

Wood measuring methods used in Finland 2020

Metsäteho Result Series 7-EN/2021

Timo Melkas, Metsäteho Oy

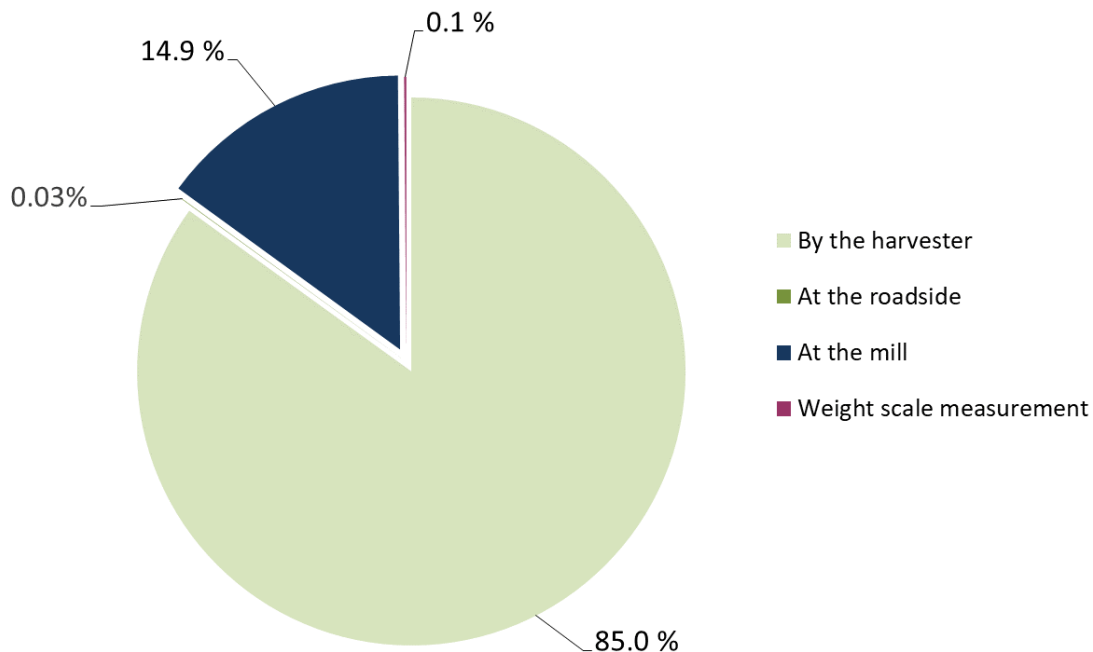
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The volume of wood measuring in 2020

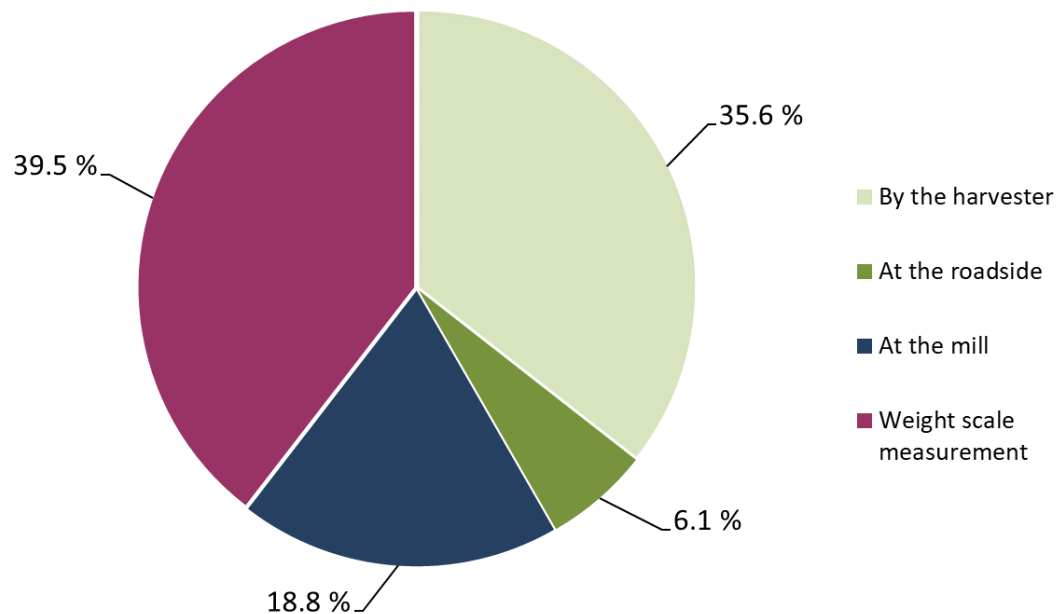
- Wood measuring methods used in 2020 statistics is based on the answers which Metsäteho owners, the Finnish forest industry companies and Metsähallitus, have reported. It covers 81% of domestic timber felling.
- The used volumes (m³ sob) in statistics are the next:
 - Standing sales 40.3 million m³
 - Delivery sales 5.2 million m³
 - Together 45.5 million m³
- In 2020, the volume of standing sales was 40.1 million m³ sob and delivery sales 5.5 million m³ sob from private-owned forests. (Source: Luke = Natural Resources Institute Finland)
- Timber felling from industry-owned and state-owned forests totalled 10.8 million m³ sob. (Source: Luke)
- Commercial roundwood fellings in 2020 stood at 56.4 million m³ sob in Finland, of which sawlogs amounted to 24.3 and pulpwood 32.1 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.



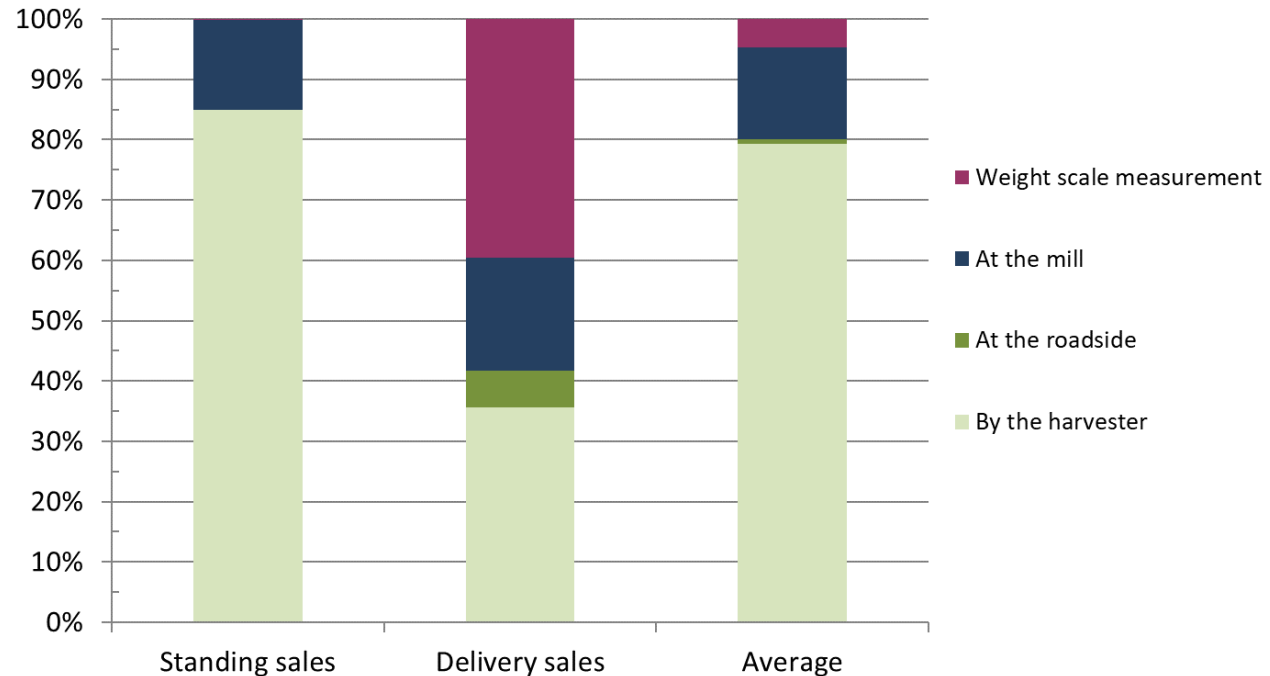
Measurement methods in standing sales of private- and industry- and state-owned forests in 2020 (40.3 million m³)



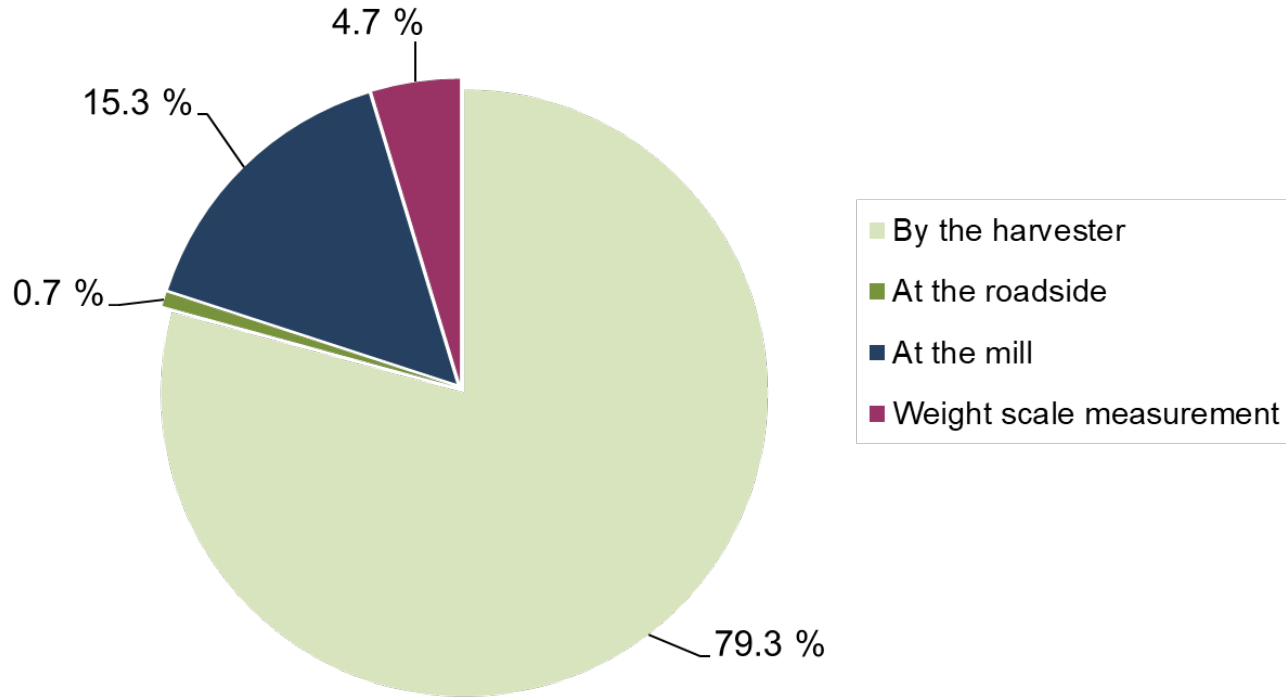
Measurement methods in delivery sales of private-owned forests in 2020 (5.2 million m³)



Measurement methods in the total commercial roundwood fellings in 2020 (standing and delivery sales, 45.5 million m³)



Measuring methods in the total commercial roundwood fellings in 2020 (45.5 million m³)

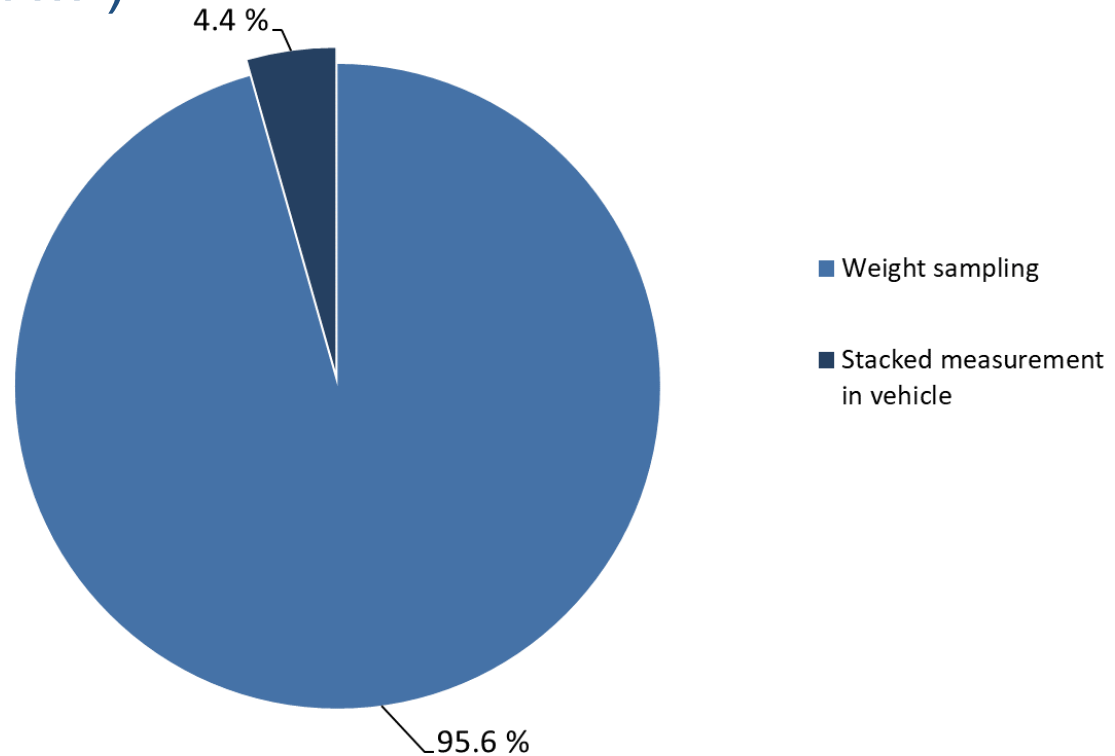


Sawlogs and pulpwood measured at the mill and at the roadside in 2020

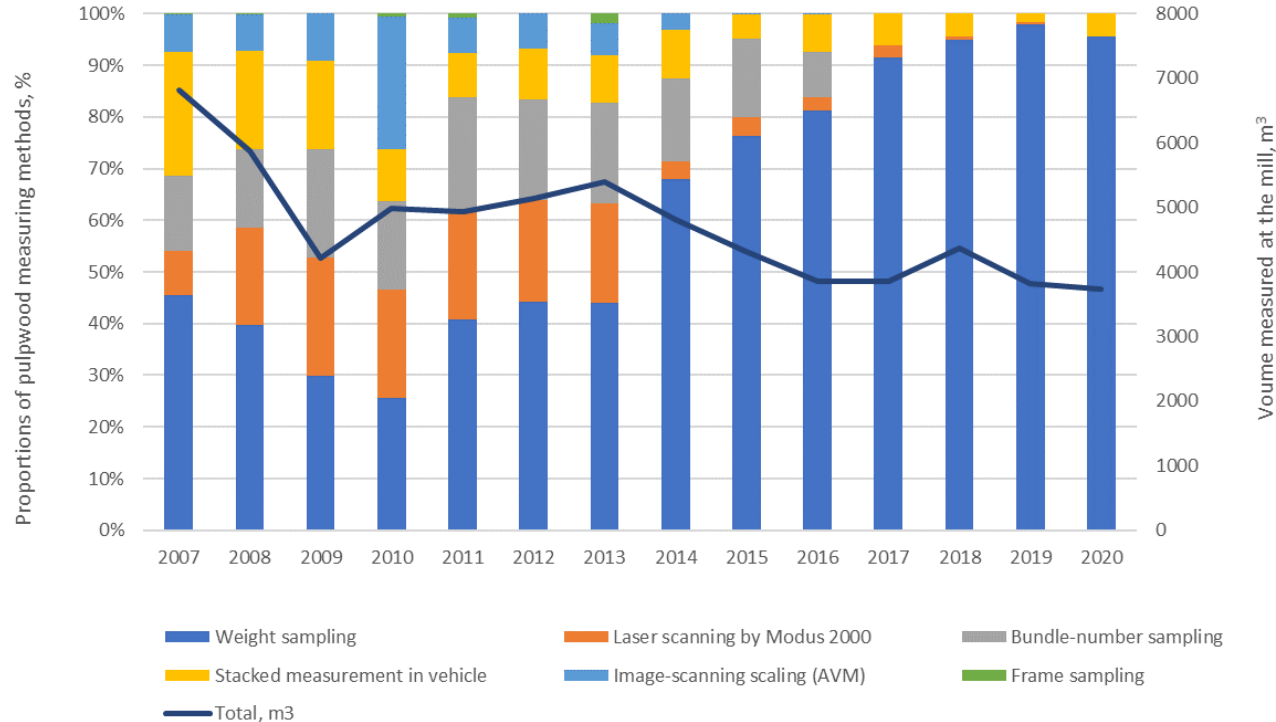
- At the mill altogether 6.9 million m³ was measured, which represents 15.3% of total commercial roundwood fellings in 2020. The proportion of the sawlogs measured at the mill was 46.5% and pulpwood 53.5%.
 - The sawlogs were mainly measured by using log scanners and x-ray log scanners.
 - The pulpwood measuring methods are presented in the next slide (slide number 8).
- At the road side altogether 0.3 million m³ was measured, which represents 0.7% of total commercial roundwood fellings in 2020. The proportion of sawlogs measured at the mill was 18.8% and pulpwood 81.2%.
 - The sawlogs were measured based on the top diameter of the log and the pulpwood was measured by using pile scaling method.
- Altogether 2.1 million m³ was measured with loader scales, which represents 4.7% of total commercial roundwood fellings in 2020.
 - Loader scales was mainly used in delivery sales (39.5%) and also in some standing sales (0.1%).



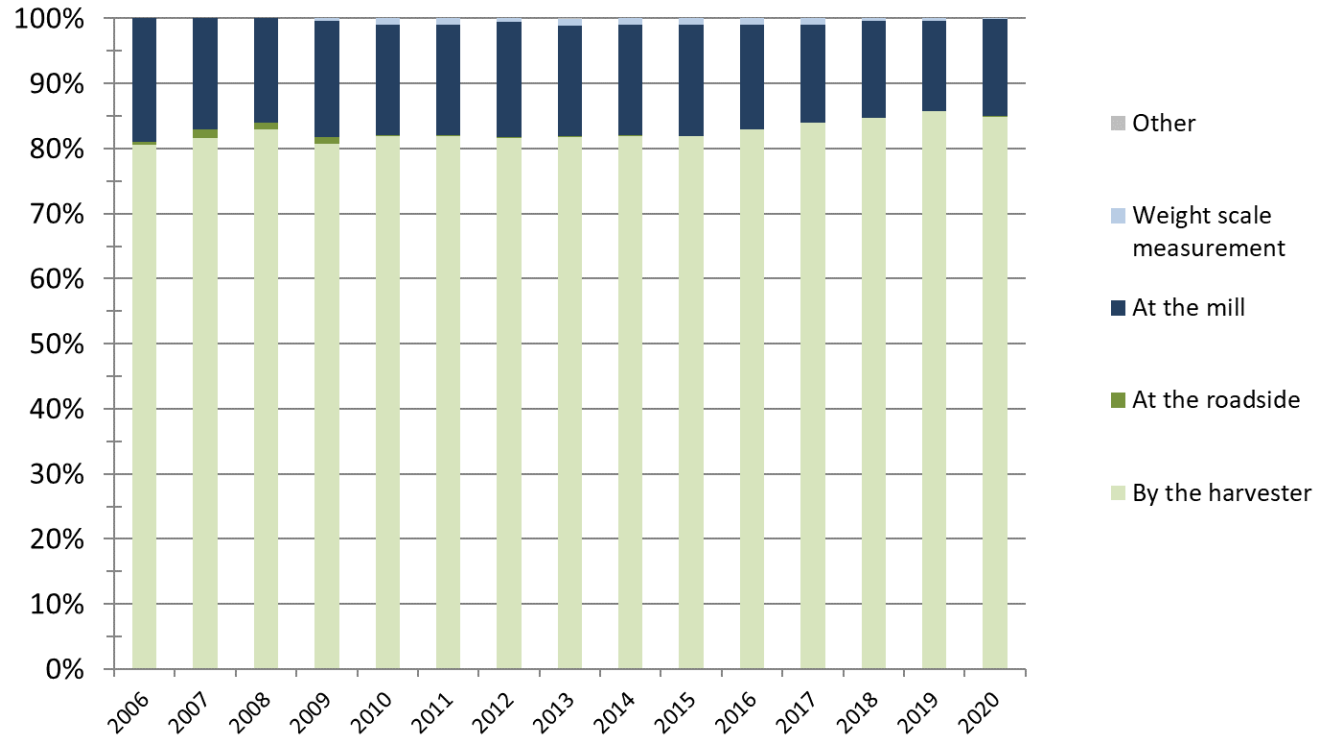
Methods used for pulpwood measuring at the mills in 2020 (about 3.7 million m³)



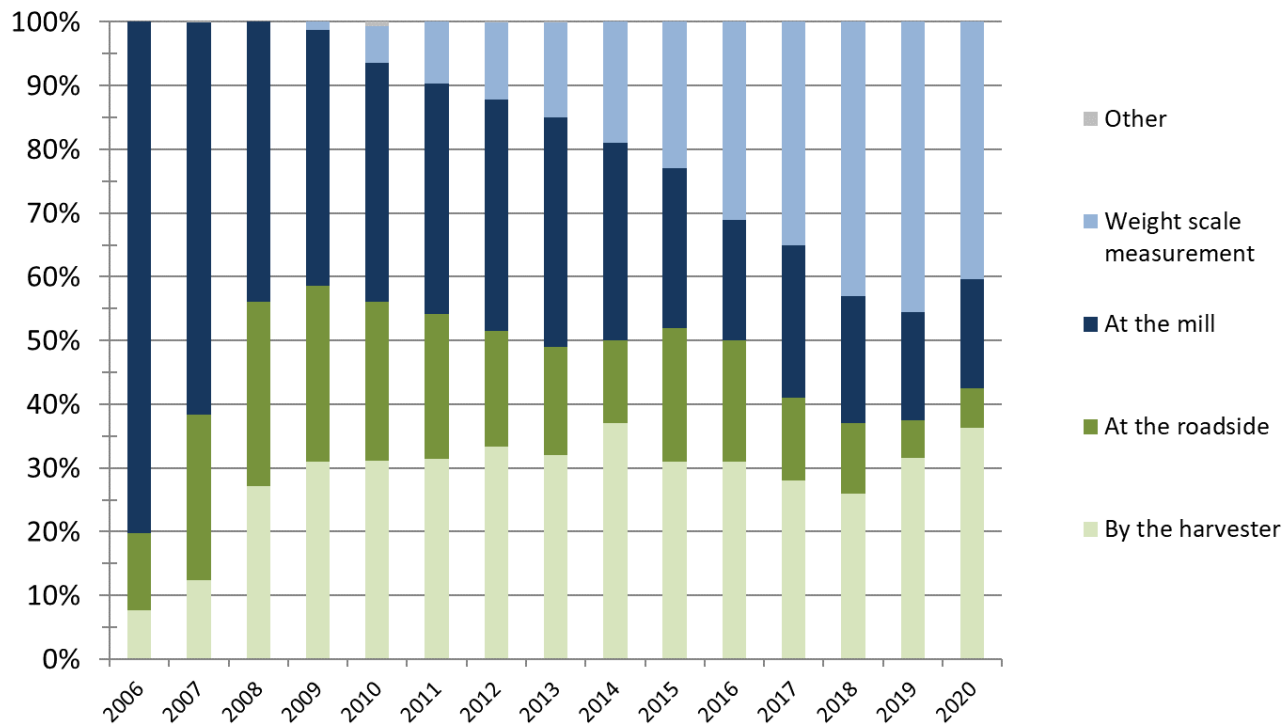
Proportions of different pulpwood measuring methods at the mills, 2007-2020



Proportions of different wood measuring methods in standing sales, 2006–2020



Proportions of different wood measuring methods in delivery sales, 2006–2020



Wood quantities and proportions of methods in the total commercial roundwood fellings in 2020

PROPORTION OF WOOD MEASURING METHODS IN 2020

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	34 224	1 867	36 090	85.0	36	79.3
At the roadside	13	322	335	0.0	6	0.7
At the mill	5 986	986	6 971	14.9	19	15.3
Weight scale measurement	53	2 075	2 128	0.1	40	4.7
Other	9	2	12	0.0	0	0.0
Total	40 284	5 252	45 536	100.0	100.0	100.0



Proportions of wood measuring methods, 2006–2020

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

Year	Proportion of method, %					Total
	By the harvester	At the roadside	At the mill	Weight scale measurement	Other	
2006	81	0	19	0	0	100
2007	82	1	17	0	0	100
2008	83	1	16	0	0	100
2009	81	1	18	0	0	100
2010	82	0	17	1	0	100
2011	82	0	17	1	0	100
2012	82	0	18	1	0	100
2013	82	0	17	1	0	100
2014	82	0	17	1	0	100
2015	82	0	17	1	0	100
2016	83	0	16	1	0	100
2017	84	0	15	1	0	100
2018	85	0	15	0	0	100
2019	86	0	14	0	0	100
2020	85	0	15	0	0	100

Proportions of wood measuring methods, 2006–2020

DELIVERY SALES OF PRIVATE OWNED FORESTS

Year	Proportion of method, %				Other	Total
	By the harvester	At the roadside	At the mill	Weight scale measurement		
2006	8	12	80	-	0	100
2007	12	26	62	-	0	100
2008	27	29	44	-	0	100
2009	31	28	40	1	0	100
2010	31	25	37	6	1	100
2011	31	23	36	10	0	100
2012	33	18	36	12	0	100
2013	32	17	36	15	0	100
2014	37	13	31	19	0	100
2015	31	21	25	23	0	100
2016	31	19	19	31	0	100
2017	28	13	24	35	0	100
2018	26	11	20	43	0	100
2019	31	6	17	45	0	100
2020	36	6	17	40	0	100