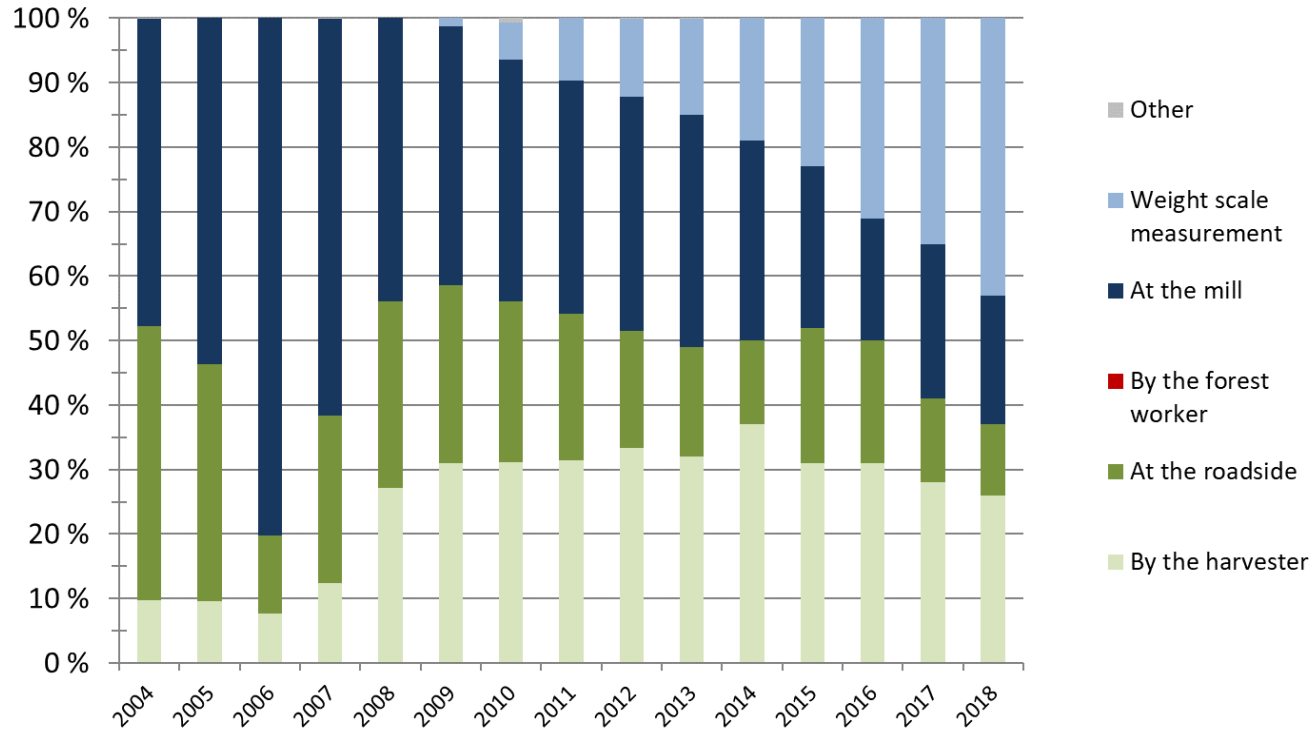
Methods used for pulpwood measuring at the mills in 2018 (about 4.4 million m³)



Proportions of different wood measuring methods in standing sales, 2004–2018



Proportions of different wood measuring methods in delivery sales, 2004–2018



Wood quantities and proportions of methods in the total commercial roundwood fellings in 2018

PROPORTION OF WOOD MEASURING METHODS IN 2018

Private- and industry-owned forests (incl. State forests)

Method	Total, 1000 m ³			Total, %		
	Standing sales	Delivery sales	Together	Standing sales	Delivery sales	Average
By the harvester	37 810	1 688	39 498	84.7	25	77.1
At the roadside	14	732	746	0.1	11	1.5
At the mill	6 612	1 340	7 951	14.8	20	15.5
Weight scale measurement	176	2 867	3 042	0.4	43	5.9
Other	3	1	4	0.0	0	0.0
Total	44 614	6 627	51 241	100.0	100.0	100.0

Proportions of wood measuring methods, 2004–2018

STANDING SALES OF PRIVATE- AND INDUSTRY-OWNED FORESTS (INCL. STATE FORESTS)

Year	Proportion of method, %						Total
	By the harvester	At the roadside	By the forest worker	At the mill	Weight scale measurement	Other	
2004	77	1	1	21	0	0	100
2005	79	1	1	19	0	0	100
2006	81	0	0	19	0	0	100
2007	82	1	0	17	0	0	100
2008	83	1	0	16	0	0	100
2009	81	1	0	18	0	0	100
2010	82	0	0	17	1	0	100
2011	82	0	0	17	1	0	100
2012	82	0	0	18	1	0	100
2013	82	0	0	17	1	0	100
2014	82	0	0	17	1	0	100
2015	82	0	0	17	1	0	100
2016	83	0	0	16	1	0	100
2017	84	0	0	15	1	0	100
2018	85	0	0	15	0	0	100

Proportions of wood measuring methods, 2004–2018

DELIVERY SALES OF PRIVATE OWNED FORESTS

Year	Proportion of method, %						Total
	By the harvester	At the roadside	By the forest worker	At the mill	Weight scale measurement	Other	
2004	10	42	0	48	-	0	100
2005	10	37	0	54	-	0	100
2006	8	12	0	80	-	0	100
2007	12	26	0	62	-	0	100
2008	27	29	0	44	-	0	100
2009	31	28	0	40	1	0	100
2010	31	25	0	37	6	1	100
2011	31	23	0	36	10	0	100
2012	33	18	0	36	12	0	100
2013	32	17	0	36	15	0	100
2014	37	13	0	31	19	0	100
2015	31	21	0	25	23	0	100
2016	31	19	0	19	31	0	100
2017	28	13	0	24	35	0	100
2018	26	11	0	20	43	0	100