

# National Exotic Forest Description

as at 1 April 2023



New Zealand  
FARM FORESTRY ASSOCIATION



## Acknowledgements

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## Enquiries

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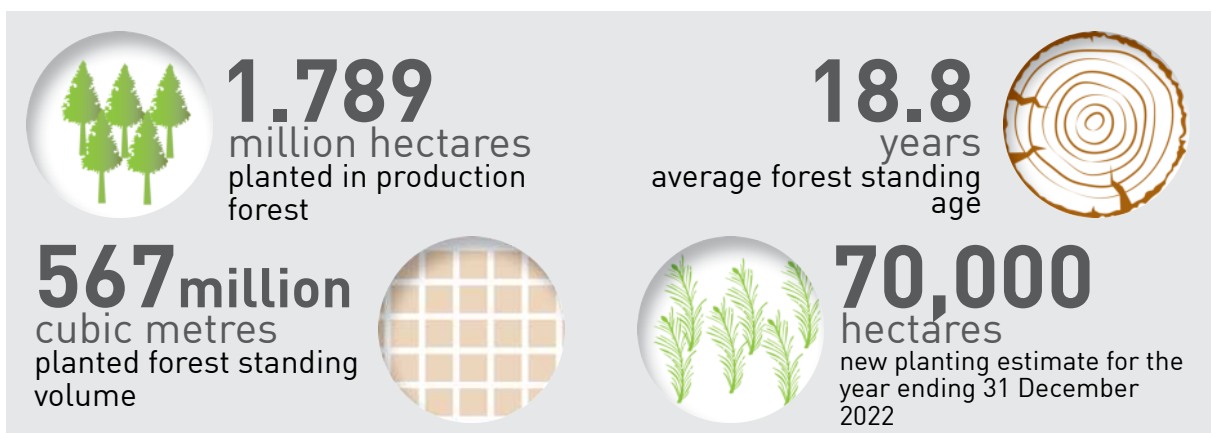
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# Key facts as at 1 April 2023



New Zealand's net stocked planted production forest covered an estimated 1.789 million hectares as at 1 April 2023.

The total planted forest standing volume was estimated to be 567 million cubic metres with an average age (area weighted) of 18.8 years.

The provisional new planting estimate for the year ending 31 December 2022 is 70,000 hectares. This number may be revised in the 2024 NEFD.

Table 1 on the following page provides key national forestry statistics as at 1 April 2023, as well as the statistics for 2021 and 2022 for comparison.

The distribution of the forest area by annual age class is shown in Figure 1. The decrease in area as age increases beyond 28 years indicates harvesting. Of particular note is the large area of forest between 25 to 28 years old, planted between 1995 and 1998. This forest has begun reaching harvest age.

Figure 1: Forest area by annual age class<sup>1</sup>



Note

1. The area is shown for each age in single years up to 35 years. After this, age classes are aggregated.

Table 1: National exotic forest estate statistics

Area and standing volume statistics	As at 1 April 2021	As at 1 April 2022 published <sup>4</sup>	As at 1 April 2022 revised <sup>7</sup>	As at 1 April 2023
<b>Forest area</b>				
Net stocked area (ha)	1,739,990	1,757,451	1,757,471	1,788,799
Harvested area awaiting restocking (ha)	45,487	50,221	46,101	40,196
Total forest area	1,785,477	1,807,672	1,803,572	1,828,995
<b>Growth characteristics</b>				
Standing volume (000 m <sup>3</sup> )	529,305	549,385	547,243	567,421
Average standing volume (m <sup>3</sup> /ha)	304	313	311	317
Area-weighted average age (years)	18.3	18.6	18.6	18.8
<b>Area by species<sup>2</sup></b>				
Radiata pine (ha)	1,571,591	1,587,466	1,587,482	1,618,607
Douglas-fir (ha)	97,585	100,105	100,108	97,003
Cypress species (ha)	9,970	9,057	9,057	9,572
Other softwoods (ha)	24,028	25,290	25,290	27,032
Eucalypts (ha)	21,950	22,035	22,036	22,195
Other hardwoods (ha)	14,866	13,498	13,498	14,390
<b>Radiata pine area by tending regime</b>				
Pruned with production thinning (ha)	136,901	137,640	137,642	139,513
Pruned without production thinning (ha)	520,965	509,959	509,968	524,533
Unpruned with production thinning (ha)	58,122	66,202	66,202	71,737
Unpruned without production thinning (ha)	855,603	873,666	873,670	882,824
<b>Planting statistics</b>				
	Year ended 31 December 2020	Year ended 31 December 2021 p	Year ended 31 December 2021 r	Year ended 31 December 2022
<b>New planting<sup>3</sup></b>				
Total estimated new planting (ha)	34,000	45,000	45,000	70,000
Restocking (ha)	42,907	40,424	40,415	32,279
<b>Harvesting statistics<sup>5</sup></b>				
	Year ended 31 March 2021	Year ended 31 March 2022 p	Year ended 31 March 2022 r	Year ended 31 March 2023
<b>Harvesting</b>				
Estimated planted forest roundwood removal (000 m <sup>3</sup> ) <sup>6</sup>	34,264	34,401	34,401	33,700
Average harvest age - radiata pine (years) <sup>8</sup>	25.4	27.8	29.0	28.0

**Notes**

1. In this report, the area of harvested land that was recorded as awaiting a land use decision has been reported in the area awaiting replanting.
2. Individual entries may not add to totals due to rounding. Detailed breakdowns can be found in the Forest area by age class and wood supply region section, page 19.
3. The forestry statistics released in this report, and in particular, new planting estimates, may differ from those produced in the Agricultural Production Survey by Statistics New Zealand. These surveys use different survey frames and designs. See Appendix 5 for the method used to estimate new planting for the NEFD.
4. The 2023 survey sought data from owners with 1000 hectares of forest or more.
5. All standing and harvest volumes are reported as recoverable volumes (see Appendix 1).
6. Estimate from the annual roundwood removal statistics.
7. The net stocked area for 2022 has not been revised following no updated returns from respondents and no corrections of data issues.
8. Average harvest age data is impacted by the number of trees older than 25 years reported in the dataset and therefore should be used with caution.



# Overview of the NEFD

## What is the NEFD?

The National Exotic Forest Description (NEFD) is a Tier 1 Statistic<sup>1</sup> with the purpose of maintaining an authoritative, high quality database of New Zealand's production forests. It has been published annually since 1985 and gives information on New Zealand's exotic planted production forest estate (i.e. exotic forest planted with the primary intention of producing wood or wood fibre).

## What does the NEFD report on?

This report provides information that describes New Zealand's planted production forests. It consists of summarised statistics on:

- exotic planted production forest area by age class and territorial authority for key exotic species. For radiata pine, the area by age class tables are also provided by silviculture regime;
- standing volume (see Appendix 1);
- national harvesting volume estimates;
- planting estimates for forests larger than 40 ha; and
- forest ownership for forests larger than 40 ha.

## Who participates in the NEFD?

The NEFD surveys known forest owners and managers with at least 40 hectares of planted exotic production forest. The survey is run on a two-yearly cycle, where all known forest owners with 40 or more hectares of forest are surveyed one year (census), and the next year only owners with more than 1,000 hectares (sample).

A sample survey was run in 2023. Questionnaires were sent to all known forest owners and managers with at least 1,000 hectares of planted production forest. Around 102 forests were included in the survey with an achieved area weighted response rate of 89 percent.

## Information on forests smaller than 40 hectares

The area for owners with less than 40 hectares is estimated using the 2004 AgriQuality Small Forest Growers (<40 ha) Survey, an imputation based on new planting from 1992-2006, and forests previously surveyed in the NEFD that have dropped below the 40 hectare area cut-off. The estimate is used because of limitations and practicalities of surveying the large numbers of small growers. More information on the methods used for these estimates and the accuracy constraints is in Appendix 5.

## Reliability of Data

The reliability of data decreases as forest sizes reduce. Forest owners of larger forests (1,000 or more hectares) generally have the systems to provide higher quality data compared to those with small forestry blocks. Work to improve the reliability of the NEFD data is underway. Resulting improvements to the data will be published in future NEFD reports.

Table 2: Survey frequency and data quality by forest size

Forest ownership size (hectares)	Survey Frequency	Data quality
1,000ha or more	Annually	Good
999ha to 40ha	Every two years	Medium
Below 40ha	Infrequently	Low

For a detailed description of the methodology employed to collect the data, ensure reliability and to calculate imputations, please refer to Appendix 5.

## Other sources of information

In addition to the data collected in the surveys, the NEFD uses other government data sources where appropriate. For example, Emission Trading Scheme area and species data can be used instead of surveying with owner permission, and log and roundwood data collected by MPI provides a comparison for harvest volumes. For further information, please refer to the NEFD technical document (Appendix 5). In addition, roundwood removal data is validated against Forest Growers Levy data.

## Who uses the NEFD?

The data collected in the NEFD is used to inform the forestry sector, the wood processing industry, and central and local government policymakers and planners about New Zealand's planted forest estate. The information also assists with international reporting obligations, and is the foundation for creating wood availability forecasts which identify wood processing opportunities in New Zealand.

## Governance of the NEFD

Collection and publishing of NEFD information is overseen by the NEFD Steering Committee – a Forest Industry Committee with members nominated by the New Zealand Forest Owners Association, the New Zealand Farm Forestry Association, and the Ministry for Primary Industries. A full list of this committee can be found in Appendix 3.

<sup>1</sup> Tier 1 statistics are the most important statistics in New Zealand, essential to understand how well New Zealand is performing and to inform critical decisions. For more information, see: [www.data.govt.nz/catalogue-guide/showcase/official-statistics/](http://www.data.govt.nz/catalogue-guide/showcase/official-statistics/)



## What are New Zealand's wood supply regions?

The NEFD groups the sixty-six District and City Councils within New Zealand into nine wood supply regions. These regions have broadly similar growth patterns for radiata pine, representing wood supply and processing catchments. The wood supply regions are: Northland, Central North Island, East Coast, Hawke's Bay, Southern North Island, Nelson and Marlborough, West Coast, Canterbury, and Otago and Southland (see Figure 2 on page 3).

## What Planting and Harvesting information is collected?

Planting data is collected as at 31 December<sup>2</sup> on the area of replanting, afforestation, and land cover before afforestation. A supplementary survey of large forest owners and known afforesters is run at the end of a survey period to provide a provisional estimate of afforestation to the current year. In addition, the NEFD survey collects some data on harvesting from forests over larger than 40 hectares including the average age of clear-felled radiata pine. NEFD harvesting information is combined with other MPI data sources to provide national harvest estimates.

## Yield tables and Wood Availability Forecasts

The yield tables are produced periodically, based on data provided by forest owners and managers of larger forests, as part of the wood availability forecasts.

The yield tables contain yield aggregates of the same species group and tending regime, which are located in the same wood supply region. The yield tables contain the total recoverable volume by three log type volumes (pruned logs, unpruned logs and pulp logs), together with any thinning volume, by annual age class. Each yield table is labelled with a code that defines the wood supply region, species group and tending regime.

Yield tables and Wood Availability Forecasts for all regions and New Zealand are available on the Te Uru Rākau website (see below).

## Online resources

An electronic copy of this report is available on the New Zealand Ministry for Primary Industries website: <https://www.teururakau.govt.nz/news-and-resources/open-data-and-forecasting/forestry/new-zealands-forests/>

The Te Uru Rākau website also has electronic copies of:

- the tables from the report;
- report and tables from the Wood Availability Forecasts; and
- yield tables.

For specialised requests please contact [nefd@mpi.govt.nz](mailto:nefd@mpi.govt.nz).

For reasons of confidentiality, data on the resources of individual forest growers will not be released without the prior written consent of the forest owner(s) concerned. Any other outputs will have standard confidentiality rules applied.

<sup>2</sup> 31 December is used as the year end as planting does not occur in January to March.

# Area, Species Distribution, Standing Volume and Ownership of plantation forests in New Zealand

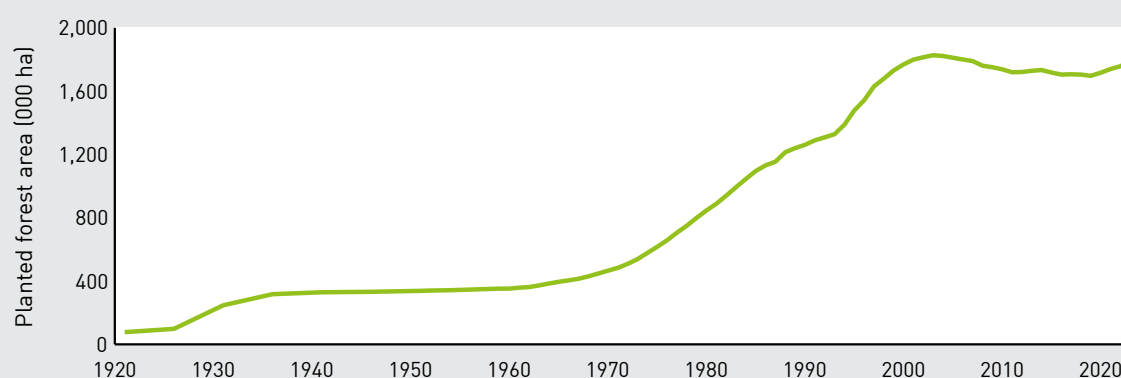
## Area

As at 1 April 2023, the total net stocked area of planted forest was estimated to be 1.789 million hectares (Figure 3, Table 3). Including the area of land currently awaiting replanting after harvesting (40,196 hectares), makes the estimated total forest area 1.83 million hectares.

The 2022 net stocked forest area has had no revisions required. This is due to there being no changes in returns from respondents or amendments to historical data. Further details can be found in the NEFD online tables.

The area reported for 2023 was an increase of 31,328 hectares (1.8 percent) from the 2022 net stocked area of 1.757 million hectares. Year-on-year changes in the net stocked area can be caused by new information, updated returns from respondents, and changes in land use decisions by forest land owners.

Figure 3: Changes in planted production forest area in New Zealand



Note

1. Net stocked area is displayed in the Figure, area awaiting restocking is not included. For total production forest area, see Table 3.

Table 3: Total Forest Area (hectares), as at 1 April

	2018	2019	2020	2021	2022r	2023
Area awaiting replanting <sup>1</sup>	44,701	49,194	50,030	45,487	46,101	40,196
Net stocked area	1,704,566	1,696,667	1,716,594	1,739,990	1,757,471	1,788,799
Total forest area	1,749,267	1,745,861	1,766,624	1,785,477	1,803,572	1,828,995

### Notes

1. The area awaiting replanting does not include forests under 40 hectares, so please use this metric with caution.

The estimated known area of radiata pine increased by 31,125 hectares between 2022 and 2023. The increase was due to re-mapping of existing forestry (including from changes in ownership), planting and the correction of anomalies in survey responses. Douglas-fir area decreased by 3,105 hectares between 2022 and 2023. Other hardwoods increased by 896 hectares between 2022 and 2023. Other softwoods and cypress species showed small decreases, while eucalypts showed minor increases, consistent with year-on-year variation.

Table 4: Forest area by annual age class as at 1 April 2023

Age	Area (ha)	Age	Area (ha)	Age	Area (ha)
1	41,366	28	79,434	55	411
2	48,754	29	89,039	56	246
3	56,956	30	54,356	57	434
4	61,155	31	41,842	58	449
5	46,032	32	11,829	59	738
6	42,779	33	11,319	60	160
7	42,835	34	9,150	61	139
8	43,870	35	6,219	62	56
9	43,728	36	5,780	63	324
10	49,140	37	8,756	64	41
11	60,300	38	9,728	65	90
12	54,705	39	7,270	66	17
13	41,319	40	6,329	67	77
14	35,535	41	4,691	68	25
15	35,264	42	4,272	69	96
16	35,798	43	4,905	70	37
17	33,569	44	3,335	71	108
18	37,810	45	3,859	72	20
19	46,336	46	2,107	73	390
20	56,369	47	1,799	74	307
21	58,657	48	1,955	75	49
22	64,656	49	1,369	76	43
23	65,834	50	955	77	17
24	65,123	51	819	78	18
25	71,614	52	555	79	64
26	79,510	53	1,055	80+	398
27	91,596	54	708		

**Note**

1. This table excludes afforestation that was not directly captured by the NEFD survey.

## Area Distribution by wood supply region

Figure 4: Distribution of forest area by wood supply region, as at 1 April 2023

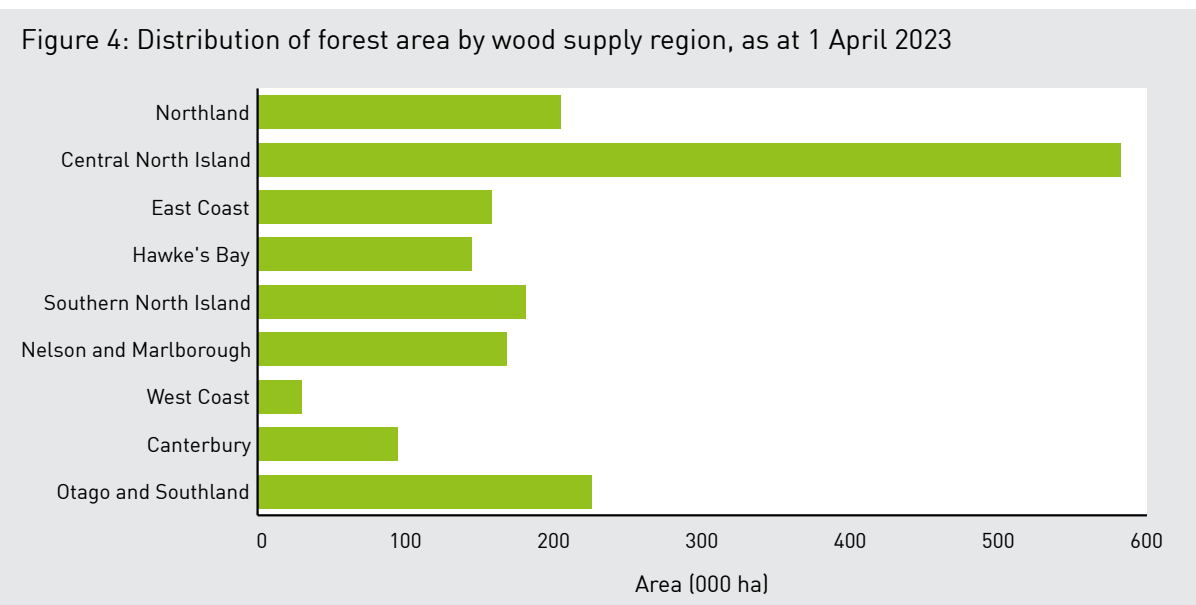


Figure 5: Forest area by age class and wood supply region, as at 1 April 2023

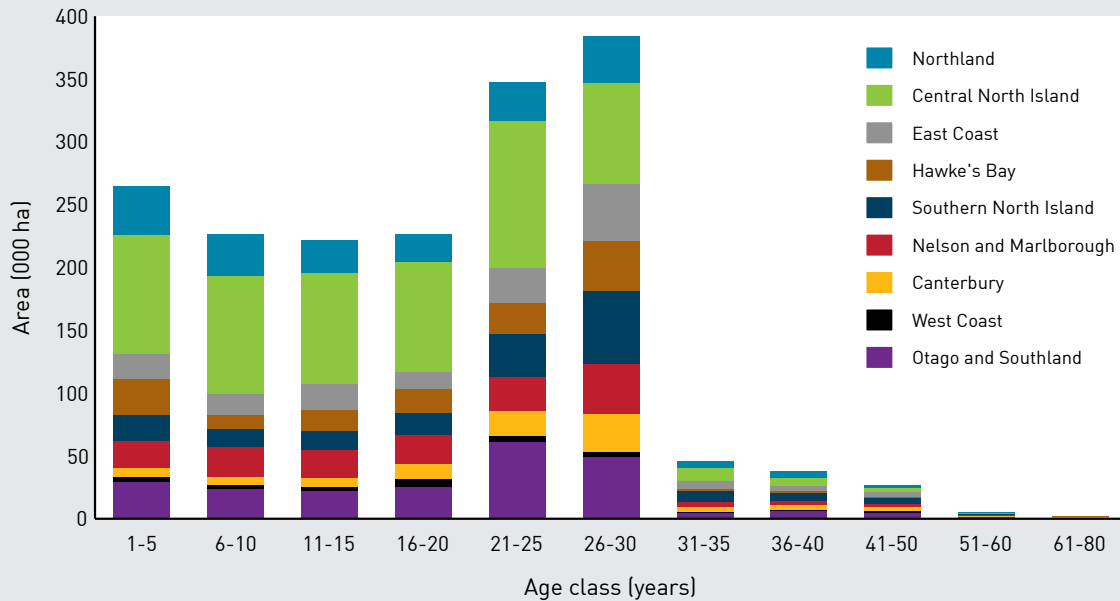
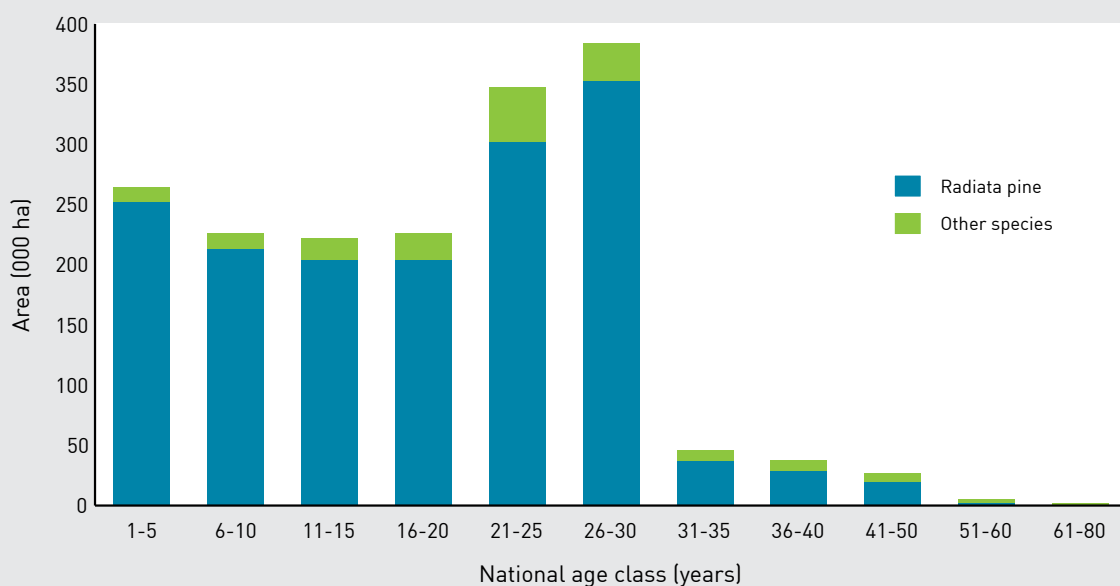


Figure 5 shows the distribution of forests across the nine wood supply regions in New Zealand by age class. The Central North Island has the largest area of forest across all age class groups. It accounts for around 35 percent (93,970 hectares) of the total forest in age class 1 to 5 years, and 33 percent (582,220 hectares) across all age classes.

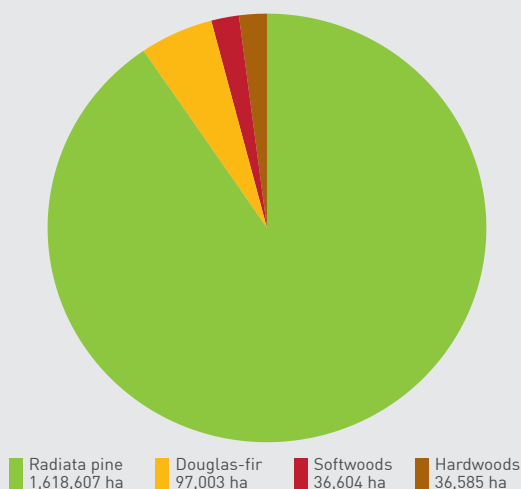
## Species distribution by age classes

Figure 6: Forest area by age class and species, as at 1 April 2023



As seen in Figures 6 and 7, radiata pine is the dominant species, making up 90 percent of the planted production forest area in New Zealand. The proportion of Douglas-fir is higher in Otago and Southland (25 percent) and Canterbury (17 percent) compared to the national distribution (5 percent) as growing conditions are more suitable.

Figure 7: Species Distribution, as at 1 April 2023



Note: Softwoods includes cypress species, Hardwoods includes eucalypts.

Figure 8: Radiata pine by Tending Regime, as at 1 April 2023

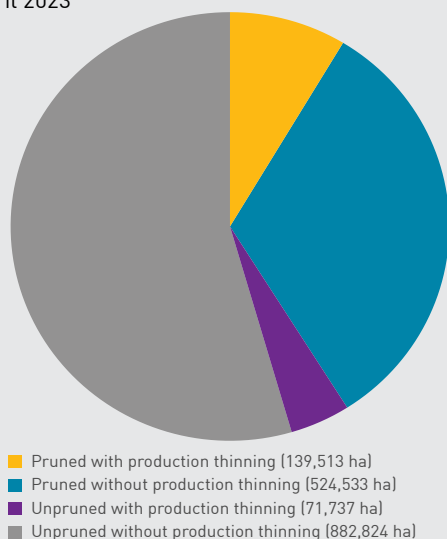
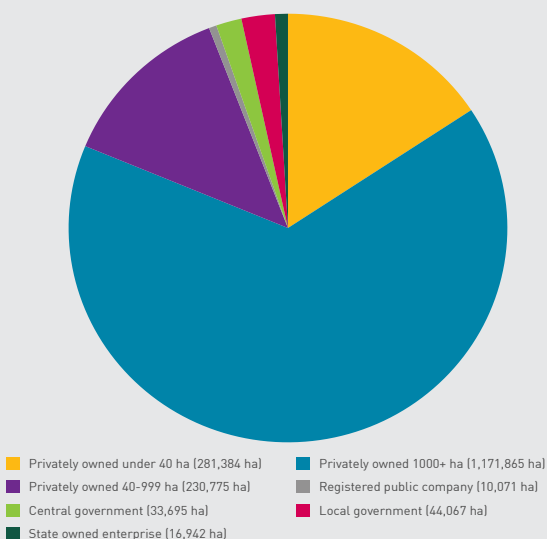


Figure 9: Forest ownership, as at 1 April 2023



## Silviculture

Figure 8 indicates that about 41 percent (664,046 hectares) of the radiata pine planted forest estate is, or is expected to be, pruned to a height of at least four metres. This is an increase from the previous year, and continuation of the general trend away from pruning.

The area of production forest that is, or is expected to be, thinned is unchanged from last year at 13.1 percent of the radiata pine planted forest (Figure 8). The proportion of production thinned forest is slightly higher in the North Island, with 14.2 percent (172,715 ha) production thinned, than in the South Island where 9.7 percent (38,535 ha) is production thinned. Generally, the area of production thinned forest has declined over the past decade. The area of forest that is unpruned with no production thinning now makes up 54.5 percent of the forest estate (882,824 ha), showing the trend towards minimally tended forests.

## Standing Volume

The standing volume by Territorial Authority at 1 April 2023 is presented in Table 5 (see Appendix 1 for a definition of standing volume).

## Ownership

In 2023, there were around 1,800 owners with more than 40 hectares of forests. The vast majority (94 percent) owned between 40 and 999 hectares of forest, making up 15 percent of the National Forest Estate in 2023 (Table 6). In contrast, the 6 percent of owners with 1,000 or more hectares accounted for 70 percent of total exotic plantation forest estate in New Zealand.

The number of owners with fewer than 40 hectares is difficult to estimate, but is likely to be over 10,000. It is estimated these owners represent around 1 percent of total forest area. 1.7 million hectares, or 94 percent of New Zealand's exotic plantation forests, were privately owned as at 1 April 2023 (Figure 9).

### Notes

- The area of forest owned or managed by major forest owners can be found in the New Zealand Forest Industry booklet, Facts & Figures 2022/23, page 13 (see the New Zealand Forest Owners Association website for more information).
- Ownership is based solely on the ownership of the forest irrespective of the ownership of the land.
- Figure represents percentage of net stocked planted production forest area by ownership type.
- Significant changes in forest ownership have occurred since 2003, resulting in large areas of forest previously owned by public companies now being privately owned.
- The legal entities included in the "Privately owned" category are private companies, partnerships, individuals and trusts, which includes Māori trusts and incorporations.
- "Central Government" forests are predominantly Crown-owned forests on Māori lease-hold land. These forests are managed by Crown Forestry.

Table 5: Area, standing volume, and area-weighted average age by territorial authority as at 1 April 2023

Territorial authority	Area (ha)	Standing volume (000 m <sup>3</sup> )	Area-weighted average age (years)
<b>Northland wood supply region</b>			
Far North District	91,779	20,306	16.7
Whangarei District	33,814	7,758	17.2
Kaipara District	40,821	8,026	14.9
Auckland Council	38,029	11,584	20.9
<b>Region total</b>	<b>204,443</b>	<b>47,674</b>	<b>17.2</b>
<b>Central North Island wood supply region</b>			
Thames-Coromandel District	23,751	7,920	17.6
Hauraki District	3,585	1,774	22.7
Waikato District	17,930	8,030	20.9
Matamata-Piako District	1,678	695	20.8
Hamilton City	14	9	27.4
Tauranga District	106	65	28.3
Western Bay of Plenty District	21,968	8,079	18.6
Rotorua District	52,664	17,156	17.4
Kawerau District	576	34	6.3
Whakatane District	108,499	30,693	15.5
Opotiki District	13,591	3,759	16.1
Waipa District	2,491	1,225	23.1
Otorohanga District	6,181	2,631	20.2
Waitomo District	28,181	12,173	21.0
Ruapehu District	56,843	20,532	18.0
South Waikato District	60,438	19,408	16.3
Taupo District	183,724	48,584	15.0
<b>Region total</b>	<b>582,220</b>	<b>182,768</b>	<b>16.6</b>
<b>East Coast wood supply region</b>			
Gisborne District	158,232	60,644	20.2
<b>Region total</b>	<b>158,232</b>	<b>60,644</b>	<b>20.2</b>
<b>Hawkes Bay wood supply region</b>			
Wairoa District	62,479	21,915	17.2
Hastings District	64,714	23,290	17.8
Napier City	26	17	31.8
Central Hawkes Bay District	17,673	9,218	23.2
<b>Region total</b>	<b>144,892</b>	<b>54,441</b>	<b>18.2</b>
<b>Southern North Island wood supply region</b>			
New Plymouth District	4,690	2,006	22.7
Stratford District	6,774	2,825	22.8
South Taranaki District	10,023	5,068	25.5
Whanganui District	24,311	11,046	23.3
Rangitikei District	21,779	10,074	23.7
Manawatu District	7,061	3,557	26.5
Kapiti Coast District	3,073	1,626	27.3
Upper Hutt City	4,859	2,171	24.0
Porirua City	1,214	766	31.3
Wellington City	581	306	27.2
Lower Hutt City	229	160	35.4
Palmerston North City	2,975	960	18.6
Tararua District	21,373	7,618	19.7
Masterton District	38,620	13,430	19.8
Horowhenua District	8,976	3,816	22.3
Carterton District	14,247	5,673	21.6
South Wairarapa District	10,462	4,151	21.7
<b>Region total</b>	<b>181,247</b>	<b>75,252</b>	<b>22.2</b>
<b>North Island total</b>	<b>1,271,034</b>	<b>420,780</b>	<b>18.1</b>

Territorial authority	Area (ha)	Standing volume (000 m <sup>3</sup> )	Area-weighted average age (years)
<b>Nelson and Marlborough wood supply region</b>			
Nelson City	8,730	2,507	17.2
Tasman District	82,390	24,780	17.9
Marlborough District	75,000	26,637	20.4
Kaikoura District	1,852	672	19.6
<b>Region total</b>	<b>167,972</b>	<b>54,596</b>	<b>19.0</b>
<b>Canterbury wood supply region</b>			
Hurunui District	34,509	9,901	21.7
Waimakariri District	8,300	3,007	24.8
Christchurch City	9,902	3,807	26.1
Selwyn District	10,370	3,104	22.0
Ashburton District	3,075	908	23.6
Timaru District	11,952	3,113	22.8
Mackenzie District	4,936	1,643	27.4
Waimate District	11,656	3,253	23.2
<b>Region total</b>	<b>94,700</b>	<b>28,736</b>	<b>23.1</b>
<b>West Coast wood supply region</b>			
Buller District	4,320	943	20.1
Grey District	13,210	2,656	17.6
Westland District	12,241	3,620	22.8
<b>Region total</b>	<b>29,771</b>	<b>7,219</b>	<b>20.1</b>
<b>Otago and Southland wood supply region</b>			
Waitaki District	24,286	5,999	19.6
Dunedin City	16,416	3,816	18.1
Queenstown-Lakes District	718	310	34.8
Central Otago District	7,412	1,914	23.9
Clutha District	89,423	21,543	19.6
Gore District	4,540	1,537	23.9
Southland District	81,627	20,726	20.2
Invercargill City	900	246	19.1
<b>Region total</b>	<b>225,322</b>	<b>56,091</b>	<b>20.0</b>
<b>South Island total</b>	<b>517,765</b>	<b>146,641</b>	<b>20.2</b>
<b>New Zealand total</b>	<b>1,788,799</b>	<b>567,421</b>	<b>18.8</b>

Table 6: Total area represented by each data source in the 2023 NEFD database

Data source	Net stocked area (000 ha)	Proportion of total area (%)	Number of owners at national level
<b>Data collected in the NEFD survey</b>			
10,000 hectares+	1,026	57%	28
1,000-9,999 hectares	221	12%	70
40-999 hectares	260	15%	1,671
<b>NEFD Survey total<sup>1</sup></b>	<b>1,507</b>	<b>84%</b>	<b>1,769</b>
NEFD resource <40 hectares	13	1%	
New planting imputation (1992-2006) <sup>2</sup>	203	11%	
2004 AgriQuality small forest growers (<40 hectares) <sup>3</sup>	67	4%	
<b>Total</b>	<b>1,789</b>	<b>100%</b>	

**Notes**

1. Data collected from NEFD survey only.
2. Adjustment made this year to the area of new forest planted between 1992 and 2006. New planting imputation is discussed in Appendix 5 (page 46).
3. Small Forest Grower Survey Report, AgriQuality New Zealand, April 2005

Table 7: Number of forest owners by national size class, as at 1 April 2023<sup>1</sup>

Wood Supply Region	40-99 ha	100-499 ha	500-999 ha	1,000-9,999 ha	10,000+ ha
Northland	127	88	14	10	4
Central North Island	114	111	21	24	8
East Coast	46	43	9	16	3
Hawkes Bay	50	44	6	11	4
Southern North Island	199	166	20	13	3
Nelson and Marlborough	167	102	8	8	2
West Coast	5	5	2	1	1
Canterbury	71	78	3	7	1
Otago and Southland	136	79	12	15	5
<b>New Zealand total<sup>2</sup></b>	<b>894</b>	<b>694</b>	<b>83</b>	<b>70</b>	<b>28</b>

**Notes**

1. The Table shows the size class of the forest owner at a national level and the regions where the owner has forests located. This does not show the size of the forest at regional level.
2. The New Zealand totals do not equal the sum of the wood supply regions because some owners have forests in more than one region. This is particularly the case for owners in the 1,000-9,000 hectare and 10,000+ hectare size classes.

Table 8: Forest area by forest owner national size class, as at 1 April 2023

Wood Supply Region	< 40 ha	40-99 ha	100-499 ha	500-999 ha	1,000-9,999 ha	10,000+ ha	Total ha
Northland	35,503	8,316	18,355	9,692	41,034	91,543	204,443
Central North Island	57,813	7,057	24,658	16,054	90,169	386,469	582,220
East Coast	16,875	2,861	10,805	6,966	65,572	55,153	158,232
Hawkes Bay	22,088	3,203	9,278	4,302	26,507	79,514	144,892
Southern North Island	45,350	12,268	34,390	13,777	33,651	41,811	181,247
Nelson and Marlborough	25,136	10,543	19,006	5,584	22,681	85,022	167,972
West Coast	2,831	380	956	1,274	1,425	22,905	29,771
Canterbury	32,834	4,545	14,500	2,054	20,259	20,508	94,700
Otago and Southland	43,510	8,642	16,559	8,463	40,625	107,523	225,322
<b>New Zealand total</b>	<b>281,940</b>	<b>57,815</b>	<b>148,507</b>	<b>68,166</b>	<b>341,923</b>	<b>890,448</b>	<b>1,788,799</b>





# Harvesting

## An estimate of total harvest volumes for New Zealand

Along with NEFD harvest figures produced, the Ministry for Primary Industries also publishes Forestry Production Statistics (FPS) quarterly and annually on the Te Uru Rākau website. These statistics, obtained from New Zealand wood processors, report on production and stock levels of various wood products and total roundwood removal. Note, in this report the total volume harvested is based on the FPS Roundwood data. This is due to the NEFD figures only representing forests larger than 40 hectares and hence is not representative of the national harvesting trends.

The estimated total harvest volume for the year ended 31 March 2023 was 33.7 million cubic metres, a 2 percent decrease on the previous year. The majority of this harvest volume came from radiata pine (94.6 percent), followed by Douglas-fir (4.9 percent). Other exotic species made up the remaining 0.5 percent.

Radiata pine is typically harvested when it is between 26 and 32 years old. The area-weighted average clear fell age of radiata pine has decreased from 29 years in 2022 to 28 years in the year ended 31 March 2023.

Of the radiata pine harvest, the proportion of recovered volume sold as pulp and chip logs has remained the same as 2022 at 15 percent. Approximately 10 percent of harvest was sold as pruned logs, a 2 percentage decrease from last year.

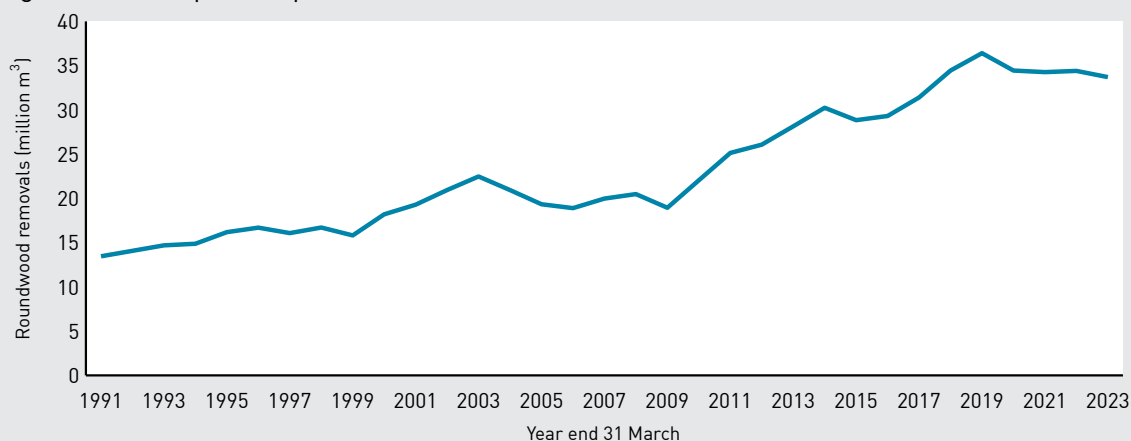
## Deforestation Intentions Survey

The Deforestation Intention Survey is commissioned by MPI to provide information on future rates of deforestation of planted production forest. The work is needed to assist with projecting New Zealand's likely greenhouse gas emissions over the second commitment period of the Kyoto Protocol and beyond under New Zealand's Paris agreement commitments. This information is also needed to inform future policy development. The latest report can be found on the Te Uru Rākau website: <https://www.teururakau.govt.nz/news-and-resources/open-data-and-forecasting/forestry/new-zealands-forests/>

## Wood Availability Forecasts

Regional and national wood availability forecasts are prepared by the industry and MPI under the NEFD work programme. They apply a range of harvesting scenarios and other factors that show potential volumes of logs that may be harvested by large and small-scale forest owners over the next 30 years. These forecasts are available on the Te Uru Rākau website: <https://www.teururakau.govt.nz/news-and-resources/open-data-and-forecasting/forestry/new-zealands-forests/>

Figure 10: Total planted production forest roundwood removals<sup>1</sup>



1. Harvest volumes are based on MPI roundwood removal figures

# Planting

We estimate 100,000 ha of total planting occurred during the year to December 2022, an increase on previous years. Approximately 40,196 hectares of previously harvested forest was awaiting either replanting or a land use decision as at 1 April 2023 (Figure 12). This is a decrease of around 5,900 hectares on the previous year. The largest increase was for the Nelson and Marlborough wood supply region. The other regions showed typical levels of year-on-year variability, both increases and decreases.

Figure 11: Total planted area, year ending 31 December<sup>1,2</sup>

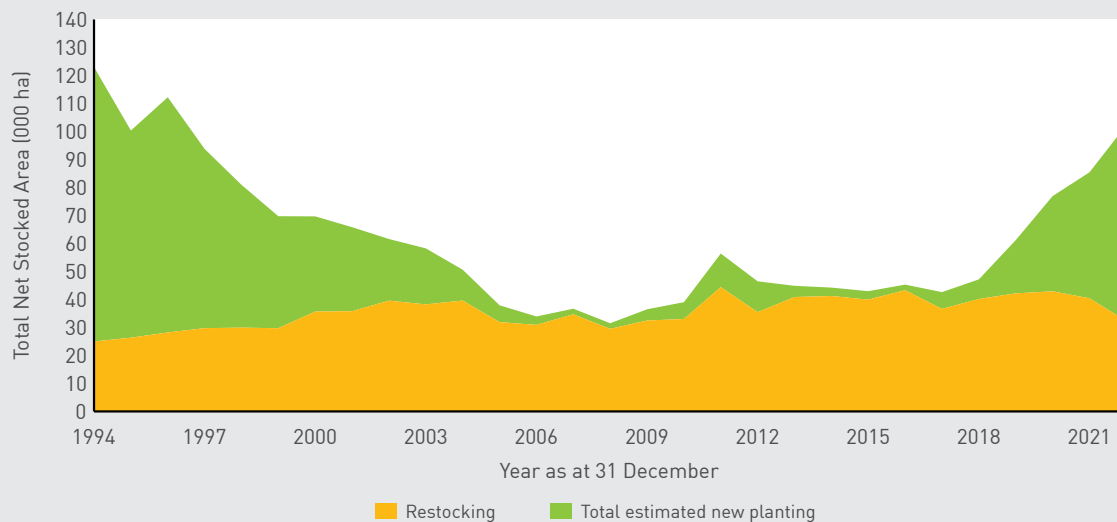
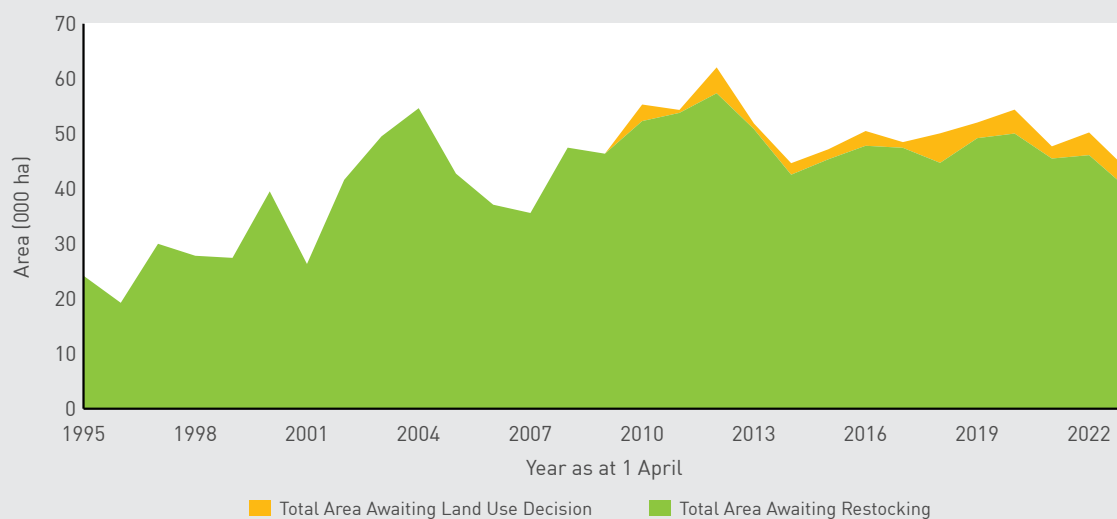


Figure 12: Harvested forest awaiting either replanting or a land use decision, as at 1 April 2023

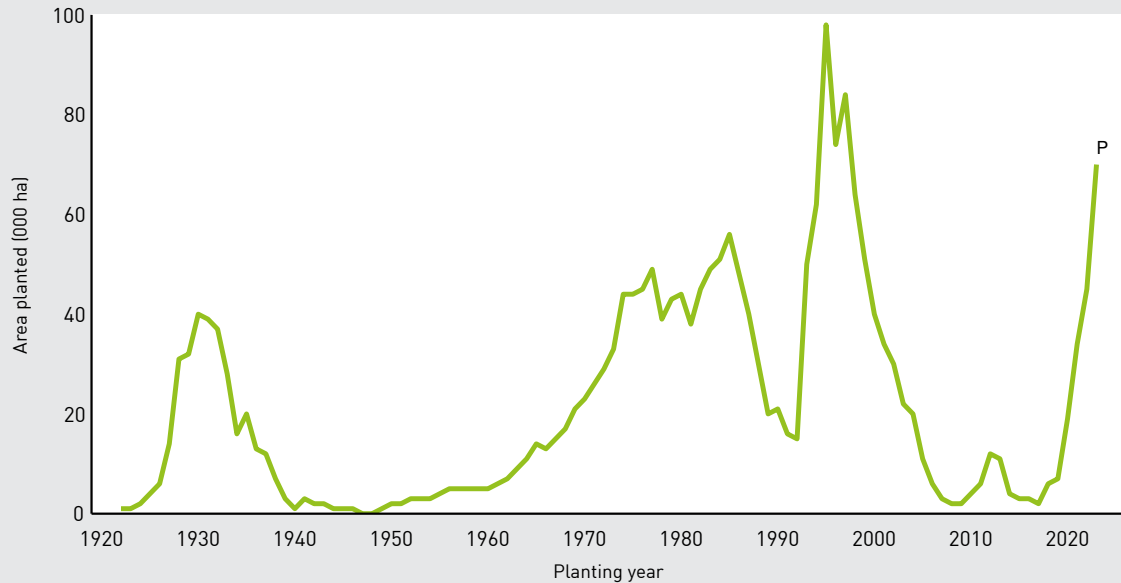


## New planting

New planting to December 2022 is estimated at 70,000 hectares, based on a survey of large forest owners and the amount established by smaller forest owners under Te Uru Rākau forestry schemes (Figure 13).

The land cover prior to new planting is presented in Table 9. Due to the small area of new planting in recent years and the influence of a small number of forest owners undertaking new planting, proportions of land cover types prior to planting may differ markedly between years and are not necessarily indicative of future trends.

Figure 13: New Land Planted in Production Forest in New Zealand



Sources

Until 1987, the statistics were compiled by the New Zealand Forest Service. The figures for 1988 to 1991 are estimates from NEFD surveys. The figures from 1992 onwards are based on nursery surveys undertaken by the Ministry for Primary Industries and predecessor agencies which are reviewed when NEFD survey data are received and revised as appropriate.

Table 9: Land cover prior to new planting, year ending December

Calendar years	Improved pasture <sup>1</sup> (%)	Unimproved pasture <sup>2</sup> (%)	Other woody vegetation <sup>3</sup> (%)	Area of new planting (ha)
1994	49	35	16	98,000
1995	67	22	11	74,000
1996	36	50	14	84,000
1997	43	46	11	64,000
1998	44	47	9	51,000
1999	56	30	14	40,000
2000	52	31	17	34,000
2001	68	9	23	30,000
2002	31	49	19	22,000
2003	28	46	26	20,000
2004	18	46	37	11,000
2005	2	19	79	6,000
2006	2	35	62	3,000
2007	11	9	80	2,000
2008	57	2	41	2,000
2009	27	58	15	4,000
2010	64	29	6	6,000
2011	42	53	5	12,000
2012	61	32	7	11,000
2013	33	43	24	4,000
2014	13	79	8	3,000
2015	30	43	27	3,000
2016	1	63	36	2,000
2017	53	40	7	6,000
2018	60	20	19	7,000
2019	37	43	20	19,000
2020	44	54	2	34,000
2021	59	36	6	45,000
2022	55	41	4	70,000

**Notes**

1. Improved pasture - land that has been fertilised and contains improved pasture species.
2. Unimproved pasture - land not fertilised, with no improved pasture species sown.
3. Woody vegetation - land predominantly covered in bracken gorse, mānuka, kānuka, or other woody species.

## Nursery Survey

Along with planting information gathered in the NEFD, MPI also runs the annual 'Nursery Survey'. This report surveys commercial forest nurseries for tree stock sales information. It provides provisional estimates of tree stock sales and areas of commercial forest planted annually.

This report is published on Te Uru Rākau's website:  
<https://www.teururakau.govt.nz/news-and-resources/open-data-and-forecasting/forestry/new-zealands-forests/>





# Forest area by age class and wood supply region

The following presents net stocked area by region for all New Zealand plantation species: radiata pine, Douglas-fir, cypress species, other softwoods, eucalypt species, and other hardwoods.



Table 10: Area planted in all species by territorial authority, as at 1 April 2023

	All species											Total (ha)
	Age class (years)											
	1-5 Years (ha)	6-10 Years (ha)	11-15 Years (ha)	16-20 Years (ha)	21-25 Years (ha)	26-30 Years (ha)	31-35 Years (ha)	36-40 Years (ha)	41-50 Years (ha)	51-60 Years (ha)	61+ Year (ha)	
<b>Northland wood supply region</b>												
Far North District	17,799	16,577	14,771	9,422	11,004	13,987	3,363	3,613	1,089	146	8	91,779
Whangarei District	6,058	6,643	4,150	3,195	5,248	6,613	787	457	525	C	14	C
Kaipara District	12,507	7,528	2,857	3,047	5,438	7,763	1,096	326	222	24	13	40,821
Auckland Council	3,239	2,981	4,271	6,559	9,639	9,078	560	681	899	93	29	38,029
<b>Region total</b>	<b>39,603</b>	<b>33,729</b>	<b>26,049</b>	<b>22,223</b>	<b>31,329</b>	<b>37,441</b>	<b>5,806</b>	<b>5,077</b>	<b>2,735</b>	<b>C</b>	<b>64</b>	<b>C</b>
<b>Central North Island wood supply region</b>												
Thames-Coromandel District	2,344	3,595	4,882	4,816	3,728	2,657	244	1,027	381	27	50	23,751
Hauraki District	260	264	371	118	920	1,529	53	25	32	C	6	C
Waikato District	2,120	1,108	1,339	2,144	4,886	5,287	632	186	187	16	25	17,930
Matamata-Piako District	C	127	C	325	156	441	70	34	86	0	3	1,678
Hamilton City	C	0	0	0	C	0	C	1	0	0	0	C
Tauranga District	0	0	0	12	33	38	17	6	0	0	0	106
Western Bay of Plenty District	3,284	3,095	2,181	2,648	5,190	4,514	366	270	340	C	C	21,968
Rotorua District	8,470	6,371	7,938	9,407	11,550	6,288	1,245	360	688	C	C	52,664
Kawerau District	C	0	0	C	40	20	0	0	0	0	0	C
Whakatane District	20,087	17,288	19,928	14,731	23,700	10,340	C	779	259	42	C	108,499
Opotiki District	1,762	3,980	2,922	994	1,407	959	593	818	156	0	0	13,591
Waipa District	C	C	201	175	827	815	80	39	54	3	3	2,491
Otorohanga District	1,043	247	C	945	1,200	1,837	200	139	43	4	2	C
Waitomo District	2,931	614	4,449	4,186	5,826	9,048	518	418	188	3	0	28,181
Ruapehu District	9,423	8,635	7,502	2,974	10,996	14,381	1,163	1,331	412	C	C	12
South Waikato District	11,337	8,121	8,223	C	C	C	C	105	40	C	C	60,438
Taupo District	29,896	40,015	28,241	32,194	32,011	16,251	3,386	920	376	370	64	183,724
Franklin District	0	0	0	0	0	0	0	0	0	0	0	0
<b>Region total</b>	<b>93,970</b>	<b>C</b>	<b>88,876</b>	<b>87,767</b>	<b>116,724</b>	<b>C</b>	<b>10,124</b>	<b>6,458</b>	<b>3,242</b>	<b>683</b>	<b>550</b>	<b>582,220</b>
<b>East Coast wood supply region</b>												
Gisborne District	20,132	16,625	20,462	12,818	28,071	45,596	6,282	4,408	3,398	407	33	158,232
<b>Region total</b>	<b>20,132</b>	<b>16,625</b>	<b>20,462</b>	<b>12,818</b>	<b>28,071</b>	<b>45,596</b>	<b>6,282</b>	<b>4,408</b>	<b>3,398</b>	<b>407</b>	<b>33</b>	<b>158,232</b>
<b>Hawke's Bay wood supply region</b>												
Wairoa District	14,145	4,454	8,154	8,754	8,365	17,793	236	105	379	C	C	62,479
Hastings District	11,853	6,546	7,372	10,051	11,177	15,271	1,172	624	520	92	36	64,714
Napier City	C	0	0	0	0	13	0	12	0	0	0	C
Central Hawkes Bay District	2,279	355	1,119	999	4,795	6,444	605	522	431	50	74	17,673
<b>Region total</b>	<b>C</b>	<b>11,355</b>	<b>16,645</b>	<b>19,804</b>	<b>24,337</b>	<b>39,521</b>	<b>2,013</b>	<b>1,263</b>	<b>1,330</b>	<b>C</b>	<b>C</b>	<b>C</b>
<b>Southern North Island wood supply region</b>												
New Plymouth District	C	140	357	325	1,228	1,421	272	155	132	3	0	C
Stratford District	791	1,002	243	597	404	2,974	259	168	112	C	2	C
South Taranaki District	358	598	353	1,151	1,960	3,980	790	391	404	27	11	10,023
Whanganui District	1,153	1,756	2,008	2,896	4,735	10,066	1,079	284	216	38	80	24,311
Rangitikei District	1,797	429	1,716	1,962	5,980	8,299	437	355	506	C	61	C
Manawatu District	266	C	335	593	1,014	3,099	521	396	396	16	17	C
Kapiti Coast District	54	138	63	244	776	1,113	286	340	59	0	0	3,073
Upper Hutt City	C	C	C	672	974	908	383	287	248	40	51	4,859
Porirua City	C	C	C	129	32	413	288	171	117	C	0	1,214
Wellington City	C	0	C	8	80	291	98	27	2	0	0	581
Lower Hutt City	0	0	0	0	C	90	2	10	105	0	0	C
Palmerston North City	C	C	430	406	162	718	89	31	171	0	0	2,975
Tararua District	3,180	2,404	3,436	1,553	2,574	5,611	963	975	607	52	18	21,373
Masterton District	8,595	3,286	2,644	3,134	5,076	12,225	1,205	1,592	583	247	33	38,620
Horowhenua District	1,019	550	1,018	1,569	1,148	2,483	519	335	254	22	59	8,976
Carterton District	C	1,733	1,373	914	6,309	2,223	408	117	233	98	0	C
South Wairarapa District	1,565	831	827	980	2,119	2,797	703	252	345	36	7	10,462
<b>Region total</b>	<b>21,117</b>	<b>14,166</b>	<b>15,469</b>	<b>17,133</b>	<b>C</b>	<b>58,711</b>	<b>8,302</b>	<b>5,886</b>	<b>4,490</b>	<b>1,041</b>	<b>339</b>	<b>181,247</b>
<b>North Island total</b>	<b>203,100</b>	<b>169,384</b>	<b>167,501</b>	<b>159,745</b>	<b>235,054</b>	<b>261,586</b>	<b>32,527</b>	<b>23,092</b>	<b>15,195</b>	<b>2,741</b>	<b>1,109</b>	<b>1,271,034</b>



	All species Age class [years]											Total [ha]
	1-5 Years [ha]	6-10 Years [ha]	11-15 Years [ha]	16-20 Years [ha]	21-25 Years [ha]	26-30 Years [ha]	31-35 Years [ha]	36-40 Years [ha]	41-50 Years [ha]	51-60 Years [ha]	61+ Year [ha]	
<b>Nelson and Marlborough wood supply region</b>												
Nelson City	1,327	850	2,122	1,358	1,487	1,176	C	75	C	18	C	8,730
Tasman District	12,466	9,011	13,066	14,398	14,510	14,371	1,741	1,264	1,275	257	31	82,390
Marlborough District	6,902	13,632	7,198	7,584	10,732	22,798	2,120	2,453	1,351	191	39	75,000
Kaikoura District	C	C	C	47	191	725	16	25	87	C	2	1,852
<b>Region total</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>23,387</b>	<b>26,920</b>	<b>39,070</b>	<b>C</b>	<b>3,817</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>167,972</b>
<b>West Coast wood supply region</b>												
Buller District	C	C	C	C	314	600	47	175	656	14	C	4,320
Grey District	2,616	C	C	C	C	1,140	71	211	572	425	C	C
Westland District	C	C	C	C	2,108	2,365	C	907	558	73	0	12,241
<b>Region total</b>	<b>3,886</b>	<b>3,293</b>	<b>3,226</b>	<b>6,378</b>	<b>C</b>	<b>4,105</b>	<b>C</b>	<b>1,293</b>	<b>1,786</b>	<b>512</b>	<b>20</b>	<b>29,771</b>
<b>Canterbury wood supply region</b>												
Hurunui District	2,421	C	3,195	6,052	8,209	8,677	1,057	965	751	229	74	C
Waimakariri District	296	499	543	847	1,598	3,563	619	181	94	52	8	8,300
Christchurch City	344	694	324	636	1,572	5,066	415	484	308	18	41	9,902
Selwyn District	C	C	707	434	1,432	3,116	881	608	286	135	25	10,370
Ashburton District	C	C	C	342	498	829	224	139	118	36	57	3,075
Timaru District	C	C	539	2,085	2,661	2,967	670	603	435	51	49	11,952
Mackenzie District	235	81	316	383	927	2,078	218	279	215	102	102	4,936
Waimate District	C	C	C	975	3,006	4,248	339	330	217	50	40	11,656
Banks Peninsula District	0	0	0	0	0	0	0	0	0	0	0	0
<b>Region total</b>	<b>7,074</b>	<b>7,130</b>	<b>6,790</b>	<b>11,754</b>	<b>19,903</b>	<b>30,544</b>	<b>4,423</b>	<b>3,589</b>	<b>2,424</b>	<b>673</b>	<b>396</b>	<b>C</b>
<b>Otago and Southland wood supply region</b>												
Waitaki District	3,483	2,592	2,618	1,109	6,765	6,431	287	556	360	61	24	24,286
Dunedin City	2,190	C	2,937	807	1,323	3,357	651	736	639	16	C	16,416
Queenstown-Lakes District	0	0	C	14	71	188	137	180	109	9	7	C
Central Otago District	679	453	445	453	2,658	1,726	178	374	228	C	57	C
Clutha District	13,615	7,669	8,259	12,701	23,188	18,195	1,619	2,014	1,413	382	C	C
Gore District	C	0	C	88	2,133	1,433	90	34	57	49	5	4,540
Southland District	8,754	8,451	7,464	9,904	24,816	17,245	1,338	1,820	1,606	177	52	81,627
Invercargill City	C	278	C	43	80	208	82	10	20	C	0	900
<b>Region total</b>	<b>29,336</b>	<b>C</b>	<b>21,935</b>	<b>25,119</b>	<b>61,034</b>	<b>48,783</b>	<b>4,382</b>	<b>5,724</b>	<b>4,432</b>	<b>861</b>	<b>570</b>	<b>225,322</b>
<b>South Island total</b>	<b>61,624</b>	<b>57,127</b>	<b>54,366</b>	<b>66,638</b>	<b>112,448</b>	<b>122,502</b>	<b>13,378</b>	<b>14,423</b>	<b>11,647</b>	<b>2,544</b>	<b>1,068</b>	<b>517,765</b>
<b>New Zealand total</b>	<b>264,724</b>	<b>226,511</b>	<b>221,867</b>	<b>226,383</b>	<b>347,502</b>	<b>384,088</b>	<b>45,905</b>	<b>37,515</b>	<b>26,842</b>	<b>5,285</b>	<b>2,177</b>	<b>1,788,799</b>

Figure 14: Distribution of all species forest area by age class and island, as at 1 April 2023

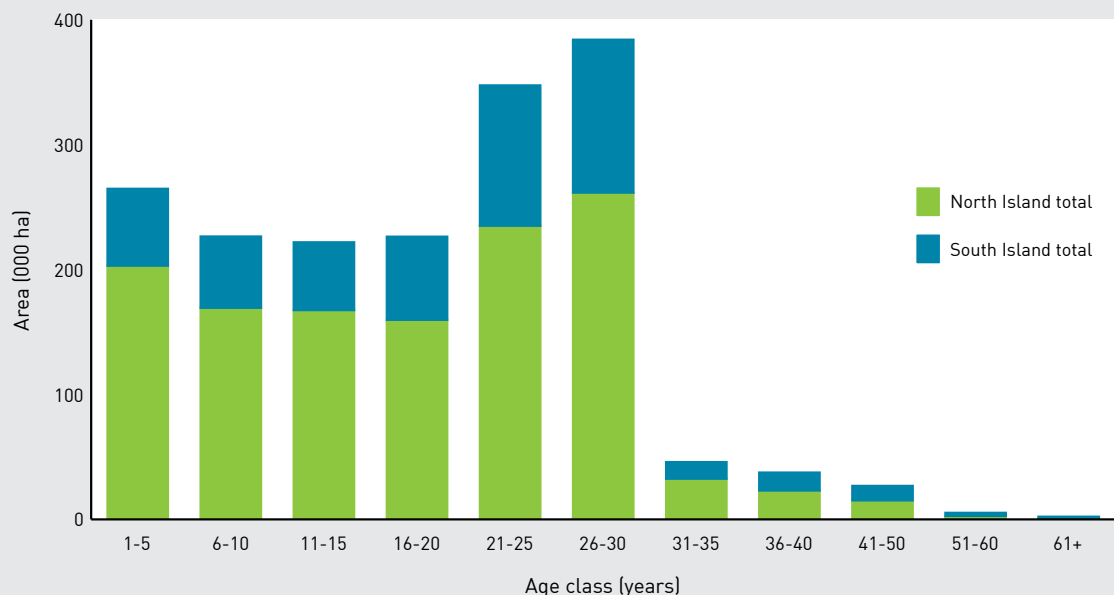


Table 11: Area planted in radiata pine by territorial authority, as at 1 April 2023

	Radiata pine Age class (years)											Total (ha)
	1-5 Years (ha)	6-10 Years (ha)	11-15 Years (ha)	16-20 Years (ha)	21-25 Years (ha)	26-30 Years (ha)	31-35 Years (ha)	36-40 Years (ha)	41-50 Years (ha)	51-60 Years (ha)	61+ Year (ha)	
<b>Northland wood supply region</b>												
Far North District	17,494	16,458	14,751	9,187	10,520	13,703	3,257	3,422	929	123	1	89,845
Whangarei District	5,913	6,614	4,149	3,176	5,053	6,315	720	435	443	C	3	C
Kaipara District	12,372	7,523	2,857	2,970	5,157	7,604	1,041	320	207	23	13	40,087
Auckland Council	C	2,974	4,217	6,426	9,393	8,702	469	595	808	87	10	C
<b>Region total</b>	<b>C</b>	<b>33,569</b>	<b>25,974</b>	<b>21,759</b>	<b>30,123</b>	<b>36,324</b>	<b>5,487</b>	<b>4,772</b>	<b>2,387</b>	<b>C</b>	<b>27</b>	<b>199,772</b>
<b>Central North Island wood supply region</b>												
Thames-Coromandel District	2,342	3,593	4,882	4,808	3,721	2,603	240	1,008	342	24	C	C
Hauraki District	260	C	C	104	893	1,512	53	21	32	C	0	3,442
Waikato District	2,117	1,101	1,331	2,066	4,816	5,226	594	165	186	15	C	C
Matamata-Piako District	C	126	C	316	129	423	67	32	86	0	0	1,615
Hamilton City	C	0	0	0	C	0	C	1	0	0	0	C
Tauranga District	0	0	0	10	26	36	16	5	0	0	0	93
Western Bay of Plenty District	3,272	3,072	2,155	2,529	4,902	4,306	333	196	293	C	0	C
Rotorua District	8,408	6,206	7,842	9,202	10,768	5,676	758	110	260	13	C	C
Kawerau District	C	0	0	C	C	C	0	0	0	0	0	C
Whakatane District	20,078	17,188	19,921	14,444	23,217	8,620	338	135	107	19	C	C
Opotiki District	1,762	3,972	2,915	990	1,392	951	589	814	156	0	0	13,541
Waipa District	C	C	201	134	667	748	76	36	45	3	2	2,155
Otorohanga District	994	229	77	897	1,132	1,771	166	99	43	0	0	5,408
Waitomo District	2,931	614	2,623	3,503	5,629	8,724	514	375	127	0	0	25,040
Ruapehu District	8,808	7,745	7,383	2,887	10,541	14,120	1,158	1,313	323	C	0	C
South Waikato District	10,431	C	C	C	C	C	C	76	27	C	C	C
Taupo District	29,554	38,733	26,975	30,975	30,657	15,327	1,774	402	127	58	36	174,618
Franklin District	0	0	0	0	0	0	0	0	0	0	0	0
<b>Region total</b>	<b>91,918</b>	<b>90,124</b>	<b>83,419</b>	<b>84,330</b>	<b>112,542</b>	<b>75,895</b>	<b>6,893</b>	<b>4,788</b>	<b>2,154</b>	<b>162</b>	<b>168</b>	<b>552,393</b>
<b>East Coast wood supply region</b>												
Gisborne District	19,807	16,202	19,370	12,321	27,500	45,130	6,132	4,225	3,145	C	6	C
<b>Region total</b>	<b>19,807</b>	<b>16,202</b>	<b>19,370</b>	<b>12,321</b>	<b>27,500</b>	<b>45,130</b>	<b>6,132</b>	<b>4,225</b>	<b>3,145</b>	<b>C</b>	<b>6</b>	<b>C</b>
<b>Hawke's Bay wood supply region</b>												
Wairoa District	13,071	4,186	7,842	8,463	8,194	17,739	216	95	350	15	0	60,171
Hastings District	11,098	6,443	7,154	9,979	11,045	15,062	1,024	525	451	59	25	62,865
Napier City	0	0	0	0	0	7	0	8	0	0	0	15
Central Hawkes Bay District	1,823	339	1,018	967	4,718	6,397	562	456	416	43	16	16,755
<b>Region total</b>	<b>25,992</b>	<b>10,968</b>	<b>16,014</b>	<b>19,409</b>	<b>23,957</b>	<b>39,205</b>	<b>1,802</b>	<b>1,084</b>	<b>1,217</b>	<b>117</b>	<b>41</b>	<b>139,806</b>
<b>Southern North Island wood supply region</b>												
New Plymouth District	C	108	201	224	841	1,378	257	148	126	1	0	C
Stratford District	749	476	234	583	386	2,914	258	150	63	0	1	5,814
South Taranaki District	333	575	128	747	1,902	3,929	773	387	400	27	8	9,209
Whanganui District	1,060	1,756	1,990	2,708	4,594	9,969	1,068	258	204	37	C	C
Rangitikei District	1,775	302	1,349	1,553	5,740	8,149	375	327	461	C	5	C
Manawatu District	243	C	335	562	932	3,046	497	334	370	16	5	C
Kapiti Coast District	54	138	63	240	747	1,085	284	340	58	0	0	3,009
Upper Hutt City	C	C	C	669	962	896	367	242	221	30	35	4,718
Porirua City	C	C	C	129	32	406	288	169	117	C	0	1,205
Wellington City	C	0	C	8	80	291	98	27	2	0	0	581
Lower Hutt City	0	0	0	0	C	88	0	10	105	0	0	C
Palmerston North City	C	C	418	393	159	664	88	30	171	0	0	2,829
Tararua District	3,170	2,403	3,149	1,533	2,518	5,593	958	702	581	49	16	20,672
Masterton District	8,595	3,217	2,590	3,054	4,993	12,127	1,168	1,540	561	183	18	38,046
Horowhenua District	920	546	1,012	1,557	1,141	2,403	491	314	248	C	C	8,685
Carterton District	C	1,691	1,373	909	6,257	2,215	391	111	213	55	0	C
South Wairarapa District	1,565	825	827	970	2,103	2,756	650	236	210	36	2	10,180
<b>Region total</b>	<b>20,803</b>	<b>13,259</b>	<b>14,335</b>	<b>15,839</b>	<b>C</b>	<b>57,909</b>	<b>8,011</b>	<b>5,325</b>	<b>4,111</b>	<b>605</b>	<b>206</b>	<b>173,812</b>
<b>North Island total</b>	<b>197,514</b>	<b>164,122</b>	<b>159,112</b>	<b>153,658</b>	<b>227,531</b>	<b>254,463</b>	<b>28,325</b>	<b>20,194</b>	<b>13,014</b>	<b>1,313</b>	<b>448</b>	<b>1,219,694</b>

	Radiata pine Age class [years]											Total [ha]
	1-5 Years [ha]	6-10 Years [ha]	11-15 Years [ha]	16-20 Years [ha]	21-25 Years [ha]	26-30 Years [ha]	31-35 Years [ha]	36-40 Years [ha]	41-50 Years [ha]	51-60 Years [ha]	61+ Year [ha]	
<b>Nelson and Marlborough wood supply region</b>												
Nelson City	1,284	819	2,118	1,351	1,477	1,105	C	58	57	3	0	C
Tasman District	12,403	8,955	12,915	14,125	13,633	12,385	872	936	683	151	19	77,077
Marlborough District	6,879	13,416	7,081	7,383	10,159	22,324	2,039	2,237	1,190	144	26	72,878
Kaikoura District	C	C	C	39	174	715	16	22	60	0	2	1,742
<b>Region total</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>22,898</b>	<b>25,443</b>	<b>36,529</b>	<b>C</b>	<b>3,253</b>	<b>1,990</b>	<b>298</b>	<b>47</b>	<b>C</b>
<b>West Coast wood supply region</b>												
Buller District	C	C	C	C	146	546	45	42	111	8	0	2,932
Grey District	2,531	C	C	C	C	1,090	60	82	341	C	0	C
Westland District	C	C	C	C	816	905	20	78	C	C	0	5,830
<b>Region total</b>	<b>3,693</b>	<b>3,114</b>	<b>2,760</b>	<b>4,041</b>	<b>C</b>	<b>2,541</b>	<b>125</b>	<b>202</b>	<b>C</b>	<b>185</b>	<b>0</b>	<b>20,366</b>
<b>Canterbury wood supply region</b>												
Hurunui District	1,875	C	C	4,276	7,279	7,450	891	634	526	71	17	27,506
Waimakariri District	219	441	504	801	1,538	3,313	567	170	57	37	7	7,654
Christchurch City	344	694	323	423	1,209	3,352	341	400	262	13	24	7,385
Selwyn District	C	C	707	409	1,128	2,483	451	362	263	42	C	8,328
Ashburton District	C	C	C	284	311	621	102	87	61	36	21	2,321
Timaru District	C	C	200	518	582	2,533	564	474	66	25	0	6,625
Mackenzie District	189	57	143	78	316	1,202	76	102	123	41	2	2,329
Waimate District	C	C	C	662	1,808	2,310	279	197	91	C	C	7,751
Banks Peninsula District	0	0	0	0	0	0	0	0	0	0	0	0
<b>Region total</b>	<b>6,082</b>	<b>6,351</b>	<b>5,050</b>	<b>7,451</b>	<b>14,171</b>	<b>23,264</b>	<b>3,271</b>	<b>2,426</b>	<b>1,449</b>	<b>C</b>	<b>98</b>	<b>69,899</b>
<b>Otago and Southland wood supply region</b>												
Waitaki District	3,474	2,549	2,345	922	4,204	4,889	256	443	284	52	10	19,428
Dunedin City	2,159	C	2,875	766	1,061	3,058	533	255	105	C	0	14,322
Queenstown-Lakes District	0	0	0	C	14	46	22	37	80	4	7	C
Central Otago District	C	C	11	118	207	992	60	230	129	9	52	2,214
Clutha District	11,896	5,070	5,030	8,751	13,788	15,518	1,034	588	496	232	C	C
Gore District	C	0	17	56	816	1,220	66	34	54	37	1	C
Southland District	6,043	5,007	4,917	5,529	11,907	10,514	731	954	898	134	16	46,650
Invercargill City	C	274	C	43	76	205	82	10	20	C	0	889
<b>Region total</b>	<b>24,079</b>	<b>16,444</b>	<b>C</b>	<b>C</b>	<b>32,073</b>	<b>36,442</b>	<b>2,784</b>	<b>2,551</b>	<b>2,066</b>	<b>480</b>	<b>C</b>	<b>148,670</b>
<b>South Island total</b>	<b>55,053</b>	<b>49,157</b>	<b>45,238</b>	<b>50,585</b>	<b>74,512</b>	<b>98,776</b>	<b>9,116</b>	<b>8,432</b>	<b>6,385</b>	<b>1,249</b>	<b>410</b>	<b>398,913</b>
<b>New Zealand total</b>	<b>252,567</b>	<b>213,279</b>	<b>204,350</b>	<b>204,243</b>	<b>302,043</b>	<b>353,239</b>	<b>37,441</b>	<b>28,626</b>	<b>19,399</b>	<b>2,562</b>	<b>858</b>	<b>1,618,607</b>

Figure 15: Distribution of radiata pine forest area by age class and island, as at 1 April 2023

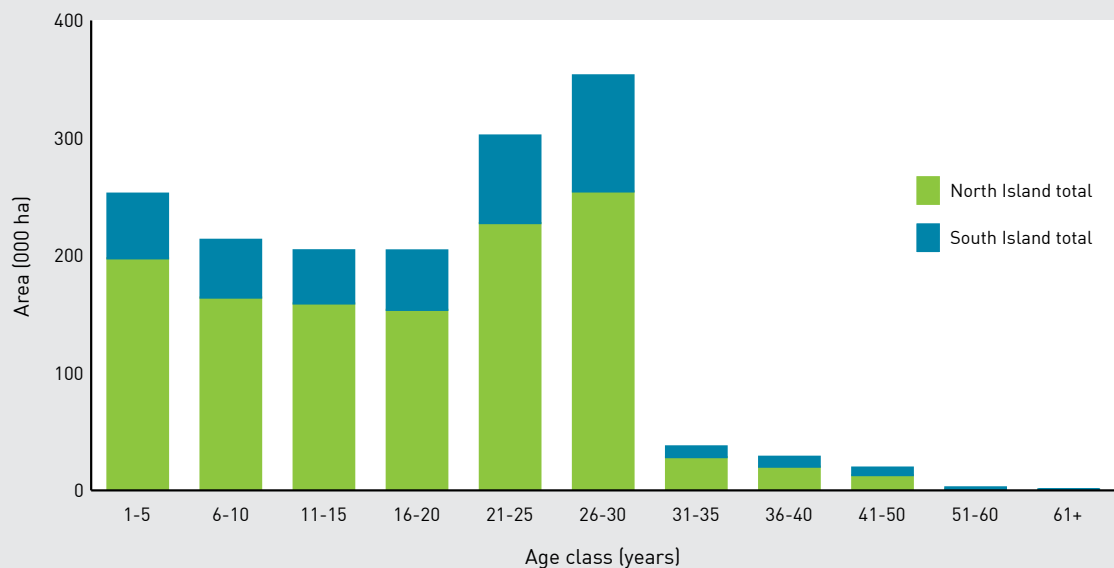


Table 12: Area planted in Douglas-fir by territorial authority, as at 1 April 2023

	Douglas-fir Age class (years)											Total (ha)
	1-5 Years (ha)	6-10 Years (ha)	11-15 Years (ha)	16-20 Years (ha)	21-25 Years (ha)	26-30 Years (ha)	31-35 Years (ha)	36-40 Years (ha)	41-50 Years (ha)	51-60 Years (ha)	61+ Year (ha)	
<b>Northland wood supply region</b>												
Far North District	0	0	0	0	0	2	0	0	2	0	0	4
Whangarei District	0	0	0	0	0	0	0	0	0	0	0	0
Kaipara District	0	0	0	0	0	0	0	0	0	0	0	0
Auckland Council	0	C	0	0	0	0	0	0	0	0	0	C
<b>Region total</b>	<b>0</b>	<b>C</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>C</b>
<b>Central North Island wood supply region</b>												
Thames-Coromandel District	0	0	0	0	0	0	0	0	0	0	0	0
Hauraki District	0	0	0	0	0	0	0	0	0	0	0	0
Waikato District	0	0	0	0	0	1	0	1	0	0	0	2
Matamata-Piako District	0	0	0	0	4	0	0	0	0	0	0	4
Hamilton City	0	0	0	0	0	0	0	0	0	0	0	0
Tauranga District	0	0	0	0	0	0	0	0	0	0	0	0
Western Bay of Plenty District	0	0	0	3	5	8	0	0	11	0	0	27
Rotorua District	C	0	0	14	480	305	C	C	357	C	C	1,900
Kawerau District	0	0	0	0	0	0	0	0	0	0	0	0
Whakatane District	C	0	C	C	295	C	C	C	C	20	C	C
Opotiki District	0	0	0	0	0	0	0	0	0	0	0	0
Waipa District	0	0	0	0	2	1	0	0	0	0	0	3
Otorohanga District	0	0	0	36	52	25	1	0	0	1	0	115
Waitomo District	0	0	C	C	143	235	0	0	6	3	0	1,873
Ruapehu District	C	C	C	28	C	97	0	C	C	C	0	887
South Waikato District	C	0	C	C	7	9	0	0	C	0	C	C
Taupo District	100	144	62	987	C	207	1,540	C	206	56	C	4,924
Franklin District	0	0	0	0	0	0	0	0	0	0	0	0
<b>Region total</b>	<b>241</b>	<b>C</b>	<b>1,399</b>	<b>1,924</b>	<b>2,381</b>	<b>C</b>	<b>2,923</b>	<b>1,118</b>	<b>714</b>	<b>218</b>	<b>146</b>	<b>13,885</b>
<b>East Coast wood supply region</b>												
Gisborne District	0	C	299	341	C	238	0	C	4	C	0	1,660
<b>Region total</b>	<b>0</b>	<b>C</b>	<b>299</b>	<b>341</b>	<b>C</b>	<b>238</b>	<b>0</b>	<b>C</b>	<b>4</b>	<b>C</b>	<b>0</b>	<b>1,660</b>
<b>Hawke's Bay wood supply region</b>												
Wairoa District	0	0	C	C	19	1	0	0	C	37	0	123
Hastings District	0	0	C	C	19	C	C	17	19	C	5	210
Napier City	0	0	0	0	0	0	0	0	0	0	0	0
Central Hawkes Bay District	0	0	0	5	7	2	22	0	1	1	5	43
<b>Region total</b>	<b>0</b>	<b>0</b>	<b>45</b>	<b>38</b>	<b>45</b>	<b>C</b>	<b>C</b>	<b>17</b>	<b>C</b>	<b>C</b>	<b>10</b>	<b>376</b>
<b>Southern North Island wood supply region</b>												
New Plymouth District	0	0	0	0	0	0	0	0	0	0	0	0
Stratford District	0	0	0	1	1	0	0	0	C	C	0	C
South Taranaki District	0	0	0	0	0	0	0	0	1	0	0	1
Whanganui District	0	0	C	C	C	C	C	C	C	0	0	C
Rangitikei District	0	0	C	4	55	52	0	1	9	5	7	C
Manawatu District	0	0	0	2	5	0	3	7	3	0	0	20
Kapiti Coast District	0	0	0	0	C	0	0	0	0	0	0	C
Upper Hutt City	0	0	0	2	8	C	4	0	C	1	2	20
Porirua City	0	0	0	0	0	0	0	0	0	0	0	0
Wellington City	0	0	0	0	0	0	0	0	0	0	0	0
Lower Hutt City	0	0	0	0	0	0	0	0	0	0	0	0
Palmerston North City	0	C	C	0	0	0	0	0	0	0	0	C
Tararua District	C	0	0	5	C	0	0	1	C	0	0	36
Masterton District	0	C	C	6	10	4	0	0	1	C	13	71
Horowhenua District	0	0	0	0	0	0	1	0	0	C	0	C
Carterton District	0	0	0	1	37	0	1	0	0	0	0	39
South Wairarapa District	0	0	0	0	0	0	0	1	0	0	0	1
<b>Region total</b>	<b>C</b>	<b>24</b>	<b>160</b>	<b>C</b>	<b>150</b>	<b>67</b>	<b>C</b>	<b>C</b>	<b>31</b>	<b>246</b>	<b>22</b>	<b>760</b>
<b>North Island total</b>	<b>243</b>	<b>633</b>	<b>1,903</b>	<b>2,326</b>	<b>3,038</b>	<b>2,824</b>	<b>2,959</b>	<b>1,158</b>	<b>772</b>	<b>657</b>	<b>178</b>	<b>16,691</b>

	Douglas-fir Age class [years]											Total [ha]
	1-5 Years [ha]	6-10 Years [ha]	11-15 Years [ha]	16-20 Years [ha]	21-25 Years [ha]	26-30 Years [ha]	31-35 Years [ha]	36-40 Years [ha]	41-50 Years [ha]	51-60 Years [ha]	61+ Year [ha]	
<b>Nelson and Marlborough wood supply region</b>												
Nelson City	0	0	C	C	5	54	C	C	C	C	0	274
Tasman District	C	C	98	132	723	1,615	C	226	219	73	11	3,911
Marlborough District	0	C	C	63	356	252	17	C	46	27	5	1,095
Kaikoura District	0	C	C	0	10	10	0	1	C	C	0	86
<b>Region total</b>	<b>C</b>	<b>147</b>	<b>147</b>	<b>C</b>	<b>1,094</b>	<b>1,931</b>	<b>822</b>	<b>398</b>	<b>463</b>	<b>144</b>	<b>16</b>	<b>5,366</b>
<b>West Coast wood supply region</b>												
Buller District	0	C	C	82	C	21	2	0	C	C	1	C
Grey District	0	C	C	C	C	C	0	0	C	C	0	C
Westland District	0	0	0	0	C	5	0	0	C	C	0	C
<b>Region total</b>	<b>0</b>	<b>174</b>	<b>284</b>	<b>C</b>	<b>390</b>	<b>C</b>	<b>2</b>	<b>0</b>	<b>97</b>	<b>200</b>	<b>1</b>	<b>1,441</b>
<b>Canterbury wood supply region</b>												
Hurunui District	C	C	C	1,116	840	1,141	153	C	38	4	C	4,523
Waimakariri District	0	C	C	C	39	26	6	7	C	C	0	215
Christchurch City	0	0	0	0	84	51	23	17	27	C	0	C
Selwyn District	C	C	0	17	217	441	C	207	14	C	21	1,368
Ashburton District	C	C	0	37	122	172	41	35	C	0	C	494
Timaru District	C	C	322	1,528	1,989	90	82	19	C	22	31	4,675
Mackenzie District	34	C	C	298	575	265	C	65	73	4	2	1,592
Waimate District	0	C	C	242	1,073	1,784	32	C	66	17	13	3,342
Banks Peninsula District	0	0	0	0	0	0	0	0	0	0	0	0
<b>Region total</b>	<b>242</b>	<b>701</b>	<b>994</b>	<b>C</b>	<b>4,939</b>	<b>3,970</b>	<b>775</b>	<b>632</b>	<b>658</b>	<b>158</b>	<b>75</b>	<b>C</b>
<b>Otago and Southland wood supply region</b>												
Waitaki District	0	0	97	148	2,458	C	C	61	54	4	0	4,180
Dunedin City	0	C	58	C	231	125	46	405	493	7	C	1,401
Queenstown-Lakes District	0	0	0	4	51	120	112	C	29	2	0	C
Central Otago District	130	C	339	270	2,244	165	17	76	48	7	0	C
Clutha District	C	2,384	3,000	3,634	8,599	2,240	496	C	676	137	C	23,347
Gore District	0	0	0	25	1,214	69	5	0	3	12	4	1,332
Southland District	30	C	1,274	3,629	9,981	5,651	116	675	C	27	24	22,962
Invercargill City	0	0	0	0	0	0	0	0	0	0	0	0
<b>Region total</b>	<b>C</b>	<b>3,591</b>	<b>4,768</b>	<b>C</b>	<b>24,778</b>	<b>C</b>	<b>C</b>	<b>2,581</b>	<b>C</b>	<b>196</b>	<b>200</b>	<b>57,091</b>
<b>South Island total</b>	<b>1,196</b>	<b>4,613</b>	<b>6,193</b>	<b>11,467</b>	<b>31,201</b>	<b>15,638</b>	<b>2,410</b>	<b>3,611</b>	<b>2,993</b>	<b>698</b>	<b>292</b>	<b>80,312</b>
<b>New Zealand total</b>	<b>1,439</b>	<b>5,246</b>	<b>8,096</b>	<b>13,793</b>	<b>34,239</b>	<b>18,462</b>	<b>5,369</b>	<b>4,769</b>	<b>3,765</b>	<b>1,355</b>	<b>470</b>	<b>97,003</b>

Figure 16: Distribution of Douglas-fir forest area by age class and island, as at 1 April 2023

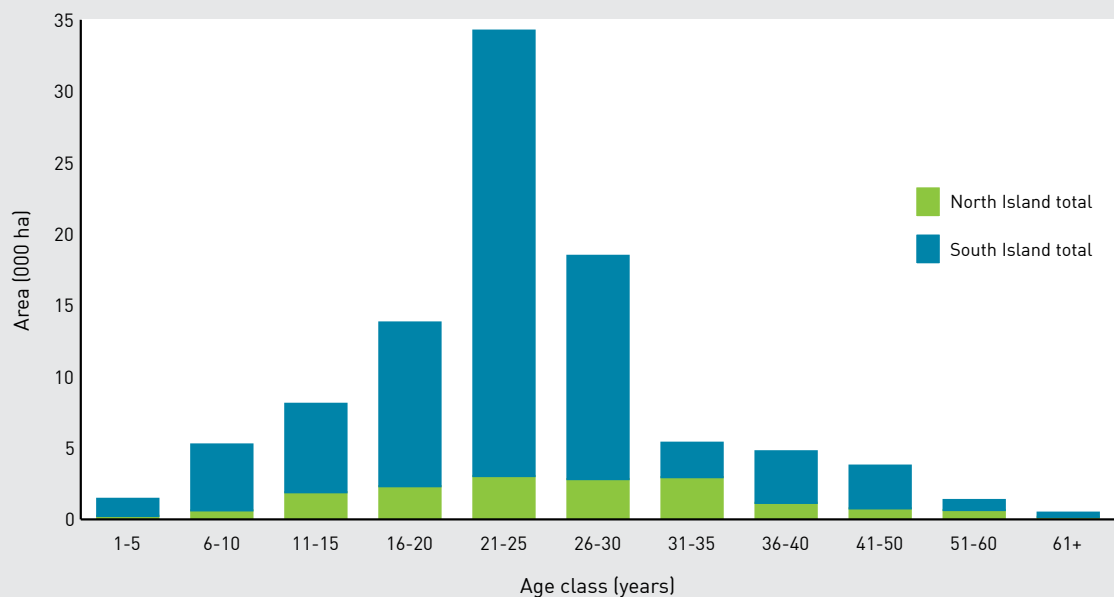


Table 13: Area planted in cypress species by territorial authority, as at 1 April 2023

	Cypress species											Total [ha]
	Age class (years)											
	1-5 Years [ha]	6-10 Years [ha]	11-15 Years [ha]	16-20 Years [ha]	21-25 Years [ha]	26-30 Years [ha]	31-35 Years [ha]	36-40 Years [ha]	41-50 Years [ha]	51-60 Years [ha]	61+ Year [ha]	
<b>Northland wood supply region</b>												
Far North District	C	0	4	C	45	55	C	C	C	C	0	163
Whangarei District	0	0	0	0	24	C	C	0	C	0	0	43
Kaipara District	0	0	0	41	0	C	C	0	C	0	0	45
Auckland Council	0	0	17	C	33	110	23	5	0	0	0	C
<b>Region total</b>	<b>C</b>	<b>0</b>	<b>21</b>	<b>94</b>	<b>102</b>	<b>181</b>	<b>49</b>	<b>C</b>	<b>15</b>	<b>C</b>	<b>0</b>	<b>C</b>
<b>Central North Island wood supply region</b>												
Thames-Coromandel District	0	0	0	0	C	0	0	0	C	0	0	3
Hauraki District	0	0	C	0	0	0	0	C	0	0	0	C
Waikato District	0	C	0	0	C	0	0	7	0	C	0	14
Matamata-Piako District	0	0	0	0	0	0	0	0	0	0	0	0
Hamilton City	0	0	0	0	0	0	0	0	0	0	0	0
Tauranga District	0	0	0	0	0	0	0	0	0	0	0	0
Western Bay of Plenty District	0	0	C	38	18	C	0	18	C	0	0	103
Rotorua District	22	29	C	C	C	C	9	41	0	0	C	251
Kawerau District	0	0	0	0	0	0	0	0	0	0	0	0
Whakatane District	0	C	C	102	C	C	0	C	0	0	0	C
Opotiki District	0	C	0	0	0	0	0	0	0	0	0	C
Waipa District	0	0	0	0	0	C	0	0	0	0	0	C
Otorohanga District	0	0	0	0	0	0	0	C	0	0	0	C
Waitomo District	0	0	0	0	0	C	0	0	0	0	0	C
Ruapehu District	C	6	0	C	12	0	0	C	0	0	0	102
South Waikato District	0	C	C	0	0	10	C	0	0	0	0	28
Taupo District	C	32	C	129	19	47	3	C	0	0	0	460
Franklin District	0	0	0	0	0	0	0	0	0	0	0	0
<b>Region total</b>	<b>112</b>	<b>89</b>	<b>260</b>	<b>405</b>	<b>59</b>	<b>145</b>	<b>C</b>	<b>112</b>	<b>4</b>	<b>C</b>	<b>C</b>	<b>1,209</b>
<b>East Coast wood supply region</b>												
Gisborne District	0	C	60	13	32	46	20	19	C	C	C	257
<b>Region total</b>	<b>0</b>	<b>C</b>	<b>60</b>	<b>13</b>	<b>32</b>	<b>46</b>	<b>20</b>	<b>19</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>257</b>
<b>Hawke's Bay wood supply region</b>												
Wairoa District	C	0	0	C	94	C	C	0	0	0	C	225
Hastings District	C	C	C	40	41	C	0	0	0	0	0	148
Napier City	0	0	0	0	0	0	0	0	0	0	0	0
Central Hawkes Bay District	C	0	0	3	13	0	0	0	2	C	0	30
<b>Region total</b>	<b>42</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>148</b>	<b>26</b>	<b>C</b>	<b>0</b>	<b>2</b>	<b>C</b>	<b>C</b>	<b>403</b>
<b>Southern North Island wood supply region</b>												
New Plymouth District	0	0	0	0	0	0	0	C	0	0	0	C
Stratford District	0	C	C	0	0	C	0	15	C	C	0	109
South Taranaki District	0	0	0	C	C	0	0	0	0	0	0	C
Whanganui District	0	0	C	C	C	C	0	0	6	0	0	131
Rangitikei District	0	C	C	21	C	11	3	C	C	C	0	149
Manawatu District	C	0	0	0	C	5	0	C	4	0	C	39
Kapiti Coast District	0	0	0	0	C	0	0	0	0	0	0	C
Upper Hutt City	0	0	0	0	C	C	C	C	C	0	0	C
Porirua City	0	0	0	0	0	C	0	0	0	0	0	C
Wellington City	0	0	0	0	0	0	0	0	0	0	0	0
Lower Hutt City	0	0	0	0	0	0	0	0	0	0	0	0
Palmerston North City	0	C	C	0	0	0	0	0	0	0	0	C
Tararua District	0	0	0	0	0	0	0	0	0	0	0	0
Masterton District	0	0	4	4	17	C	C	3	0	0	0	44
Horowhenua District	0	0	C	C	0	C	0	0	C	0	0	13
Carterton District	0	0	0	C	0	0	0	0	0	0	0	C
South Wairarapa District	0	0	0	C	C	0	C	0	C	0	0	9
<b>Region total</b>	<b>C</b>	<b>68</b>	<b>28</b>	<b>127</b>	<b>60</b>	<b>43</b>	<b>9</b>	<b>90</b>	<b>72</b>	<b>85</b>	<b>C</b>	<b>587</b>
<b>North Island total</b>	<b>159</b>	<b>179</b>	<b>398</b>	<b>755</b>	<b>401</b>	<b>441</b>	<b>119</b>	<b>229</b>	<b>115</b>	<b>121</b>	<b>19</b>	<b>2,936</b>

	Cypress species Age class [years]											Total [ha]
	1-5 Years [ha]	6-10 Years [ha]	11-15 Years [ha]	16-20 Years [ha]	21-25 Years [ha]	26-30 Years [ha]	31-35 Years [ha]	36-40 Years [ha]	41-50 Years [ha]	51-60 Years [ha]	61+ Year [ha]	
<b>Nelson and Marlborough wood supply region</b>												
Nelson City	0	0	C	C	4	C	0	0	0	0	C	26
Tasman District	C	0	13	11	34	75	C	0	0	0	0	145
Marlborough District	0	11	14	47	89	26	C	9	0	0	C	209
Kaikoura District	0	0	0	C	0	0	0	0	C	C	0	10
<b>Region total</b>	<b>C</b>	<b>11</b>	<b>C</b>	<b>69</b>	<b>127</b>	<b>C</b>	<b>17</b>	<b>9</b>	<b>C</b>	<b>C</b>	<b>9</b>	<b>390</b>
<b>West Coast wood supply region</b>												
Buller District	0	0	0	0	0	C	0	C	0	0	C	C
Grey District	C	0	C	C	C	31	C	C	C	0	C	C
Westland District	0	0	C	C	C	914	10	C	C	0	0	C
<b>Region total</b>	<b>C</b>	<b>0</b>	<b>69</b>	<b>1,733</b>	<b>1,175</b>	<b>C</b>	<b>C</b>	<b>391</b>	<b>66</b>	<b>0</b>	<b>7</b>	<b>4,414</b>
<b>Canterbury wood supply region</b>												
Hurunui District	0	C	C	13	C	7	C	0	0	0	C	111
Waimakariri District	0	0	0	0	C	0	5	0	0	0	0	C
Christchurch City	0	0	0	0	C	139	C	0	C	0	0	159
Selwyn District	0	0	0	0	18	10	C	0	0	0	0	C
Ashburton District	0	C	0	C	0	0	C	0	0	0	0	C
Timaru District	0	0	0	0	C	C	0	0	0	0	0	34
Mackenzie District	0	0	0	C	0	C	0	0	0	0	0	C
Waimate District	0	0	0	C	7	7	7	0	0	0	0	C
Banks Peninsula District	0	0	0	0	0	0	0	0	0	0	0	0
<b>Region total</b>	<b>0</b>	<b>2</b>	<b>C</b>	<b>32</b>	<b>92</b>	<b>197</b>	<b>23</b>	<b>0</b>	<b>C</b>	<b>0</b>	<b>C</b>	<b>415</b>
<b>Otago and Southland wood supply region</b>												
Waitaki District	0	C	5	7	C	15	0	0	0	0	C	63
Dunedin City	0	0	0	15	20	62	40	C	0	0	0	C
Queenstown-Lakes District	0	0	0	0	0	0	0	0	0	0	0	0
Central Otago District	0	0	C	0	0	0	C	0	0	0	0	11
Clutha District	0	C	101	231	215	156	20	35	C	C	C	815
Gore District	0	0	0	0	C	0	0	0	0	0	0	C
Southland District	C	26	C	43	C	20	15	23	29	0	0	353
Invercargill City	0	0	0	0	4	0	0	0	0	0	0	4
<b>Region total</b>	<b>C</b>	<b>42</b>	<b>185</b>	<b>296</b>	<b>374</b>	<b>253</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>5</b>	<b>1,417</b>
<b>South Island total</b>	<b>38</b>	<b>55</b>	<b>341</b>	<b>2,130</b>	<b>1,768</b>	<b>1,508</b>	<b>136</b>	<b>478</b>	<b>152</b>	<b>2</b>	<b>28</b>	<b>6,636</b>
<b>New Zealand total</b>	<b>197</b>	<b>234</b>	<b>739</b>	<b>2,885</b>	<b>2,169</b>	<b>1,949</b>	<b>255</b>	<b>707</b>	<b>267</b>	<b>123</b>	<b>47</b>	<b>9,572</b>

Figure 17: Distribution of cypress species forest area by age class and island, as at 1 April 2023

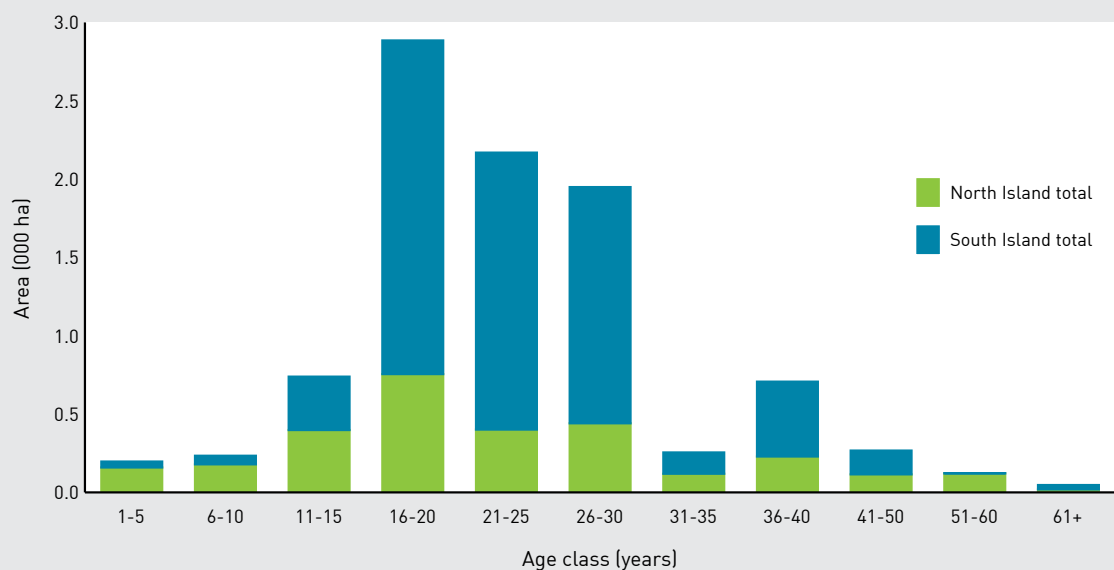


Table 14: Area planted in other softwoods by territorial authority, as at 1 April 2023

	Other softwoods											Total (ha)
	Age class (years)											
	1-5 Years (ha)	6-10 Years (ha)	11-15 Years (ha)	16-20 Years (ha)	21-25 Years (ha)	26-30 Years (ha)	31-35 Years (ha)	36-40 Years (ha)	41-50 Years (ha)	51-60 Years (ha)	61+ Year (ha)	
<b>Northland wood supply region</b>												
Far North District	C	C	3	78	101	89	46	23	24	12	C	470
Whangarei District	C	0	C	15	69	80	1	C	2	0	C	244
Kaipara District	C	0	0	11	66	10	15	C	C	0	0	141
Auckland Council	C	0	C	34	35	64	10	24	14	0	3	205
<b>Region total</b>	<b>197</b>	<b>C</b>	<b>6</b>	<b>138</b>	<b>271</b>	<b>243</b>	<b>72</b>	<b>51</b>	<b>C</b>	<b>12</b>	<b>12</b>	<b>1,060</b>
<b>Central North Island wood supply region</b>												
Thames-Coromandel District	C	C	0	6	4	19	2	3	4	C	C	66
Hauraki District	0	C	C	14	19	0	0	1	0	C	0	60
Waikato District	C	C	C	C	55	16	C	C	0	0	0	147
Matamata-Piako District	0	C	0	9	15	4	C	1	0	0	3	34
Hamilton City	0	0	0	0	0	0	0	0	0	0	0	0
Tauranga District	0	0	0	0	0	0	0	0	0	0	0	0
Western Bay of Plenty District	C	23	C	22	85	106	5	C	C	0	3	257
Rotorua District	36	34	85	20	109	89	26	49	48	7	C	C
Kawerau District	0	0	0	0	0	0	0	0	0	0	0	0
Whakatane District	0	C	0	12	43	48	13	14	C	3	C	179
Opotiki District	0	C	C	0	2	3	1	0	0	0	0	16
Waipa District	C	0	0	5	25	32	2	1	0	0	C	106
Otorohanga District	46	C	C	3	7	24	24	3	0	3	0	C
Waitomo District	0	0	C	C	31	44	1	5	C	0	0	C
Ruapehu District	413	593	C	23	186	161	5	6	C	C	12	1,489
South Waikato District	C	55	0	0	C	C	1	C	6	1	25	182
Taupo District	75	98	56	12	51	177	C	14	29	41	C	637
Franklin District	0	0	0	0	0	0	0	0	0	0	0	0
<b>Region total</b>	<b>617</b>	<b>843</b>	<b>1,244</b>	<b>514</b>	<b>C</b>	<b>C</b>	<b>160</b>	<b>130</b>	<b>205</b>	<b>76</b>	<b>124</b>	<b>C</b>
<b>East Coast wood supply region</b>												
Gisborne District	109	77	156	85	33	90	15	19	171	162	10	927
<b>Region total</b>	<b>109</b>	<b>77</b>	<b>156</b>	<b>85</b>	<b>33</b>	<b>90</b>	<b>15</b>	<b>19</b>	<b>171</b>	<b>162</b>	<b>10</b>	<b>927</b>
<b>Hawke's Bay wood supply region</b>												
Wairoa District	C	C	191	57	32	34	0	0	C	C	0	725
Hastings District	124	8	C	14	32	59	C	33	C	C	4	469
Napier City	0	0	0	0	0	0	0	2	0	0	0	2
Central Hawkes Bay District	C	0	5	15	40	13	16	10	C	3	48	257
<b>Region total</b>	<b>569</b>	<b>C</b>	<b>C</b>	<b>86</b>	<b>104</b>	<b>106</b>	<b>C</b>	<b>45</b>	<b>48</b>	<b>40</b>	<b>52</b>	<b>1,453</b>
<b>Southern North Island wood supply region</b>												
New Plymouth District	0	C	C	92	C	22	C	0	5	2	0	688
Stratford District	C	C	C	9	5	9	0	C	3	C	0	C
South Taranaki District	0	C	206	90	32	30	10	0	0	0	3	C
Whanganui District	C	0	C	80	76	52	C	C	C	C	1	320
Rangitikei District	0	C	C	C	129	33	31	6	9	C	14	925
Manawatu District	C	0	0	23	38	22	8	17	3	0	10	C
Kapiti Coast District	0	0	0	3	13	12	1	0	0	0	0	29
Upper Hutt City	0	0	0	1	3	7	9	0	0	C	C	43
Porirua City	0	0	0	0	0	6	0	0	0	0	0	6
Wellington City	0	0	0	0	0	0	0	0	0	0	0	0
Lower Hutt City	0	0	0	0	0	2	2	0	0	0	0	4
Palmerston North City	0	C	C	0	0	0	1	0	0	0	0	C
Tararua District	C	0	0	8	20	6	C	C	8	0	2	314
Masterton District	0	2	9	51	44	45	27	43	C	25	2	C
Horowhenua District	0	0	C	C	7	19	9	1	C	0	1	51
Carterton District	0	0	0	1	15	5	7	4	0	C	0	C
South Wairarapa District	0	0	0	7	11	1	4	0	1	0	5	29
<b>Region total</b>	<b>141</b>	<b>626</b>	<b>591</b>	<b>751</b>	<b>C</b>	<b>271</b>	<b>125</b>	<b>345</b>	<b>52</b>	<b>88</b>	<b>C</b>	<b>3,803</b>
<b>North Island total</b>	<b>1,633</b>	<b>1,586</b>	<b>2,236</b>	<b>1,574</b>	<b>1,851</b>	<b>1,449</b>	<b>510</b>	<b>590</b>	<b>520</b>	<b>378</b>	<b>250</b>	<b>12,577</b>



	Other softwoods											Total (ha)
	Age class (years)											
	1-5 Years (ha)	6-10 Years (ha)	11-15 Years (ha)	16-20 Years (ha)	21-25 Years (ha)	26-30 Years (ha)	31-35 Years (ha)	36-40 Years (ha)	41-50 Years (ha)	51-60 Years (ha)	61+ Year (ha)	
<b>Nelson and Marlborough wood supply region</b>												
Nelson City	C	C	0	0	1	1	0	0	C	C	0	120
Tasman District	48	C	39	124	73	189	20	41	156	C	1	769
Marlborough District	C	C	5	63	112	96	20	30	C	8	0	428
Kaikoura District	0	0	0	0	7	0	0	0	1	0	0	8
<b>Region total</b>	<b>108</b>	<b>90</b>	<b>44</b>	<b>187</b>	<b>193</b>	<b>286</b>	<b>40</b>	<b>71</b>	<b>265</b>	<b>40</b>	<b>1</b>	<b>1,325</b>
<b>West Coast wood supply region</b>												
Buller District	C	0	0	1	4	25	0	C	146	5	C	234
Grey District	C	0	0	2	C	8	0	C	C	C	0	C
Westland District	C	0	0	59	137	85	0	7	C	29	0	389
<b>Region total</b>	<b>129</b>	<b>0</b>	<b>0</b>	<b>62</b>	<b>C</b>	<b>118</b>	<b>0</b>	<b>49</b>	<b>301</b>	<b>C</b>	<b>C</b>	<b>884</b>
<b>Canterbury wood supply region</b>												
Hurunui District	C	C	C	614	61	44	6	C	C	C	C	2,269
Waimakariri District	C	C	C	C	10	127	21	1	C	0	C	289
Christchurch City	0	0	C	23	68	963	36	36	5	C	7	1,141
Selwyn District	C	C	0	C	60	157	34	29	7	0	0	439
Ashburton District	0	0	0	19	58	27	67	8	C	0	34	C
Timaru District	0	0	C	C	43	305	16	C	C	3	8	530
Mackenzie District	C	C	24	4	28	559	28	110	C	C	78	926
Waimate District	0	C	C	57	112	120	8	C	C	C	0	471
Banks Peninsula District	0	0	0	0	0	0	0	0	0	0	0	0
<b>Region total</b>	<b>657</b>	<b>69</b>	<b>687</b>	<b>771</b>	<b>440</b>	<b>2,302</b>	<b>216</b>	<b>450</b>	<b>298</b>	<b>222</b>	<b>168</b>	<b>C</b>
<b>Otago and Southland wood supply region</b>												
Waitaki District	0	C	117	30	79	139	1	20	11	5	7	C
Dunedin City	31	197	4	C	6	74	C	C	30	C	C	402
Queenstown-Lakes District	0	0	C	0	C	22	3	C	0	3	0	44
Central Otago District	C	C	C	C	196	520	82	55	29	C	C	1,656
Clutha District	567	158	123	50	269	252	37	87	64	C	23	C
Gore District	0	0	0	5	6	141	0	0	0	0	0	152
Southland District	C	346	8	81	56	157	54	127	C	12	8	1,649
Invercargill City	0	0	0	0	0	3	0	0	0	0	0	3
<b>Region total</b>	<b>1,422</b>	<b>1,006</b>	<b>343</b>	<b>233</b>	<b>C</b>	<b>1,308</b>	<b>C</b>	<b>333</b>	<b>C</b>	<b>172</b>	<b>54</b>	<b>5,966</b>
<b>South Island total</b>	<b>2,316</b>	<b>1,165</b>	<b>1,074</b>	<b>1,253</b>	<b>1,393</b>	<b>4,014</b>	<b>440</b>	<b>903</b>	<b>1,157</b>	<b>512</b>	<b>228</b>	<b>14,455</b>
<b>New Zealand total</b>	<b>3,949</b>	<b>2,751</b>	<b>3,310</b>	<b>2,827</b>	<b>3,244</b>	<b>5,463</b>	<b>950</b>	<b>1,493</b>	<b>1,677</b>	<b>890</b>	<b>478</b>	<b>27,032</b>

Figure 18: Distribution of other softwoods forest area by age class and island, as at 1 April 2023

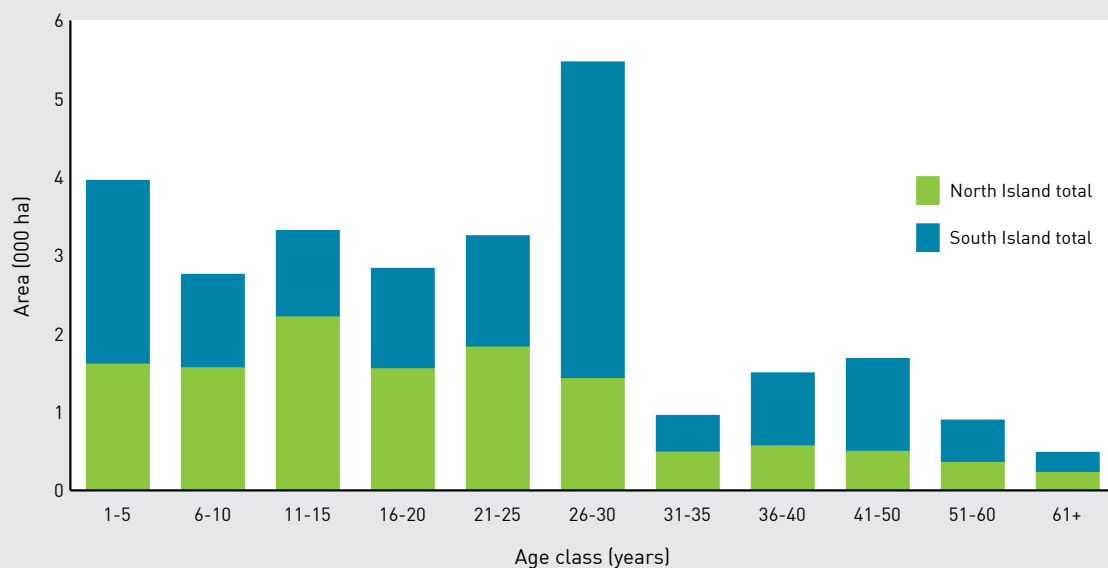


Table 15: Area planted in eucalypts by territorial authority, as at 1 April 2023

	Eucalypts											Total [ha]
	Age class (years)											
	1-5 Years [ha]	6-10 Years [ha]	11-15 Years [ha]	16-20 Years [ha]	21-25 Years [ha]	26-30 Years [ha]	31-35 Years [ha]	36-40 Years [ha]	41-50 Years [ha]	51-60 Years [ha]	61+ Year [ha]	
<b>Northland wood supply region</b>												
Far North District	C	C	5	22	2	C	4	70	73	C	C	300
Whangarei District	C	0	0	0	0	36	7	C	C	0	C	146
Kaipara District	C	0	0	0	0	C	0	C	C	C	0	169
Auckland Council	0	C	27	17	C	9	10	6	C	C	0	83
<b>Region total</b>	<b>221</b>	<b>2</b>	<b>32</b>	<b>39</b>	<b>C</b>	<b>135</b>	<b>21</b>	<b>85</b>	<b>152</b>	<b>3</b>	<b>5</b>	<b>698</b>
<b>Central North Island wood supply region</b>												
Thames-Coromandel District	0	0	0	0	0	0	0	9	C	0	C	C
Hauraki District	0	0	0	0	C	0	0	0	0	0	0	C
Waikato District	0	0	0	0	0	2	0	C	0	0	0	C
Matamata-Piako District	0	0	0	0	0	0	0	0	0	0	0	0
Hamilton City	0	0	0	0	0	0	0	0	0	0	0	0
Tauranga District	0	0	0	0	0	0	0	0	0	0	0	0
Western Bay of Plenty District	C	0	C	C	C	15	0	25	C	0	C	298
Rotorua District	0	C	0	0	9	46	C	C	2	0	C	169
Kawerau District	0	0	0	0	C	C	0	0	0	0	0	C
Whakatane District	0	0	0	0	C	C	C	C	0	0	0	C
Opotiki District	0	0	0	0	0	0	0	C	0	0	0	C
Waipa District	0	0	0	0	0	0	0	0	0	0	0	0
Otorohanga District	0	0	0	0	0	0	0	C	0	0	0	C
Waitomo District	0	0	C	0	0	0	C	C	0	0	0	100
Ruapehu District	13	C	C	C	4	C	0	0	0	0	0	65
South Waikato District	C	C	C	C	C	0	0	C	0	C	0	C
Taupo District	C	C	C	69	47	C	C	19	5	C	C	2,590
Franklin District	0	0	0	0	0	0	0	0	0	0	0	0
<b>Region total</b>	<b>1,022</b>	<b>1,686</b>	<b>2,468</b>	<b>377</b>	<b>404</b>	<b>518</b>	<b>4</b>	<b>105</b>	<b>65</b>	<b>212</b>	<b>91</b>	<b>6,952</b>
<b>East Coast wood supply region</b>												
Gisborne District	C	124	160	5	13	C	C	C	29	9	C	548
<b>Region total</b>	<b>C</b>	<b>124</b>	<b>160</b>	<b>5</b>	<b>13</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>29</b>	<b>9</b>	<b>C</b>	<b>548</b>
<b>Hawke's Bay wood supply region</b>												
Wairoa District	274	C	77	C	C	0	0	0	C	C	0	666
Hastings District	C	9	C	3	0	C	4	30	C	C	0	247
Napier City	0	0	0	0	0	C	0	0	0	0	0	C
Central Hawkes Bay District	C	C	C	C	0	0	C	0	10	C	0	321
<b>Region total</b>	<b>556</b>	<b>195</b>	<b>276</b>	<b>121</b>	<b>C</b>	<b>9</b>	<b>C</b>	<b>30</b>	<b>18</b>	<b>4</b>	<b>0</b>	<b>C</b>
<b>Southern North Island wood supply region</b>												
New Plymouth District	0	0	0	0	C	0	0	0	0	0	0	C
Stratford District	0	0	0	0	0	0	0	C	C	C	C	C
South Taranaki District	C	C	C	0	0	0	C	0	0	0	0	C
Whanganui District	0	0	0	0	0	0	0	0	0	0	0	0
Rangitikei District	C	C	C	C	C	C	C	C	C	0	0	C
Manawatu District	C	C	0	0	10	C	0	0	0	0	0	24
Kapiti Coast District	0	0	0	0	0	0	0	0	0	0	0	0
Upper Hutt City	0	0	0	0	0	0	C	0	C	0	0	C
Porirua City	0	0	0	0	0	0	0	0	0	0	0	0
Wellington City	0	0	0	0	0	0	0	0	0	0	0	0
Lower Hutt City	0	0	0	0	0	0	0	0	0	0	0	0
Palmerston North City	0	C	0	C	C	0	0	C	0	0	0	17
Tararua District	0	0	0	0	0	0	0	0	0	0	0	0
Masterton District	0	40	27	C	C	C	0	4	0	0	0	79
Horowhenua District	0	C	0	0	0	C	0	C	C	0	0	26
Carterton District	0	C	0	0	0	0	0	0	C	0	0	C
South Wairarapa District	0	0	0	0	0	0	C	0	C	0	0	C
<b>Region total</b>	<b>42</b>	<b>83</b>	<b>50</b>	<b>9</b>	<b>29</b>	<b>11</b>	<b>10</b>	<b>29</b>	<b>168</b>	<b>C</b>	<b>C</b>	<b>C</b>
<b>North Island total</b>	<b>1,901</b>	<b>2,090</b>	<b>2,986</b>	<b>551</b>	<b>475</b>	<b>689</b>	<b>86</b>	<b>329</b>	<b>432</b>	<b>232</b>	<b>103</b>	<b>9,874</b>

	Eucalypts Age class (years)											Total (ha)
	1-5 Years (ha)	6-10 Years (ha)	11-15 Years (ha)	16-20 Years (ha)	21-25 Years (ha)	26-30 Years (ha)	31-35 Years (ha)	36-40 Years (ha)	41-50 Years (ha)	51-60 Years (ha)	61+ Year (ha)	
<b>Nelson and Marlborough wood supply region</b>												
Nelson City	0	0	0	0	0	0	0	0	C	0	0	C
Tasman District	0	0	0	0	0	7	C	24	C	C	0	C
Marlborough District	6	C	C	C	0	C	C	13	C	C	C	203
Kaikoura District	0	0	C	0	0	0	0	C	0	0	0	2
<b>Region total</b>	<b>6</b>	<b>C</b>	<b>55</b>	<b>C</b>	<b>0</b>	<b>C</b>	<b>3</b>	<b>C</b>	<b>233</b>	<b>13</b>	<b>C</b>	<b>C</b>
<b>West Coast wood supply region</b>												
Buller District	0	0	0	0	0	0	0	0	347	0	C	C
Grey District	0	0	0	0	0	C	0	0	C	C	0	72
Westland District	0	0	0	0	C	C	0	0	C	0	0	C
<b>Region total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>C</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>405</b>	<b>C</b>	<b>C</b>	<b>C</b>
<b>Canterbury wood supply region</b>												
Hurunui District	0	0	0	C	0	0	C	0	0	0	0	C
Waimakariri District	0	C	0	0	0	0	0	0	0	0	0	C
Christchurch City	0	0	0	0	C	24	C	C	0	0	C	49
Selwyn District	0	0	0	C	0	0	C	C	0	0	0	C
Ashburton District	C	0	0	0	0	0	0	C	0	0	0	4
Timaru District	0	0	0	C	0	C	C	0	0	0	0	C
Mackenzie District	0	0	0	0	0	0	0	0	0	0	0	0
Waimate District	0	0	0	0	0	0	0	C	0	0	0	C
Banks Peninsula District	0	0	0	0	0	0	0	0	0	0	0	0
<b>Region total</b>	<b>C</b>	<b>C</b>	<b>0</b>	<b>19</b>	<b>C</b>	<b>C</b>	<b>7</b>	<b>14</b>	<b>0</b>	<b>0</b>	<b>C</b>	<b>98</b>
<b>Otago and Southland wood supply region</b>												
Waitaki District	C	C	C	0	0	0	C	C	C	0	0	75
Dunedin City	0	0	0	0	0	4	18	8	C	0	0	C
Queenstown-Lakes District	0	0	0	0	0	0	0	0	0	0	0	0
Central Otago District	0	0	0	0	0	C	0	C	C	0	0	C
Clutha District	C	C	C	28	C	C	C	45	100	C	C	856
Gore District	C	0	C	0	C	0	C	0	0	0	0	C
Southland District	C	1,922	1,189	C	C	804	406	24	C	C	C	C
Invercargill City	0	4	0	0	0	0	0	0	0	0	0	4
<b>Region total</b>	<b>2,763</b>	<b>1,963</b>	<b>1,327</b>	<b>C</b>	<b>3,085</b>	<b>812</b>	<b>451</b>	<b>101</b>	<b>174</b>	<b>4</b>	<b>4</b>	<b>C</b>
<b>South Island total</b>	<b>2,770</b>	<b>2,026</b>	<b>1,382</b>	<b>677</b>	<b>3,096</b>	<b>856</b>	<b>461</b>	<b>153</b>	<b>812</b>	<b>66</b>	<b>22</b>	<b>12,321</b>
<b>New Zealand total</b>	<b>4,671</b>	<b>4,116</b>	<b>4,368</b>	<b>1,228</b>	<b>3,571</b>	<b>1,545</b>	<b>547</b>	<b>482</b>	<b>1,244</b>	<b>298</b>	<b>125</b>	<b>22,195</b>

Figure 19: Distribution of eucalypts forest area by age class and island, as at 1 April 2023

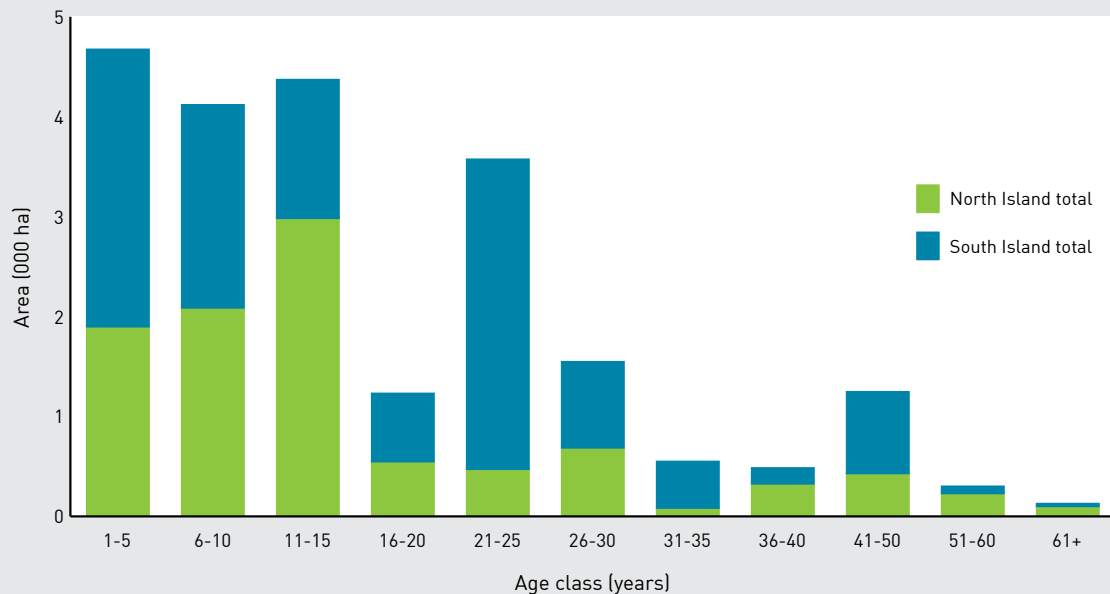


Table 16: Area planted in other hardwoods by territorial authority, as at 1 April 2023

	Other hardwoods Age class (years)											Total (ha)
	1-5 Years (ha)	6-10 Years (ha)	11-15 Years (ha)	16-20 Years (ha)	21-25 Years (ha)	26-30 Years (ha)	31-35 Years (ha)	36-40 Years (ha)	41-50 Years (ha)	51-60 Years (ha)	61+ Year (ha)	
<b>Northland wood supply region</b>												
Far North District	121	104	C	123	336	124	34	95	49	1	2	C
Whangarei District	49	29	0	4	102	168	56	13	13	1	C	C
Kaipara District	C	C	0	25	215	71	C	2	7	0	0	379
Auckland Council	5	0	C	41	177	193	48	51	66	5	16	C
<b>Region total</b>	<b>C</b>	<b>C</b>	<b>16</b>	<b>193</b>	<b>830</b>	<b>556</b>	<b>C</b>	<b>161</b>	<b>135</b>	<b>7</b>	<b>C</b>	<b>2,423</b>
<b>Central North Island wood supply region</b>												
Thames-Coromandel District	0	0	0	2	2	35	2	7	6	0	2	56
Hauraki District	0	C	C	0	7	17	0	0	0	0	6	62
Waikato District	0	0	C	C	14	42	22	6	C	0	1	122
Matamata-Piako District	0	0	0	0	8	14	2	1	0	0	0	25
Hamilton City	0	0	0	0	0	0	0	0	0	0	0	0
Tauranga District	0	0	0	2	7	2	1	1	0	0	0	13
Western Bay of Plenty District	0	0	0	23	46	67	28	30	C	0	0	C
Rotorua District	2	C	C	36	183	163	27	79	21	C	C	554
Kawerau District	C	0	0	0	0	3	0	0	0	0	0	C
Whakatane District	0	C	0	19	97	69	18	5	3	0	C	294
Opotiki District	0	0	C	4	13	5	3	0	0	0	0	C
Waipa District	C	0	0	36	133	31	2	2	9	0	0	C
Otorohanga District	C	0	0	9	9	17	9	29	0	0	2	C
Waitomo District	0	0	0	2	23	44	2	24	18	0	0	113
Ruapehu District	C	C	0	1	3	2	0	C	C	0	0	21
South Waikato District	C	35	15	30	17	31	2	0	3	C	0	135
Taupo District	41	201	27	22	94	79	5	C	9	6	0	C
Franklin District	0	0	0	0	0	0	0	0	0	0	0	0
<b>Region total</b>	<b>60</b>	<b>345</b>	<b>86</b>	<b>C</b>	<b>656</b>	<b>621</b>	<b>123</b>	<b>205</b>	<b>100</b>	<b>14</b>	<b>20</b>	<b>2,447</b>
<b>East Coast wood supply region</b>												
Gisborne District	156	25	C	53	31	76	69	64	27	4	7	C
<b>Region total</b>	<b>156</b>	<b>25</b>	<b>C</b>	<b>53</b>	<b>31</b>	<b>76</b>	<b>69</b>	<b>64</b>	<b>27</b>	<b>4</b>	<b>7</b>	<b>C</b>
<b>Hawke's Bay wood supply region</b>												
Wairoa District	455	79	0	24	0	0	0	C	C	0	0	569
Hastings District	519	80	42	3	40	25	21	19	22	C	2	C
Napier City	C	0	0	0	0	0	0	2	0	0	0	C
Central Hawkes Bay District	144	C	0	7	17	32	4	C	1	0	5	267
<b>Region total</b>	<b>C</b>	<b>C</b>	<b>42</b>	<b>34</b>	<b>57</b>	<b>57</b>	<b>25</b>	<b>87</b>	<b>C</b>	<b>C</b>	<b>7</b>	<b>1,614</b>
<b>Southern North Island wood supply region</b>												
New Plymouth District	0	C	0	9	10	21	C	4	1	0	0	49
Stratford District	C	C	C	4	12	47	C	C	0	C	0	116
South Taranaki District	0	0	C	C	22	21	6	4	3	0	0	C
Whanganui District	0	0	C	11	32	33	5	C	1	0	C	90
Rangitikei District	C	0	0	5	48	47	27	3	4	C	C	187
Manawatu District	0	C	0	6	19	25	13	C	C	0	C	115
Kapiti Coast District	0	0	0	1	12	16	1	0	1	0	0	31
Upper Hutt City	0	0	0	0	0	3	0	5	C	0	0	C
Porirua City	0	0	0	0	0	0	0	2	0	0	0	2
Wellington City	0	0	0	0	0	0	0	0	0	0	0	0
Lower Hutt City	0	0	0	0	0	0	0	0	0	0	0	0
Palmerston North City	0	0	0	8	2	54	0	0	0	0	0	64
Tararua District	0	C	C	7	18	12	3	C	C	3	0	C
Masterton District	0	C	13	17	8	34	C	2	C	5	0	113
Horowhenua District	C	0	0	1	0	54	18	1	0	0	C	188
Carterton District	0	C	0	1	0	3	9	2	C	0	0	50
South Wairarapa District	0	C	0	1	1	40	41	15	9	0	0	C
<b>Region total</b>	<b>125</b>	<b>106</b>	<b>305</b>	<b>C</b>	<b>184</b>	<b>410</b>	<b>134</b>	<b>75</b>	<b>56</b>	<b>13</b>	<b>57</b>	<b>1,849</b>
<b>North Island total</b>	<b>1,650</b>	<b>774</b>	<b>866</b>	<b>881</b>	<b>1,758</b>	<b>1,720</b>	<b>528</b>	<b>592</b>	<b>342</b>	<b>40</b>	<b>111</b>	<b>9,262</b>

	Other hardwoods Age class (years)											Total (ha)
	1-5 Years (ha)	6-10 Years (ha)	11-15 Years (ha)	16-20 Years (ha)	21-25 Years (ha)	26-30 Years (ha)	31-35 Years (ha)	36-40 Years (ha)	41-50 Years (ha)	51-60 Years (ha)	61+ Year (ha)	
<b>Nelson and Marlborough wood supply region</b>												
Nelson City	0	0	0	0	0	5	C	0	0	0	C	12
Tasman District	4	C	C	6	47	100	39	37	40	C	0	278
Marlborough District	0	3	C	10	16	99	31	10	10	0	5	C
Kaikoura District	0	0	0	0	0	0	0	C	3	0	0	C
<b>Region total</b>	<b>4</b>	<b>C</b>	<b>4</b>	<b>16</b>	<b>63</b>	<b>204</b>	<b>C</b>	<b>C</b>	<b>53</b>	<b>C</b>	<b>C</b>	<b>481</b>
<b>West Coast wood supply region</b>												
Buller District	C	C	0	C	4	7	0	94	10	0	0	167
Grey District	C	0	C	C	C	6	C	C	2	0	0	C
Westland District	0	0	C	241	45	454	C	515	C	0	0	1,859
<b>Region total</b>	<b>54</b>	<b>C</b>	<b>113</b>	<b>277</b>	<b>C</b>	<b>467</b>	<b>537</b>	<b>C</b>	<b>C</b>	<b>0</b>	<b>0</b>	<b>2,199</b>
<b>Canterbury wood supply region</b>												
Hurunui District	C	0	0	C	6	35	5	10	0	0	C	85
Waimakariri District	0	0	0	0	3	97	20	3	0	0	0	123
Christchurch City	0	0	0	190	187	537	10	28	C	0	0	C
Selwyn District	C	0	0	0	9	25	C	4	2	0	C	197
Ashburton District	C	C	0	0	7	9	8	6	0	0	0	32
Timaru District	0	0	0	2	25	20	5	12	0	C	C	75
Mackenzie District	0	0	0	0	8	30	1	2	C	0	20	C
Waimate District	0	0	0	0	6	27	13	2	0	6	C	C
Banks Peninsula District	0	0	0	0	0	0	0	0	0	0	0	0
<b>Region total</b>	<b>92</b>	<b>C</b>	<b>0</b>	<b>C</b>	<b>251</b>	<b>780</b>	<b>C</b>	<b>67</b>	<b>16</b>	<b>C</b>	<b>38</b>	<b>1,594</b>
<b>Otago and Southland wood supply region</b>												
Waitaki District	C	C	C	2	6	49	5	14	6	0	3	117
Dunedin City	0	0	0	C	5	34	7	C	C	0	C	99
Queenstown-Lakes District	0	0	0	0	0	0	0	3	0	0	0	3
Central Otago District	0	0	0	0	11	48	15	7	1	C	0	C
Clutha District	C	26	0	7	28	26	23	28	24	4	2	C
Gore District	0	0	0	2	4	3	7	0	0	0	0	16
Southland District	C	C	4	10	52	99	16	17	5	1	2	348
Invercargill City	0	0	0	0	0	0	0	0	0	0	0	0
<b>Region total</b>	<b>101</b>	<b>100</b>	<b>C</b>	<b>C</b>	<b>106</b>	<b>259</b>	<b>73</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>854</b>
<b>South Island total</b>	<b>251</b>	<b>111</b>	<b>138</b>	<b>526</b>	<b>478</b>	<b>1,710</b>	<b>815</b>	<b>846</b>	<b>148</b>	<b>17</b>	<b>88</b>	<b>5,128</b>
<b>New Zealand total</b>	<b>1,901</b>	<b>885</b>	<b>1,004</b>	<b>1,407</b>	<b>2,236</b>	<b>3,430</b>	<b>1,343</b>	<b>1,438</b>	<b>490</b>	<b>57</b>	<b>199</b>	<b>14,390</b>

Figure 20: Distribution of other hardwoods forest area by age class and island, as at 1 April 2023

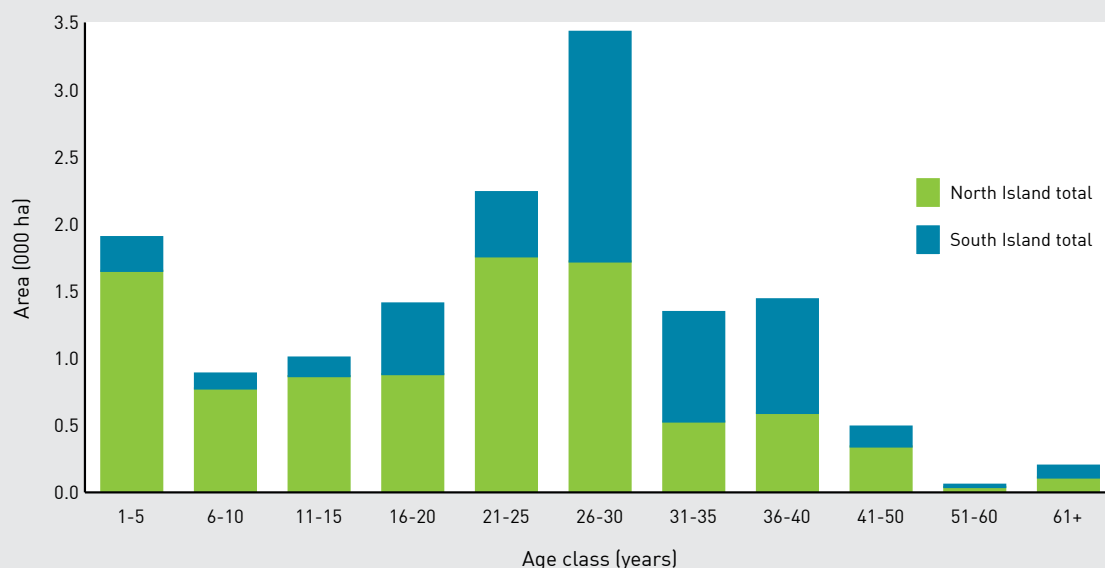


Table 17: Area planted in radiata pine pruned with production thinning by territorial authority, as at 1 April 2023

	Radiata pine pruned with production thinning											Total (ha)
	Age class (years)											
	1-5 Years (ha)	6-10 Years (ha)	11-15 Years (ha)	16-20 Years (ha)	21-25 Years (ha)	26-30 Years (ha)	31-35 Years (ha)	36-40 Years (ha)	41-50 Years (ha)	51-60 Years (ha)	61+ Year (ha)	
<b>Northland wood supply region</b>												
Far North District	103	74	C	208	1,243	2,072	1,283	1,864	168	4	0	C
Whangarei District	0	0	0	133	426	1,521	400	152	239	C	1	C
Kaipara District	C	150	0	25	606	1,937	177	71	95	4	4	C
Auckland Council	0	77	67	515	1,292	2,113	157	222	504	62	1	5,010
<b>Region total</b>	<b>C</b>	<b>301</b>	<b>C</b>	<b>881</b>	<b>3,567</b>	<b>7,643</b>	<b>2,017</b>	<b>2,309</b>	<b>1,006</b>	<b>C</b>	<b>6</b>	<b>18,162</b>
<b>Central North Island wood supply region</b>												
Thames-Coromandel District	0	0	76	36	82	398	34	123	93	0	0	842
Hauraki District	0	0	C	15	198	333	24	9	26	0	0	C
Waikato District	C	0	C	601	C	860	168	27	38	0	0	3,527
Matamata-Piako District	0	0	0	13	54	95	26	18	10	0	0	216
Hamilton City	C	0	0	0	C	0	C	1	0	0	0	C
Tauranga District	0	0	0	1	2	6	0	5	0	0	0	14
Western Bay of Plenty District	52	96	C	223	360	1,496	176	80	44	0	0	C
Rotorua District	C	0	171	C	911	1,007	285	32	164	C	C	3,724
Kawerau District	0	0	0	0	0	0	0	0	0	0	0	0
Whakatane District	C	C	C	C	1,211	712	59	17	43	6	0	4,426
Opotiki District	0	0	C	1	8	34	0	0	11	0	0	C
Waipa District	0	C	C	15	242	422	31	25	25	3	0	860
Otorohanga District	0	0	0	49	155	373	70	19	13	0	0	679
Waitomo District	206	C	50	52	697	1,435	147	89	37	0	0	C
Ruapehu District	858	0	C	156	1,183	3,104	57	44	39	0	0	C
South Waikato District	0	0	0	8	27	141	18	59	15	0	0	268
Taupo District	0	C	C	C	5,067	1,455	C	36	0	14	0	16,071
Franklin District	0	0	0	0	0	0	0	0	0	0	0	0
<b>Region total</b>	<b>1,154</b>	<b>271</b>	<b>3,967</b>	<b>10,044</b>	<b>11,992</b>	<b>11,871</b>	<b>1,746</b>	<b>584</b>	<b>558</b>	<b>C</b>	<b>C</b>	<b>42,217</b>
<b>East Coast wood supply region</b>												
Gisborne District	0	C	C	191	572	2,006	505	190	192	0	0	3,691
<b>Region total</b>	<b>0</b>	<b>C</b>	<b>C</b>	<b>191</b>	<b>572</b>	<b>2,006</b>	<b>505</b>	<b>190</b>	<b>192</b>	<b>0</b>	<b>0</b>	<b>3,691</b>
<b>Hawke's Bay wood supply region</b>												
Wairoa District	106	C	96	40	124	724	43	C	12	2	0	1,357
Hastings District	C	C	193	187	384	2,617	388	291	193	2	1	6,257
Napier City	0	0	0	0	0	6	0	2	0	0	0	8
Central Hawkes Bay District	C	215	166	139	881	2,226	263	230	262	7	0	C
<b>Region total</b>	<b>2,266</b>	<b>1,209</b>	<b>455</b>	<b>366</b>	<b>1,389</b>	<b>5,573</b>	<b>694</b>	<b>C</b>	<b>467</b>	<b>11</b>	<b>1</b>	<b>C</b>
<b>Southern North Island wood supply region</b>												
New Plymouth District	0	C	C	73	94	371	169	94	48	1	0	865
Stratford District	0	0	0	67	98	858	133	13	24	0	1	1,194
South Taranaki District	0	C	68	262	1,061	1,414	273	128	177	4	3	C
Whanganui District	0	94	13	892	2,782	3,941	341	27	45	29	0	8,164
Rangitikei District	422	78	121	295	580	2,699	193	207	199	4	0	4,798
Manawatu District	46	45	71	207	278	1,296	208	189	171	8	0	2,519
Kapiti Coast District	0	C	0	59	399	380	30	45	29	0	0	C
Upper Hutt City	0	0	0	6	96	C	49	30	27	5	24	C
Porirua City	0	0	0	0	14	90	C	164	7	0	0	C
Wellington City	0	0	C	0	C	0	77	2	2	0	0	172
Lower Hutt City	0	0	0	0	C	34	0	C	C	0	0	78
Palmerston North City	0	C	C	167	98	270	32	6	C	0	0	647
Tararua District	C	178	381	82	219	1,157	270	204	153	7	0	C
Masterton District	327	55	C	100	243	729	180	60	62	0	C	1,769
Horowhenua District	C	0	0	57	174	1,055	318	179	103	C	3	1,899
Carterton District	0	0	0	29	6	77	15	1	11	4	0	143
South Wairarapa District	0	C	C	74	166	152	37	C	13	13	0	505
<b>Region total</b>	<b>857</b>	<b>679</b>	<b>757</b>	<b>2,370</b>	<b>6,343</b>	<b>C</b>	<b>C</b>	<b>1,373</b>	<b>1,170</b>	<b>C</b>	<b>C</b>	<b>30,621</b>
<b>North Island total</b>	<b>4,413</b>	<b>2,468</b>	<b>5,324</b>	<b>13,852</b>	<b>23,863</b>	<b>41,705</b>	<b>7,305</b>	<b>4,992</b>	<b>3,393</b>	<b>295</b>	<b>48</b>	<b>107,658</b>

	Radiata pine pruned with production thinning											Total (ha)
	Age class (years)											
	1-5 Years (ha)	6-10 Years (ha)	11-15 Years (ha)	16-20 Years (ha)	21-25 Years (ha)	26-30 Years (ha)	31-35 Years (ha)	36-40 Years (ha)	41-50 Years (ha)	51-60 Years (ha)	61+ Year (ha)	
<b>Nelson and Marlborough wood supply region</b>												
Nelson City	0	0	0	0	5	C	0	0	0	0	0	C
Tasman District	62	0	57	144	418	1,650	317	256	96	10	1	3,011
Marlborough District	274	298	284	297	1,306	3,533	355	548	109	0	0	7,004
Kaikoura District	0	0	0	3	27	112	8	4	7	0	0	161
<b>Region total</b>	<b>336</b>	<b>298</b>	<b>341</b>	<b>444</b>	<b>1,756</b>	<b>C</b>	<b>680</b>	<b>808</b>	<b>212</b>	<b>10</b>	<b>1</b>	<b>C</b>
<b>West Coast wood supply region</b>												
Buller District	0	0	0	1	16	33	2	0	0	0	0	52
Grey District	0	C	C	0	7	173	11	44	91	0	0	436
Westland District	0	0	0	3	28	52	C	23	0	0	0	C
<b>Region total</b>	<b>0</b>	<b>C</b>	<b>C</b>	<b>4</b>	<b>51</b>	<b>258</b>	<b>C</b>	<b>67</b>	<b>91</b>	<b>0</b>	<b>0</b>	<b>C</b>
<b>Canterbury wood supply region</b>												
Hurunui District	0	C	28	279	530	1,488	268	201	188	C	3	3,055
Waimakariri District	0	0	0	32	81	956	273	75	8	26	0	1,451
Christchurch City	0	C	C	C	410	793	105	62	26	0	0	1,550
Selwyn District	0	0	C	2	86	464	191	90	108	C	0	970
Ashburton District	0	0	0	14	64	167	50	38	21	C	0	C
Timaru District	0	C	C	80	119	655	194	81	54	14	0	1,221
Mackenzie District	0	0	0	11	67	191	16	49	15	1	0	350
Waimate District	0	C	0	34	138	266	96	38	30	0	0	C
Banks Peninsula District	0	0	0	0	0	0	0	0	0	0	0	0
<b>Region total</b>	<b>0</b>	<b>38</b>	<b>54</b>	<b>C</b>	<b>1,495</b>	<b>4,980</b>	<b>1,193</b>	<b>634</b>	<b>450</b>	<b>152</b>	<b>3</b>	<b>9,585</b>
<b>Otago and Southland wood supply region</b>												
Waitaki District	0	0	C	59	310	827	79	67	146	2	0	C
Dunedin City	C	C	C	13	37	640	68	C	0	0	0	883
Queenstown-Lakes District	0	0	0	0	0	C	0	31	C	0	0	111
Central Otago District	0	0	0	C	29	50	16	85	C	0	C	266
Clutha District	C	C	39	148	575	2,017	380	76	83	16	0	3,775
Gore District	0	0	0	2	199	475	14	7	19	16	0	732
Southland District	131	61	163	162	1,697	1,096	219	201	291	C	0	C
Invercargill City	0	0	0	3	0	63	0	0	1	0	0	67
<b>Region total</b>	<b>564</b>	<b>101</b>	<b>225</b>	<b>C</b>	<b>2,847</b>	<b>C</b>	<b>776</b>	<b>C</b>	<b>615</b>	<b>C</b>	<b>C</b>	<b>11,401</b>
<b>South Island total</b>	<b>900</b>	<b>457</b>	<b>710</b>	<b>1,461</b>	<b>6,149</b>	<b>15,806</b>	<b>2,666</b>	<b>2,051</b>	<b>1,368</b>	<b>247</b>	<b>40</b>	<b>31,855</b>
<b>New Zealand total</b>	<b>5,313</b>	<b>2,925</b>	<b>6,034</b>	<b>15,313</b>	<b>30,012</b>	<b>57,511</b>	<b>9,971</b>	<b>7,043</b>	<b>4,761</b>	<b>542</b>	<b>88</b>	<b>139,513</b>

Figure 21: Distribution of radiata pine pruned with production thinning forest area by age class and island, as at 1 April 2023

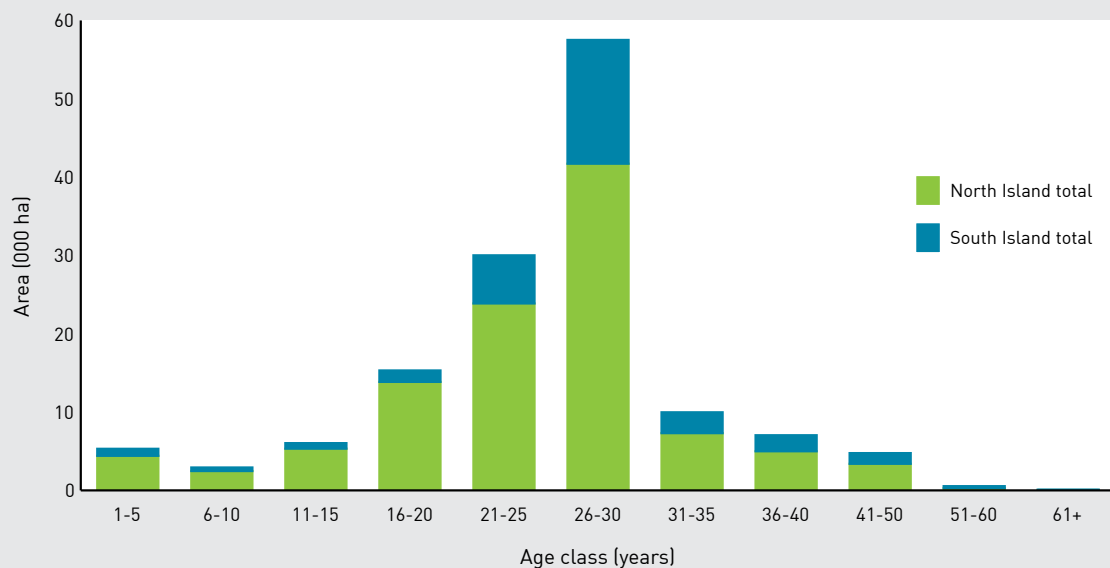


Table 18: Area planted in radiata pine unpruned with production thinning by territorial authority, as at 1 April 2023

	Radiata pine unpruned with production thinning											Total (ha)
	Age class (years)											
	1-5 Years (ha)	6-10 Years (ha)	11-15 Years (ha)	16-20 Years (ha)	21-25 Years (ha)	26-30 Years (ha)	31-35 Years (ha)	36-40 Years (ha)	41-50 Years (ha)	51-60 Years (ha)	61+ Year (ha)	
<b>Northland wood supply region</b>												
Far North District	688	2,591	2,827	C	C	58	0	C	207	C	0	9,328
Whangarei District	0	0	0	0	0	1	0	0	C	0	0	C
Kaipara District	0	0	0	C	13	C	0	0	0	C	0	C
Auckland Council	0	C	C	51	161	505	C	0	0	0	0	854
<b>Region total</b>	<b>688</b>	<b>C</b>	<b>C</b>	<b>1,876</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>57</b>	<b>0</b>	<b>C</b>
<b>Central North Island wood supply region</b>												
Thames-Coromandel District	C	13	53	224	C	98	0	0	C	0	0	771
Hauraki District	0	0	0	0	0	0	0	0	0	0	0	0
Waikato District	0	0	0	C	C	13	0	0	0	0	0	C
Matamata-Piako District	0	0	0	0	0	0	0	0	0	0	0	0
Hamilton City	0	0	0	0	0	0	0	0	0	0	0	0
Tauranga District	0	0	0	0	0	0	0	0	0	0	0	0
Western Bay of Plenty District	0	C	0	25	99	84	0	0	0	0	0	C
Rotorua District	C	C	C	C	56	116	0	0	0	0	C	C
Kawerau District	0	0	0	0	0	0	0	0	0	0	0	0
Whakatane District	C	C	522	348	183	108	0	0	0	0	0	C
Opotiki District	0	0	0	5	17	4	0	C	0	0	0	C
Waipa District	0	0	0	3	42	29	0	0	0	0	0	74
Otorohanga District	0	0	0	9	12	8	2	0	0	0	0	31
Waitomo District	0	C	0	37	265	448	C	0	0	0	0	789
Ruapehu District	0	C	C	93	725	553	C	C	0	0	0	C
South Waikato District	0	0	0	3	6	24	0	0	0	0	0	33
Taupo District	C	C	C	21	219	554	202	0	0	C	0	C
Franklin District	0	0	0	0	0	0	0	0	0	0	0	0
<b>Region total</b>	<b>26,583</b>	<b>10,542</b>	<b>1,610</b>	<b>923</b>	<b>2,133</b>	<b>2,039</b>	<b>242</b>	<b>63</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>44,179</b>
<b>East Coast wood supply region</b>												
Gisborne District	0	C	C	C	C	308	90	108	78	0	0	1,637
<b>Region total</b>	<b>0</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>308</b>	<b>90</b>	<b>108</b>	<b>78</b>	<b>0</b>	<b>0</b>	<b>1,637</b>
<b>Hawke's Bay wood supply region</b>												
Wairoa District	0	0	0	5	57	C	0	0	C	0	0	C
Hastings District	C	C	C	C	C	455	3	0	4	C	0	1,398
Napier City	0	0	0	0	0	0	0	0	0	0	0	0
Central Hawkes Bay District	0	0	0	0	23	8	8	15	4	0	0	58
<b>Region total</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>11</b>	<b>15</b>	<b>C</b>	<b>C</b>	<b>0</b>	<b>1,731</b>
<b>Southern North Island wood supply region</b>												
New Plymouth District	0	0	C	3	5	C	0	0	0	0	0	C
Stratford District	0	0	0	0	0	0	0	0	0	0	0	0
South Taranaki District	0	0	0	0	0	12	0	3	2	0	0	17
Whanganui District	C	C	C	C	0	C	C	0	0	0	0	574
Rangitikei District	0	0	C	C	C	C	C	0	9	0	C	C
Manawatu District	0	0	0	1	1	10	0	C	0	0	0	C
Kapiti Coast District	0	0	0	0	0	10	0	0	0	0	0	10
Upper Hutt City	0	0	0	0	0	0	0	0	0	0	0	0
Porirua City	0	0	0	0	0	0	0	0	0	0	0	0
Wellington City	C	0	0	0	C	0	0	C	0	0	0	C
Lower Hutt City	0	0	0	0	0	0	0	0	0	0	0	0
Palmerston North City	0	0	0	0	1	41	0	0	0	0	0	42
Tararua District	0	0	0	13	46	177	7	30	11	0	0	284
Masterton District	C	C	C	72	59	151	16	23	4	0	0	489
Horowhenua District	C	198	454	650	667	280	0	0	C	C	C	2,712
Carterton District	0	0	0	0	1	7	0	3	0	0	0	11
South Wairarapa District	0	C	C	103	228	21	10	6	3	0	0	415
<b>Region total</b>	<b>549</b>	<b>422</b>	<b>949</b>	<b>1,639</b>	<b>1,845</b>	<b>1,370</b>	<b>61</b>	<b>81</b>	<b>C</b>	<b>C</b>	<b>35</b>	<b>C</b>
<b>North Island total</b>	<b>27,879</b>	<b>14,199</b>	<b>5,890</b>	<b>4,665</b>	<b>5,999</b>	<b>5,225</b>	<b>409</b>	<b>291</b>	<b>399</b>	<b>65</b>	<b>36</b>	<b>65,057</b>



	Radiata pine unpruned with production thinning											Total (ha)
	Age class (years)											
	1-5 Years (ha)	6-10 Years (ha)	11-15 Years (ha)	16-20 Years (ha)	21-25 Years (ha)	26-30 Years (ha)	31-35 Years (ha)	36-40 Years (ha)	41-50 Years (ha)	51-60 Years (ha)	61+ Year (ha)	
<b>Nelson and Marlborough wood supply region</b>												
Nelson City	0	0	0	0	4	C	0	0	0	0	0	C
Tasman District	C	C	57	233	111	346	67	107	62	23	0	1,096
Marlborough District	0	C	C	46	58	314	151	50	206	C	0	854
Kaikoura District	0	0	0	0	0	6	0	0	0	0	0	6
<b>Region total</b>	<b>C</b>	<b>69</b>	<b>C</b>	<b>279</b>	<b>173</b>	<b>C</b>	<b>218</b>	<b>157</b>	<b>268</b>	<b>C</b>	<b>0</b>	<b>C</b>
<b>West Coast wood supply region</b>												
Buller District	0	0	0	0	0	0	0	0	0	0	0	0
Grey District	0	0	0	0	4	1	0	0	0	0	0	5
Westland District	0	0	0	0	0	0	0	0	4	0	0	4
<b>Region total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>9</b>
<b>Canterbury wood supply region</b>												
Hurunui District	C	15	7	117	133	439	58	35	47	0	0	C
Waimakariri District	0	0	0	9	13	142	36	14	10	C	C	232
Christchurch City	0	0	0	2	59	46	C	C	0	1	0	118
Selwyn District	0	0	0	33	218	267	12	6	23	0	C	C
Ashburton District	0	0	0	3	8	44	20	0	37	0	0	112
Timaru District	C	C	0	1	1	33	49	22	4	0	0	316
Mackenzie District	0	C	C	8	22	28	13	C	22	C	0	252
Waimate District	C	C	0	0	19	65	C	2	3	1	0	211
Banks Peninsula District	0	0	0	0	0	0	0	0	0	0	0	0
<b>Region total</b>	<b>307</b>	<b>83</b>	<b>C</b>	<b>173</b>	<b>473</b>	<b>1,064</b>	<b>204</b>	<b>102</b>	<b>146</b>	<b>27</b>	<b>6</b>	<b>2,703</b>
<b>Otago and Southland wood supply region</b>												
Waitaki District	0	C	0	1	16	84	C	C	C	0	0	187
Dunedin City	0	0	0	0	C	14	0	C	0	0	0	C
Queenstown-Lakes District	0	0	0	0	1	0	0	0	0	0	0	1
Central Otago District	0	0	0	0	0	3	0	0	0	0	0	3
Clutha District	0	C	C	186	C	60	0	C	C	0	0	666
Gore District	0	0	0	0	6	38	0	0	0	0	0	44
Southland District	0	C	78	37	688	140	15	C	35	C	0	1,059
Invercargill City	0	0	0	0	5	6	0	0	0	0	0	11
<b>Region total</b>	<b>0</b>	<b>38</b>	<b>C</b>	<b>224</b>	<b>1,071</b>	<b>345</b>	<b>C</b>	<b>92</b>	<b>62</b>	<b>C</b>	<b>0</b>	<b>2,000</b>
<b>South Island total</b>	<b>351</b>	<b>190</b>	<b>265</b>	<b>676</b>	<b>1,721</b>	<b>2,084</b>	<b>452</b>	<b>351</b>	<b>480</b>	<b>104</b>	<b>6</b>	<b>6,680</b>
<b>New Zealand total</b>	<b>28,230</b>	<b>14,389</b>	<b>6,155</b>	<b>5,341</b>	<b>7,720</b>	<b>7,309</b>	<b>861</b>	<b>642</b>	<b>879</b>	<b>169</b>	<b>42</b>	<b>71,737</b>

Figure 22: Distribution of radiata pine unpruned with production thinning forest area by age class and island, as at 1 April 2023

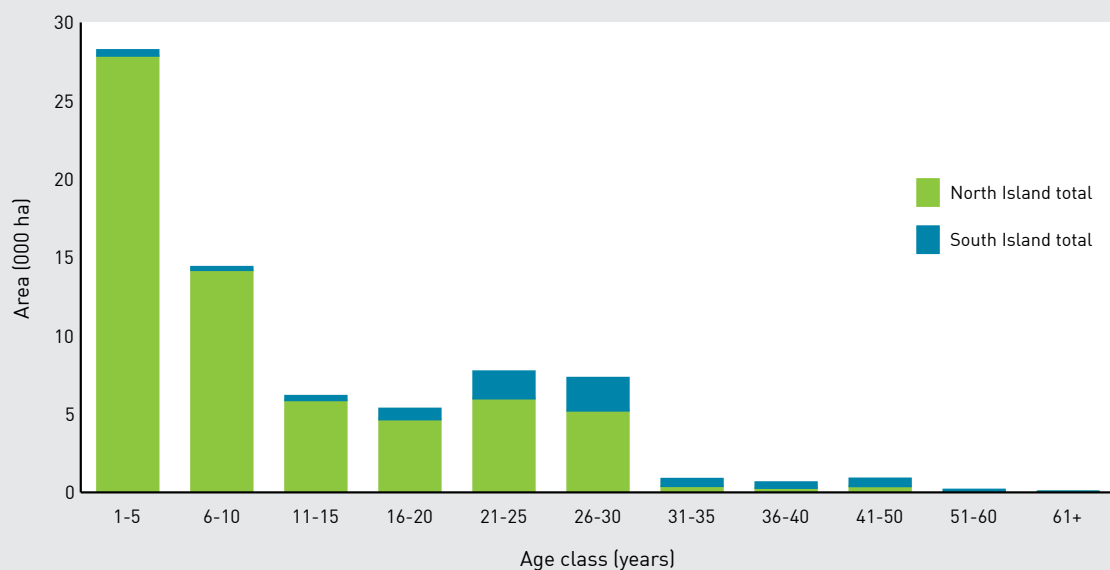


Table 19: Area planted in radiata pine pruned without production thinning by territorial authority, as at 1 April 2023

	Radiata pine pruned without production thinning											Total (ha)
	Age class (years)											
	1-5 Years (ha)	6-10 Years (ha)	11-15 Years (ha)	16-20 Years (ha)	21-25 Years (ha)	26-30 Years (ha)	31-35 Years (ha)	36-40 Years (ha)	41-50 Years (ha)	51-60 Years (ha)	61+ Year (ha)	
<b>Northland wood supply region</b>												
Far North District	364	439	1,141	1,855	3,745	7,741	1,438	695	216	7	0	17,641
Whangarei District	C	671	269	583	2,122	3,191	186	60	97	0	2	C
Kaipara District	998	C	280	827	1,969	2,773	111	16	47	C	C	7,052
Auckland Council	C	226	498	869	1,244	3,041	183	191	167	C	2	6,473
<b>Region total</b>	<b>1,704</b>	<b>C</b>	<b>2,188</b>	<b>4,134</b>	<b>9,080</b>	<b>16,746</b>	<b>1,918</b>	<b>962</b>	<b>527</b>	<b>16</b>	<b>C</b>	<b>C</b>
<b>Central North Island wood supply region</b>												
Thames-Coromandel District	592	C	C	101	86	420	96	C	C	C	0	2,914
Hauraki District	C	C	C	6	518	738	C	8	0	0	0	1,503
Waikato District	277	514	C	374	1,392	2,529	354	46	C	0	C	6,480
Matamata-Piako District	0	56	C	C	48	247	C	4	9	0	0	533
Hamilton City	0	0	0	0	0	0	0	0	0	0	0	0
Tauranga District	0	0	0	9	24	30	16	0	0	0	0	79
Western Bay of Plenty District	70	415	312	216	2,210	2,365	108	65	C	0	0	C
Rotorua District	96	1,201	1,452	1,052	3,968	3,532	341	30	49	C	C	11,723
Kawerau District	0	0	0	0	0	C	0	0	0	0	0	C
Whakatane District	46	383	3,042	1,418	C	5,774	234	48	25	6	0	C
Opotiki District	C	682	308	280	598	324	C	74	C	0	0	2,471
Waipa District	0	C	94	C	259	178	32	7	C	0	0	675
Otorohanga District	314	C	44	693	395	548	77	8	22	0	0	C
Waitomo District	1,219	C	C	761	3,192	5,041	C	131	C	0	0	10,636
Ruapehu District	1,698	152	410	735	2,985	3,017	540	C	C	0	0	9,960
South Waikato District	22	32	C	254	862	490	C	C	8	0	0	1,703
Taupo District	8,899	3,567	10,418	13,271	11,138	5,847	367	267	47	C	C	53,857
Franklin District	0	0	0	0	0	0	0	0	0	0	0	0
<b>Region total</b>	<b>13,295</b>	<b>7,562</b>	<b>17,660</b>	<b>19,337</b>	<b>C</b>	<b>C</b>	<b>2,532</b>	<b>1,758</b>	<b>748</b>	<b>19</b>	<b>46</b>	<b>128,016</b>
<b>East Coast wood supply region</b>												
Gisborne District	5,356	5,432	7,219	6,138	17,411	32,236	3,417	2,292	1,097	20	0	80,618
<b>Region total</b>	<b>5,356</b>	<b>5,432</b>	<b>7,219</b>	<b>6,138</b>	<b>17,411</b>	<b>32,236</b>	<b>3,417</b>	<b>2,292</b>	<b>1,097</b>	<b>20</b>	<b>0</b>	<b>80,618</b>
<b>Hawke's Bay wood supply region</b>												
Wairoa District	4,239	3,663	5,345	6,121	6,404	15,445	C	67	207	C	0	41,568
Hastings District	3,153	2,630	1,981	4,098	5,756	8,425	486	75	133	8	3	26,748
Napier City	0	0	0	0	0	0	0	0	0	0	0	0
Central Hawkes Bay District	294	94	596	639	2,308	2,840	105	40	64	9	C	C
<b>Region total</b>	<b>7,686</b>	<b>6,387</b>	<b>7,922</b>	<b>10,858</b>	<b>14,468</b>	<b>26,710</b>	<b>C</b>	<b>182</b>	<b>404</b>	<b>C</b>	<b>C</b>	<b>C</b>
<b>Southern North Island wood supply region</b>												
New Plymouth District	0	52	132	108	C	546	47	28	28	0	0	C
Stratford District	41	C	0	95	124	1,655	74	53	C	0	0	2,228
South Taranaki District	124	72	10	183	485	2,182	203	68	123	0	0	3,450
Whanganui District	C	917	709	1,064	1,372	5,302	685	118	50	6	C	10,518
Rangitikei District	C	204	88	261	2,719	3,087	95	55	91	2	0	C
Manawatu District	0	19	C	139	272	889	213	65	98	1	0	C
Kapiti Coast District	34	63	63	105	182	684	96	73	8	0	0	1,308
Upper Hutt City	0	0	C	325	253	365	43	14	19	0	C	1,021
Porirua City	0	C	C	123	C	169	C	0	C	C	0	405
Wellington City	0	0	0	8	13	268	2	C	0	0	0	C
Lower Hutt City	0	0	0	0	C	26	0	0	C	0	0	81
Palmerston North City	0	C	C	1	7	241	31	11	C	0	0	728
Tararua District	302	C	C	560	430	1,447	423	129	176	23	C	5,164
Masterton District	3,641	2,172	2,159	2,374	3,638	8,889	507	1,009	188	C	C	24,593
Horowhenua District	C	C	C	106	83	454	77	34	33	C	0	1,088
Carterton District	315	1,320	C	552	2,244	1,335	224	51	122	0	0	C
South Wairarapa District	0	C	471	328	1,151	1,370	24	35	25	0	0	C
<b>Region total</b>	<b>5,003</b>	<b>6,414</b>	<b>6,093</b>	<b>6,332</b>	<b>13,590</b>	<b>28,909</b>	<b>C</b>	<b>C</b>	<b>1,118</b>	<b>50</b>	<b>70</b>	<b>72,116</b>
<b>North Island total</b>	<b>33,044</b>	<b>27,150</b>	<b>41,082</b>	<b>46,799</b>	<b>88,522</b>	<b>135,687</b>	<b>11,311</b>	<b>6,954</b>	<b>3,894</b>	<b>123</b>	<b>129</b>	<b>394,695</b>

	Radiata pine pruned without production thinning											Total (ha)
	Age class [years]											
	1-5 Years (ha)	6-10 Years (ha)	11-15 Years (ha)	16-20 Years (ha)	21-25 Years (ha)	26-30 Years (ha)	31-35 Years (ha)	36-40 Years (ha)	41-50 Years (ha)	51-60 Years (ha)	61+ Year (ha)	
<b>Nelson and Marlborough wood supply region</b>												
Nelson City	0	C	C	C	64	364	C	9	C	C	0	603
Tasman District	274	645	330	390	3,896	5,585	225	225	134	11	0	11,715
Marlborough District	742	2,015	855	2,003	4,163	11,502	968	954	452	C	0	C
Kaikoura District	C	C	C	C	117	570	7	2	C	0	0	848
<b>Region total</b>	<b>C</b>	<b>2,785</b>	<b>1,262</b>	<b>2,439</b>	<b>8,240</b>	<b>18,021</b>	<b>C</b>	<b>1,190</b>	<b>638</b>	<b>82</b>	<b>0</b>	<b>C</b>
<b>West Coast wood supply region</b>												
Buller District	0	0	0	11	55	474	27	6	C	C	0	616
Grey District	0	C	C	C	C	725	49	32	184	C	0	C
Westland District	0	0	0	477	621	700	C	55	48	C	0	1,927
<b>Region total</b>	<b>0</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>1,899</b>	<b>C</b>	<b>93</b>	<b>C</b>	<b>86</b>	<b>0</b>	<b>6,045</b>
<b>Canterbury wood supply region</b>												
Hurunui District	C	72	C	392	1,106	1,880	202	285	174	C	0	4,567
Waimakariri District	0	C	396	82	195	489	205	25	4	0	0	C
Christchurch City	0	C	C	154	479	1,917	56	236	114	7	1	3,154
Selwyn District	0	C	C	43	177	571	8	C	5	0	0	860
Ashburton District	C	C	C	44	91	214	21	5	3	0	0	460
Timaru District	C	C	92	329	279	961	153	C	1	0	0	2,384
Mackenzie District	C	C	C	36	164	771	26	25	41	C	0	1,180
Waimate District	C	C	C	260	1,173	1,476	87	C	C	0	0	3,441
Banks Peninsula District	0	0	0	0	0	0	0	0	0	0	0	0
<b>Region total</b>	<b>383</b>	<b>753</b>	<b>1,060</b>	<b>1,340</b>	<b>3,664</b>	<b>8,279</b>	<b>758</b>	<b>950</b>	<b>C</b>	<b>18</b>	<b>1</b>	<b>C</b>
<b>Otago and Southland wood supply region</b>												
Waitaki District	368	705	524	463	3,101	2,868	94	C	70	34	5	C
Dunedin City	972	1,339	301	C	910	1,802	309	128	47	C	0	6,314
Queenstown-Lakes District	0	0	0	0	0	6	11	0	2	3	1	23
Central Otago District	C	0	11	C	114	602	23	104	79	C	0	986
Clutha District	6,794	2,719	1,632	3,062	8,061	10,934	421	206	244	205	C	C
Gore District	0	0	C	C	290	256	18	6	0	1	0	601
Southland District	994	1,600	2,799	2,026	3,941	5,845	238	72	224	12	0	17,751
Invercargill City	C	274	C	34	65	102	51	C	17	C	0	667
<b>Region total</b>	<b>9,194</b>	<b>6,637</b>	<b>5,342</b>	<b>6,146</b>	<b>16,482</b>	<b>22,415</b>	<b>1,165</b>	<b>825</b>	<b>683</b>	<b>264</b>	<b>C</b>	<b>69,335</b>
<b>South Island total</b>	<b>10,601</b>	<b>10,208</b>	<b>7,668</b>	<b>11,309</b>	<b>30,577</b>	<b>50,614</b>	<b>3,216</b>	<b>3,058</b>	<b>1,954</b>	<b>450</b>	<b>183</b>	<b>129,838</b>
<b>New Zealand total</b>	<b>43,645</b>	<b>37,358</b>	<b>48,750</b>	<b>58,108</b>	<b>119,099</b>	<b>186,301</b>	<b>14,527</b>	<b>10,012</b>	<b>5,848</b>	<b>573</b>	<b>312</b>	<b>524,533</b>

Figure 23: Distribution of radiata pine pruned without production thinning forest area by age class and island, as at 1 April 2023

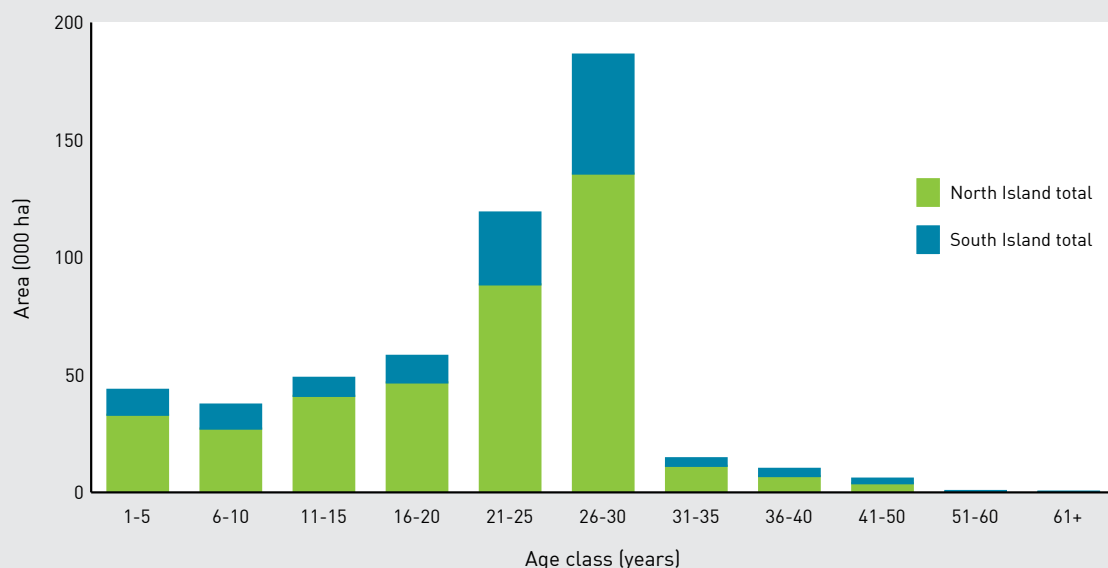
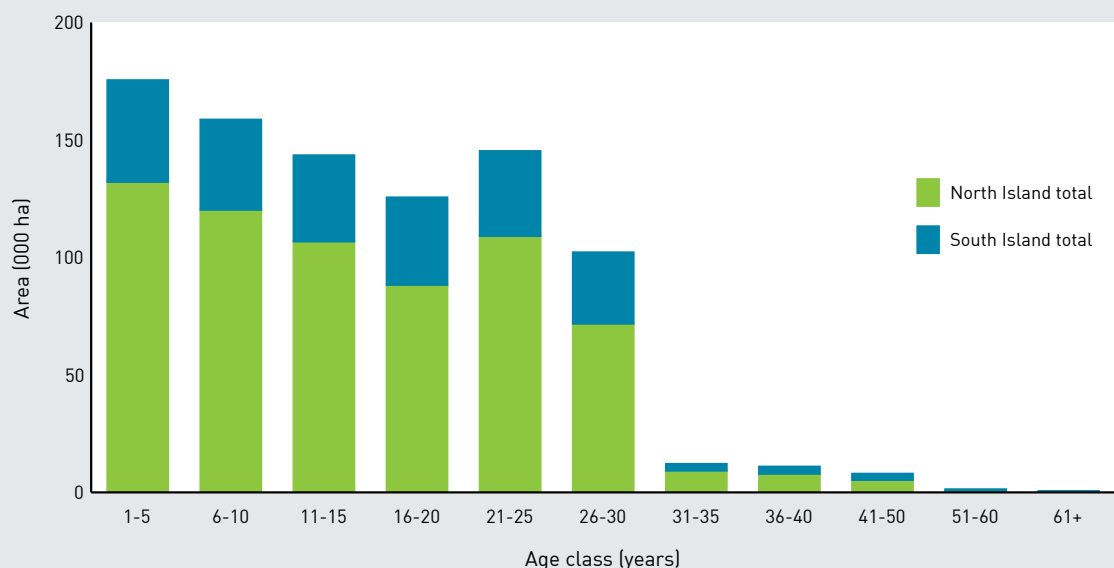


Table 20: Area planted in radiata pine unpruned without production thinning by territorial authority, as at 1 April 2023

	Radiata pine unpruned without production thinning											Total (ha)
	Age class (years)											
	1-5 Years (ha)	6-10 Years (ha)	11-15 Years (ha)	16-20 Years (ha)	21-25 Years (ha)	26-30 Years (ha)	31-35 Years (ha)	36-40 Years (ha)	41-50 Years (ha)	51-60 Years (ha)	61+ Year (ha)	
<b>Northland wood supply region</b>												
Far North District	16,339	13,354	10,732	5,325	4,454	3,832	536	839	338	C	1	C
Whangarei District	5,621	5,943	3,880	2,460	2,505	1,602	134	223	104	15	0	22,487
Kaipara District	11,341	7,354	2,577	2,092	2,569	2,593	753	233	65	11	4	29,592
Auckland Council	C	2,633	3,558	4,991	6,696	3,043	124	182	137	23	7	C
<b>Region total</b>	<b>C</b>	<b>29,284</b>	<b>20,747</b>	<b>14,868</b>	<b>16,224</b>	<b>11,070</b>	<b>1,547</b>	<b>1,477</b>	<b>644</b>	<b>C</b>	<b>12</b>	<b>132,444</b>
<b>Central North Island wood supply region</b>												
Thames-Coromandel District	1,722	3,206	4,270	4,447	3,238	1,687	110	191	142	23	C	C
Hauraki District	231	C	C	C	177	441	0	4	C	C	0	1,312
Waikato District	1,836	587	423	993	1,438	1,824	72	92	45	15	4	7,329
Matamata-Piako District	C	C	C	221	27	81	30	10	67	0	0	866
Hamilton City	0	0	0	0	0	0	0	0	0	0	0	0
Tauranga District	0	0	0	0	0	0	0	0	0	0	0	0
Western Bay of Plenty District	3,150	2,552	1,782	2,065	2,233	361	49	51	54	C	0	C
Rotorua District	5,674	4,623	5,951	6,963	5,833	1,021	132	48	47	C	C	30,307
Kawerau District	C	0	0	C	C	0	0	0	0	0	0	C
Whakatane District	10,382	14,613	15,899	10,884	15,525	2,026	45	70	39	7	C	C
Opotiki District	1,729	3,290	2,602	704	769	589	C	700	22	0	0	C
Waipa District	C	C	C	31	124	119	13	4	3	0	2	546
Otorohanga District	680	C	C	146	570	842	C	72	8	0	0	2,452
Waitomo District	1,506	550	C	2,653	1,475	1,800	89	155	55	0	0	C
Ruapehu District	6,252	7,351	6,728	1,903	5,648	7,446	555	C	236	C	0	36,991
South Waikato District	10,409	C	C	C	C	C	C	16	C	C	C	C
Taupo District	6,356	27,346	13,043	11,733	14,233	7,471	562	99	80	30	C	C
Franklin District	0	0	0	0	0	0	0	0	0	0	0	0
<b>Region total</b>	<b>50,886</b>	<b>71,749</b>	<b>60,182</b>	<b>54,026</b>	<b>64,444</b>	<b>C</b>	<b>2,373</b>	<b>C</b>	<b>808</b>	<b>116</b>	<b>115</b>	<b>337,981</b>
<b>East Coast wood supply region</b>												
Gisborne District	14,451	10,366	11,784	5,953	9,239	10,580	2,120	1,635	1,778	C	6	C
<b>Region total</b>	<b>14,451</b>	<b>10,366</b>	<b>11,784</b>	<b>5,953</b>	<b>9,239</b>	<b>10,580</b>	<b>2,120</b>	<b>1,635</b>	<b>1,778</b>	<b>C</b>	<b>6</b>	<b>C</b>
<b>Hawke's Bay wood supply region</b>												
Wairoa District	8,726	326	2,401	2,297	1,609	1,390	97	15	98	C	0	C
Hastings District	6,682	2,806	4,910	5,511	4,494	3,565	147	159	121	46	21	28,462
Napier City	0	0	0	0	0	1	0	6	0	0	0	7
Central Hawkes Bay District	573	30	256	189	1,506	1,323	186	171	86	27	15	4,362
<b>Region total</b>	<b>15,981</b>	<b>3,162</b>	<b>7,567</b>	<b>7,997</b>	<b>7,609</b>	<b>6,279</b>	<b>430</b>	<b>351</b>	<b>305</b>	<b>C</b>	<b>36</b>	<b>C</b>
<b>Southern North Island wood supply region</b>												
New Plymouth District	C	42	C	40	153	391	41	26	50	0	0	1,466
Stratford District	708	C	234	421	164	401	51	C	10	0	0	2,392
South Taranaki District	C	C	C	302	356	321	297	188	98	23	5	2,181
Whanganui District	739	585	1,211	667	440	554	32	113	109	C	C	4,461
Rangitikei District	1,163	C	C	285	1,632	1,944	69	65	162	C	3	6,318
Manawatu District	197	C	C	215	381	851	76	C	101	7	5	2,401
Kapiti Coast District	C	C	0	76	166	11	158	C	21	0	0	713
Upper Hutt City	C	C	C	338	613	442	275	C	175	C	10	3,371
Porirua City	C	0	C	C	0	147	237	5	C	0	0	507
Wellington City	0	0	0	0	16	23	19	0	0	0	0	58
Lower Hutt City	0	0	0	0	0	28	0	7	31	0	0	66
Palmerston North City	C	9	C	225	53	112	25	13	64	0	0	1,412
Tararua District	2,809	1,691	1,631	878	1,823	2,812	258	339	241	19	13	12,514
Masterton District	4,602	949	324	508	1,053	2,358	465	448	307	169	12	11,195
Horowhenua District	365	207	524	744	217	614	96	101	111	0	7	2,986
Carterton District	C	C	C	328	4,006	796	152	56	80	51	0	6,669
South Wairarapa District	1,565	322	C	465	558	1,213	579	174	169	23	2	C
<b>Region total</b>	<b>14,394</b>	<b>5,744</b>	<b>6,536</b>	<b>C</b>	<b>11,631</b>	<b>13,018</b>	<b>2,830</b>	<b>2,111</b>	<b>C</b>	<b>471</b>	<b>C</b>	<b>C</b>
<b>North Island total</b>	<b>132,178</b>	<b>120,305</b>	<b>106,816</b>	<b>88,342</b>	<b>109,147</b>	<b>71,846</b>	<b>9,300</b>	<b>7,957</b>	<b>5,328</b>	<b>830</b>	<b>235</b>	<b>652,284</b>

	Radiata pine unpruned without production thinning											Total (ha)
	Age class [years]											
	1-5 Years (ha)	6-10 Years (ha)	11-15 Years (ha)	16-20 Years (ha)	21-25 Years (ha)	26-30 Years (ha)	31-35 Years (ha)	36-40 Years (ha)	41-50 Years (ha)	51-60 Years (ha)	61+ Year (ha)	
<b>Nelson and Marlborough wood supply region</b>												
Nelson City	1,284	752	2,064	1,329	1,404	643	0	49	44	C	0	C
Tasman District	12,023	8,264	12,471	13,358	9,208	4,804	263	348	391	107	18	61,255
Marlborough District	5,863	11,080	5,939	5,037	4,632	6,975	565	685	423	71	26	41,296
Kaikoura District	C	0	0	C	30	27	C	16	14	0	2	C
<b>Region total</b>	<b>C</b>	<b>20,096</b>	<b>20,474</b>	<b>C</b>	<b>15,274</b>	<b>12,449</b>	<b>C</b>	<b>1,098</b>	<b>872</b>	<b>C</b>	<b>46</b>	<b>C</b>
<b>West Coast wood supply region</b>												
Buller District	C	C	C	C	75	39	16	36	72	4	0	C
Grey District	2,531	C	C	C	C	191	0	C	C	C	0	C
Westland District	C	C	C	C	167	C	8	0	C	C	0	C
<b>Region total</b>	<b>3,693</b>	<b>3,061</b>	<b>2,666</b>	<b>2,653</b>	<b>C</b>	<b>C</b>	<b>24</b>	<b>C</b>	<b>514</b>	<b>99</b>	<b>0</b>	<b>13,714</b>
<b>Canterbury wood supply region</b>												
Hurunui District	1,678	C	C	3,488	5,510	3,643	363	113	117	4	14	18,982
Waimakariri District	219	C	108	678	1,249	1,726	53	56	35	C	2	4,449
Christchurch City	344	512	295	133	261	596	177	95	122	5	23	2,563
Selwyn District	C	C	695	331	647	1,181	240	226	127	19	0	5,938
Ashburton District	C	C	C	223	148	196	11	44	0	8	21	1,367
Timaru District	C	C	96	108	183	884	168	88	7	11	0	2,704
Mackenzie District	C	16	C	23	63	212	21	12	45	14	2	547
Waimate District	C	C	C	368	478	503	83	106	38	C	C	3,493
Banks Peninsula District	0	0	0	0	0	0	0	0	0	0	0	0
<b>Region total</b>	<b>5,392</b>	<b>5,477</b>	<b>3,818</b>	<b>5,352</b>	<b>8,539</b>	<b>8,941</b>	<b>1,116</b>	<b>740</b>	<b>491</b>	<b>89</b>	<b>C</b>	<b>40,043</b>
<b>Otago and Southland wood supply region</b>												
Waitaki District	3,106	1,818	1,816	C	777	1,110	68	44	48	16	5	C
Dunedin City	1,167	C	C	253	104	602	C	47	58	0	0	7,096
Queenstown-Lakes District	0	0	0	C	13	25	11	6	13	1	6	C
Central Otago District	C	C	0	36	64	337	21	41	40	8	16	959
Clutha District	4,689	2,316	3,350	5,355	4,807	2,507	233	254	162	11	3	23,687
Gore District	C	0	C	35	321	451	34	21	35	20	1	988
Southland District	4,918	3,341	1,877	3,304	5,581	3,433	259	671	348	20	16	23,768
Invercargill City	C	0	C	6	6	C	31	8	2	C	0	C
<b>Region total</b>	<b>14,321</b>	<b>9,668</b>	<b>9,637</b>	<b>9,398</b>	<b>11,673</b>	<b>C</b>	<b>C</b>	<b>1,092</b>	<b>706</b>	<b>C</b>	<b>47</b>	<b>65,934</b>
<b>South Island total</b>	<b>43,201</b>	<b>38,302</b>	<b>36,595</b>	<b>37,139</b>	<b>36,065</b>	<b>30,272</b>	<b>2,782</b>	<b>2,972</b>	<b>2,583</b>	<b>448</b>	<b>181</b>	<b>230,540</b>
<b>New Zealand total</b>	<b>175,379</b>	<b>158,607</b>	<b>143,411</b>	<b>125,481</b>	<b>145,212</b>	<b>102,118</b>	<b>12,082</b>	<b>10,929</b>	<b>7,911</b>	<b>1,278</b>	<b>416</b>	<b>882,824</b>

Figure 24: Distribution of radiata pine unpruned without production thinning forest area by age class and island, as at 1 April 2023



# Appendix 1: Glossary

**Afforestation:** The planting of trees for the primary purpose of producing wood or wood fibre, on land that has not previously been used for growing planted production forests.

**Age:** The ages of forest areas are as at 1 April of the survey year. A forest area is age one as at 1 April 2023 if it was planted in the preceding 12-month period, that is, between 1 April 2022 and 31 March 2023.

**Confidentiality:** Figures are considered confidential if the figure is made up of fewer than three owners' information or where one owner's data makes up more than 80 percent of the number. Forest owners are asked whether they are prepared to waive these strict confidentiality criteria in relation to the data they supply.

If a number is deemed confidential and one of the contributors to the confidential number is not prepared to waive the confidentiality rules, then that number is suppressed and secondary suppression is applied to other cells in the table; see Suppression (Secondary) below.

**Clear fell:** To harvest all merchantable trees within a specified physical area of land.

**Crop type:** For the purpose of the NEFD, a crop type is defined as an aggregate of forest stands of the same species group and tending regime located within the same territorial authority area. The crop type definitions are mutually exclusive.

Land cover types prior to afforestation:

- "Improved pasture" is land that contains improved pasture species, often used for grazing or animal feed, and/or has been fertilised.
- "Unimproved pasture" is land with no improved pasture species and that has not been fertilised.
- "Other woody land" is land predominantly covered in species such as bracken, gorse, mānuka, kānuka or other woody plant species.

**Net stocked forest area:** The planted production forest area occupied by trees, excluding mappable gaps such as landings, roads and other unstocked areas.

**New planting:** See afforestation.

**Planted production forest:** An area of trees not less than one hectare in size, planted and managed with the intention of producing wood or wood fibre. In New Zealand, almost all planted production forests are made up of exotic (introduced) tree species.

The NEFD survey does not aim to collect information on individual forests. Instead, it collects the forest area by crop type of all forests administered by each forest owner or manager.

**Recoverable volume:** The volume of a tree (in cubic metres) excluding, for example, non-recoverable volume such as stumps and the non-merchantable tops of stems and bark.

**Replanting:** The replanting of a planted production forest area that has been clear felled.

**Rotation number:** The first rotation is a stand of forest planted on land not previously in planted forest. The second and subsequent rotations are stands of forest growing on land from which a previous forest crop has been grown and harvested.

**Species group:** Six groupings of tree species are used to describe the national planted production forest resource:

- Radiata pine (*Pinus radiata*).
- Douglas-fir (*Pseudotsuga menziesii*).
- Cypress species.
- Other softwoods.
- Eucalypt species.
- Other hardwoods.

Where a mixture of species is present, the area is allocated to the crop type of the dominant species group.

**Stand:** A defined area of standing trees or forest, usually of one species, age and tending regime.

**Standing volume:** The total recoverable volume (in cubic metres) of wood contained in all live crop stems of all age classes.

**Suppression (primary):** The removal of a cell's value when it has been deemed sensitive.

**Suppression (secondary):** The suppression of other cells or marginal totals in the table so that the suppressed cell cannot be recalculated.

**Tending regime:** The tending regime is based on the current management, or prior to application of tending, the intention to carry out pruning or production thinning.

\*

# Appendix 2: NEFD Steering Committee's Terms of Reference

The New Zealand Forest Owners Association (FOA), the New Zealand Farm Forestry Association (NZFFA), and the Ministry for Primary Industries (MPI) have agreed that the Steering Committee shall:

1. Review and contribute to the five-year strategic plan, which outlines long term strategies to maintain the quality of planted production forest resource information collected and plans for projects of a longer-term nature such as wood supply forecasts.
2. Review the annual work plan for NEFD activity, outlining details of statistics to be collected, how they are to be handled, the analysis to be performed and products to be produced during the year.
3. Monitor user satisfaction with the NEFD outputs through the use of client surveys and through direct discussion with user representatives.
4. Encourage forest owners to contribute to the NEFD survey in a timely manner.
5. Highlight areas of concern with draft numbers and suggest options for improving the quality of the data.
6. Provide feedback and sense checking on draft results.
7. Commission forecasts of future wood supply from New Zealand's planted production forests.
8. Advertise and promote the availability of NEFD reports.
9. Advocate and review new pieces of work /research by suitable bodies to improve the quality of NEFD information.
10. Providing direction, guidance and expertise.

# Appendix 3: NEFD Steering Committee

The NEFD Steering Committee currently comprises seven representatives nominated by the New Zealand Forest Owners' Association, the New Zealand Farm Forestry Association, and the Ministry for Primary Industries. The current members are:

Member	Nominated By
Bert Hughes (Chairman) Forest Enterprises	Forest Enterprises
Wido van Lijf Ministry for Primary Industries	Ministry for Primary Industries
Debbie Ward Te Uru Rākau	Te Uru Rākau
Rebecca Burson Te Uru Rākau	Te Uru Rākau
Paul Lane Ministry for Primary Industries	Ministry for Primary Industries
Joseph Brolly New Zealand Forest Owners Association	New Zealand Forest Owners Association
Leslie Dowling Farm Forestry	Farm Forestry
Bruce Manley School of Forestry	University of Canterbury



# Appendix 4: References

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# Appendix 5: National Exotic Forest Description Technical Report

Version 2023

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## Introduction

This document provides a detailed overview of the methodology used for the National Exotic Forest Description (NEFD). It contains information on data collection and estimation, reliability of data, yield tables and imputation of data. For the most recent NEFD report, as well as past NEFD publications and other forestry related statistics, please visit the Te Uru Rākau website: <https://www.teururakau.govt.nz/news-and-resources/open-data-and-forecasting/forestry/new-zealands-forests/>. For past copies please contact [nefd@mpi.govt.nz](mailto:nefd@mpi.govt.nz).

## Data collection

The NEFD surveys known forest owners and managers with at least 40 hectares of planted production forest. The survey runs on a two-yearly cycle, where all known foresters with 40 hectares of forest are surveyed one year, and only owners with 1,000 or more hectares the next (see NEFD survey cycle). Respondents either complete the survey via a postal survey or they can complete it online.

### NEFD survey cycle

Year	2019	2020	2021
Survey frame	Only foresters with 1,000 or more hectares of forests <sup>1</sup>	All known foresters with 40 or more hectares of forests	Only foresters with 1,000 or more hectare of forests <sup>1</sup>

#### Note

1. The survey is run as a census every two years, as approximately 70 percent of respondents report no change year to year. Large owners are surveyed every year, as they own approximately 70 percent of New Zealand's forests and are more likely to engage in planting and harvesting.

In addition to the data collected in the NEFD surveys, the results from the 2004 AgriQuality (nowASUREQuality) Small Forest Grower Surveys are used in the NEFD dataset. Details on the methods used by AgriQuality are available in the Small Forest Grower Survey Report (AgriQuality NZ, 2005). Harvest Information from the Forestry Production Statistics (FPS) survey is also presented along with NEFD data. Details for the FPS can be found on Te Uru Rākau's website: <https://www.teururakau.govt.nz/news-and-resources/open-data-and-forecasting/forestry/wood-processing/>

## Comparing data collected from sources other than the NEFD

The figures released in the NEFD, and in particular, new planting estimates, differ from those produced from the Agricultural Production Survey collected by Statistics New Zealand. These surveys use different survey frames and methodologies and have different survey objectives.

The target population differs for the NEFD and the Agricultural Production Survey (APS). The APS surveys all businesses engaged in "agricultural production activity" (including livestock, cropping, horticulture, and forestry) or own land intended for agricultural activity. Detailed information on the population frame for the Agricultural Production Survey is available on the Statistics New Zealand website: <http://www>.

[stats.govt.nz/survey-participants/a-z-of-our-surveys/agricultural-production-survey.aspx](https://stats.govt.nz/survey-participants/a-z-of-our-surveys/agricultural-production-survey.aspx)

The forest areas released in the NEFD may also differ from those produced in the New Zealand Land Use Map 1990-2016 (LUM v008) – see: <https://environment.govt.nz/facts-and-science/science-and-data/new-zealand-land-use-map/>. The NEFD reports net stocked area of planted production forest while the New Zealand Land Use Map reports gross forest area including areas that are not intended for timber production.

Sometimes harvested areas remain unstocked for up to three years before replanting occurs. Often these areas are not recorded year-to-year because the forest owners' tenancy ends at the completion of harvest and the land is returned to the land owners. The landowner or new tenant may not report the same areas in the NEFD survey until they are restocked.

This makes it difficult to reconcile changes in forest area between years. The year-to-year change in total planting minus the areas of deforestation and harvesting reported in the NEFD is therefore not a reliable measure of the total forest area.

## Reliability of data

There are different levels of reliability associated with data from different scale forest owners.

### Reliability of data from large-scale forest owners

Large-scale forest owners (those with 1,000 hectares or more) own 70 percent of the national forest estate. There are approximately 100 forest owners with more than 1,000 hectares of forest.

Data provided by these owners, and especially those with forests over 10,000 hectares, is considered the most reliable segment within the NEFD area dataset. Large-scale forest owners' forests are managed by professional staff and mapping work and forest inventories are conducted regularly in order to make well informed management decisions. The large-scale forest owners apply relatively consistent definitions of net stocked area.

### Reliability of data from smaller scale owners

Smaller scale forest owners with forests of fewer than 1,000 hectares made up 30 percent of the national forest estate in 2022. There are approximately 1,600 forest owners with between 40 hectares and 999 hectares of forest. The quality of the data provided by owners with fewer than 1,000 hectares is likely to be more variable in nature.

For instance:

- Some owners may report the total land area originally taken out of pasture and put into forest without mapping out unstocked gaps. The difference between "gross" forest area and "net stocked" area is generally of the order of 10 to 20 percent.
- It is likely to have a higher degree of non-sampling error as it is more likely to contain reporting inaccuracies and responses based on forest owners' estimates.

- It is also generally not reported electronically, which increases the possibility of errors in reporting the data to MPI and in recording the data in the database.

There is also the possibility that the survey frame contains inaccuracies, which may also contribute to non-sampling error. MPI adopts procedures to detect and minimise non-sampling error, but these errors may still occur and are not easy to quantify.

## Reliability of data below national level

Finer scale data, such as the area by age class at a territorial authority level, is likely to be less accurate than the total national forest area.

Forest areas are sometimes misallocated between adjacent territorial authorities. One way for users to minimise this problem, is to aggregate data from adjacent territorial authorities – particularly where contiguous forest areas straddle territorial authority boundaries.

### NEFD data collection schedule

Forest ownership size [ha]	Survey frequency	Estimated data quality
1,000 ha or more	Annually	Good
40 ha to 999 ha	Every two years	Medium
40 ha	Infrequently	Low

## Quality assurance of NEFD survey data

To minimise possible errors in the NEFD survey data, the following checks were made:

- Numeric data input was limited to certain maximum and minimum values for each entry.
- Aggregated area data was checked at the territorial authority level against the 2022 NEFD area dataset to ensure variation was within acceptable limits.
- For each owner, the data provided was compared with data provided by that owner in the previous surveys.
- The completeness of returns was checked, e.g. checking whether harvesting returns included both area and volume harvested.
- Reconciling related fields, e.g. checking that the new planted and replanted area matched the year one stock total.
- A sample of survey data was checked against the original returns to identify data entry errors.

In 2015 a new NEFD system came into use. This system has data quality checks built into data entry and has significantly reduced the number of data entry errors.

Despite the best efforts of the NEFD team some data may still be incorrect. For instance, it is possible that some owners included in the dataset may change their management objectives so an area that is reported as intended to be pruned may not end up being pruned.

## Data for forests smaller than 40 hectares

Forest area data for forests smaller than 40 hectares comes from three sources, listed below in order of total area represented:

1. New planting imputations from 1992 to 2006
2. A survey of small forest growers from 2004

3. Forests previously surveyed for the NEFD but which have dropped below 40 hectares.

More detail on these sources is provided below.

## New planting imputations 1992 to 2006

Since 1992, MPI has conducted an annual forest nursery survey. This nursery survey measures the sales of planting stock from commercial forest nurseries. Details of how this survey is operated are described in Predicting and Measuring New Planting from Nursery Surveys (Eyre, 1995). An estimate of total national planting was calculated from the reported numbers of seedlings sold, and estimates of replanting and new planting are then derived. The nursery survey provides the most complete indicator of the area of new forest established each year. In recent years the nursery survey has only been used to estimate the total area of planting. New planting and replanting are not now estimated directly through the survey. The methodology was reviewed in 2003 (Manley et al, 2003), and stocking rate assumptions are reassessed every two years.

For the calendar years 1992 to 2006, additional new planting areas not directly captured in the NEFD surveys were estimated (imputed) based on the nursery survey and added to the NEFD dataset. No additional new planting was added for the 2007 to 2012 calendar years because of the very low levels of new forest planting that took place in those years. The NEFD report compares the new planting figures collected in the NEFD postal surveys with the nursery survey estimates.

The national new planting adjustments were then distributed into territorial authorities using the proportions indicated by the new planting as collected in the postal survey.

Within each territorial authority imputed, new planting was allocated to NEFD crop types using the postal survey results in the following way:

- The imputed new planting was allocated into species groups based on the relative proportions of each species group within the one to five year age class.
- For radiata pine, the imputed new planting was allocated into the four NEFD tending regimes, based on the relative proportion of each of these tending regimes across all the age classes.
- All the douglas-fir imputed new planting was allocated to the “without production thinning” tending regime.

Historically, imputed new planting estimates are revised each year, based on any new information on the area of young forest captured directly in the NEFD survey.

## Assumptions

The inclusion of imputed new planting into the NEFD dataset makes the following assumptions.

- The new planting estimates from the nursery seedling surveys are the actual areas of new planting established between 1992 and 2006.
- The imputed new planting in each territorial authority occurs in the same proportion as the new planting captured in the NEFD surveys.

- Imputed new planting for radiata pine is assigned to the tending regimes in the same proportions as the radiata pine new planting captured in the NEFD surveys.

### 2004 AsureQuality small forest grower survey

In 2004 AsureQuality (then AgriQuality) used their AgriBase database of agriculture businesses to run a survey of small forest owners for MPI. The data from this survey was first included in the 2004 NEFD report, published in 2005. The original survey captured approximately 138,000 hectares of forest, including owners of forests smaller than 40 hectares and some with over 40 hectares not previously captured by the NEFD.

The data was used in aggregated form for the 2005 and 2006 reports. For 2007 onwards the under-40 hectare area was used in aggregate form, representing around 67,000 ha. Owners with 40 hectares or more were added to the core database of owners and sent surveys directly.

### Small owner estate

Owners of small forests are classified as those with less the 40 hectares of forest. If a forest drops below the 40 hectare cut-off it is no longer part of the survey frame but the data is retained.

## Scaling of planting and harvesting data in non-census years

In non-census years the planting and harvesting data is scaled up to estimate the values from the sub-1,000 hectare forest estate. The approach used since 2009 is as follows, using replanting as an example. The same logic is applied to all planting and harvesting variables.

1. For the previous census year, divide the total replanting by the replanting for forests 1,000 hectares and above.
2. Multiply the current year's replanting by the result of (1).

There are some key assumptions.

- The proportion of sub-1,000 hectare planting and harvesting will be similar from one year to the next.
- The previous census year was not unusual.

Scaling up is only done at the total level and the radiata pine levels. There is too much variability in the smaller species, relating to the above assumptions, to make this a reliable method.

Worked example for replanting.

- Census year total replanting – 1,000 ha
- Census year 1,000+ hectare replanting – 800 ha
- Current year total replanting – 900 ha

$$\begin{aligned}
 \text{Scaled replanting} &= \text{current year} * (\text{census year} \\
 &\quad \text{total/census year 1,000 +}) \\
 &= 900 * (1,000/800) \\
 &= 900 * 1.25 \\
 &= 1,125
 \end{aligned}$$

## Yield tables

Standing volumes from the 2022 NEFD onwards have been calculated using the yield tables produced during the 2014/15 Wood Availability Forecasting project. From 2014 to 2017 the 2005 to 2009 tables were used. Prior to 2014, the yield tables from the 1995 Wood Availability Forecasting project were used. Moving to the more recent yield tables provides greater accuracy and relevance of the figures produced.

The yield tables were produced principally using data provided in 2014 by owners with extensive areas of forest. Data was collected from these owners because their holdings covered most districts in New Zealand – they made up much of the forest resource and they had the most suitable yield data in New Zealand. For further details on the NEFD yield tables, refer to the 2014/15 Wood Availability Forecasts.

The impact of moving from the 2009 to the 2014 yield tables, is a lower standing volume per hectare. This is due to more attention being paid to realised volumes, which incorporates events such as incremental wind throw and crop failure, compared to previous models.

# ANNUAL SURVEY FOR NATIONAL EXOTIC FOREST DESCRIPTION AS AT 1 APRIL 2023

Ministry for Primary Industries  
Manatū Ahu Matua



Please complete and return this questionnaire no later than **31 July 2023**

## Why is this survey important?

This survey is used to maintain a database of New Zealand's planted exotic production forests. This information is used extensively by government and the wider forestry sector for wood availability forecasting, infrastructure planning, and for developing policy which impacts the forestry sector. The survey is split into the following four sections:

### Section A

This section asks you to check your contact details.

### Section B

This section collects forest area by age data.

### Section C

This section records changes in forest area and collects information on planting, harvesting, and land use change.

### Section D

This section asks for future plans on your forest, and for emergency contact consent.

## Confidentiality and Privacy

All responses to this survey will be treated as confidential and will only be used for statistical purposes. Personal details provided by individual forest owners and managers are seen only by people directly involved with running the survey.

This information is collected under the statistical provisions of the Forests Act 1949. For a copy of our full Privacy Statement, please email us at [nefd@mpi.govt.nz](mailto:nefd@mpi.govt.nz).

For assistance please contact: NEFD SURVEY SUPPORT

**Telephone:** 0800 008 333

**Email:** [nefd@mpi.govt.nz](mailto:nefd@mpi.govt.nz)

**Mail:** NEFD Survey Support, Ministry for Primary Industries, PO Box 2526, Wellington 6140

You should receive a separate survey for each of your forest entities. If you are missing any forest entities please let us know.

## Section A: Contact Details

Work through the questions in this section and only fill in the information you need to complete.

**A1** Please check the front cover of the survey to see if your contact information is correct. If any changes need to be made please add them below.

Contact Name	
Company Name	
Contact Address	
Phone Number	
Email Address	

**A2** Please enter the details of the forest owner you are completing this survey for. We use this information to make sure we are not double counting forests.

Forest Owner's Name	
Company Name	
Contact Address	
Phone Number	
Email Address	

**A3** Please supply the location data about your forest. There is extra space on the next page if required.

Forest Address (if you have multiple forest locations please supply each individual address)	
LINZ Parcel ID or Title Number (if you have multiple forest locations please supply each individual ID)	

**A4**

Tick one option only.  
Which best describes the ownership of this forest?

- |   |  |
|---|--|
| <input type="checkbox"/> Privately Owned        | <input type="checkbox"/> Registered Public Company |
| <input type="checkbox"/> Local Government       | <input type="checkbox"/> Central Government        |
| <input type="checkbox"/> State Owned Enterprise | <input type="checkbox"/> Other (please specify)    |
| <input type="checkbox"/> Māori Trust            | _____  |

Please use this space to write any further information for Section A.



## Section B: Area by Age as at 1 April 2023

In this section we get you to check and provide the net stock area by age data for your forests.

Section B, page 6 to Section C shows the pre-printed area by age data we have for your forests. Please check this information and make any changes if it is incorrect.

To give us information on new (or missing) forests, fill in B1-B7 on pages 4 and 5. Print these pages for each forest separated by Territorial Authority, rotation, species, and regime; or contact us if you would like us to supply these.

**B1** If you have pre-printed pages attached to this survey, tick yes and follow the instructions below. Tick no if you have any forest area that is not included in the pre-printed pages, see end of Section B for these.

Yes    ▶    Check the information on these pages is correct.  
If there are any errors, please make corrections on the page. If there are no errors, or you don't have any additional forest area go to Section C.

No    ▶    Answer questions B2 to B7

**B2** Write the Territorial Authority (District Council) where the forest is located, in the box below:

**B3** Tick one option only. Which rotation is this?

First rotation (area planted in forest for the first time)

Second or subsequent rotation (area planted following harvesting of existing planted forest)

**B4** Tick one option only. Which species is this information for?

Radiata pine    ▶    Go to **B5**

Douglas-fir    ▶    Go to **B6**

Cypress

Other Softwoods

Eucalypt

Other Hardwoods

Go to **B7**

**B5** Tick one option in each category. What is your Radiata pine tending regime?

**Pruning Regime**

- Pruned  
 Unpruned

**Thinning Regime**

- Production Thinned  
 No Production Thinning

Go to **B7**

**B6** Tick one option only. What is your Douglas-fir tending regime?

- Production Thinned  
 No Production Thinning

Go to **B7**

**B7** As at 1 April 2023, input the net stocked area in hectares of trees of each age

		Net Area (HA)			Net Area (HA)			Net Area (HA)
Year Planted	Tree Age in 2023	As at 1 April 2023	Year Planted	Tree Age in 2023	As at 1 April 2023	Year Planted	Tree Age in 2023	As at 1 April 2023
2021	1		1993	29		1965	57	
2020	2		1992	30		1964	58	
2019	3		1991	31		1963	59	
2018	4		1990	32		1962	60	
2017	5		1989	33		1961	61	
2016	6		1988	34		1960	62	
2015	7		1987	35		1959	63	
2014	8		1986	36		1958	64	
2013	9		1985	37		1957	65	
2012	10		1984	38		1956	66	
1993	11		1983	39		1955	67	
2010	12		1982	40		1954	68	
2009	13		1981	41		1953	69	
2008	14		1980	42		1952	70	
2007	15		1979	43		1951	71	
2006	16		1978	44		1950	72	
2005	17		1977	45		1949	73	
2004	18		1976	46		1948	74	
2003	19		1975	47		1947	75	
2002	20		1974	48		1946	76	
2001	21		1973	49		1945	77	
2000	22		1972	50		1944	78	
1999	23		1971	51		1943	79	
1998	24		1970	52		1942	80	
1997	25		1969	53		1941 or Prior	80+	
1996	26		1968	54				
1995	27		1967	55				
1994	28		1966	56				
						<b>Total Area</b>		

## Section C: Planting and Harvesting

### Planting

You will need to supply separate responses for C1 to C4 for planting in each Territorial Authority. Print this page for each Territorial Authority, or contact us if you would like us to supply these.

**C1** For the year ended 31 December 2022,  
Was there any planting done in this forest entity?

Yes    ▶    Go to **C2**

No    ▶    Go to **C5**

**C2** Write the Territorial Authority (District Council) where the forest is located, in the box below:

**C3** Complete the table below for planted and replanted forest area, for the year ended 31 December 2022. (see glossary for species specification)

	New planted area	Replanted area
Radiata pine	ha	ha
Douglas-fir	ha	ha
Cypress	ha	ha
Other Softwoods	ha	ha
Eucalypt	ha	ha
Other Hardwoods	ha	ha
<b>Total</b>	<b>ha</b>	<b>ha</b>

**C4** For the new planted area, what was the land previously used for?  
Take the number from the highlighted Total box in C3 and place it in the highlighted Total box below, then separate it into categories of pasture and vegetation.

<b>Improved Pasture</b> Land that has been fertilised and contains improved pasture species	ha
<b>Unimproved Pasture</b> Land not fertilised, with no improved pasture species sown	ha
<b>Woody Vegetation</b> Land predominately covered in broken gorse, manuka, kanuka or other woody	ha
<b>Total</b> This should equal the highlighted total 'New planted area' in question C3	<b>ha</b>

## Harvesting

You will need to supply separate responses for C5 to C8 for harvesting in each Territorial Authority. Print this page for each Territorial Authority, or contact us if you would like us to supply these.

**C5** For the year ending 31 March 2023,  
Did you carry out any harvesting for this forest entity?

Yes    ▶    Go to **C6**

No    ▶    Go to **C9**

**C6** Write the Territorial Authority (District Council) where the forest is located, in the box below:

**C7** For the year ended 31 March 2023, please give the following harvesting details:

	<b>Area clear felled</b> <small>include any salvage logging of windthrown or other damaged trees</small>	<b>Clear felled volume</b> <small>the recovered volume of wood (inside bark) from harvesting or clear felling (see glossary for details)</small>	<b>Average age clear felled (area-weighted)</b> <small>the average age of harvested stands weighted by the area of each stand (see glossary for details)</small>	<b>Production thinning volume (recovered)</b> <small>the recovered volume of wood (inside bark) from thinning for commercial use (see glossary for details)</small>
Radiata Pine	ha	m3	years	m3
Douglas-fir	ha	m3	years	m3
Cypress	ha	m3	years	m3
Other Softwoods	ha	m3	years	m3
Eucalypt	ha	m3	years	m3
Other Hardwoods	ha	m3	years	m3

**C8** Write the number from the Radiata pine clear felled volume highlighted above in C7 into the highlighted 'Total' box below. Then separate it into log grade sold.

Export logs should be included in the log grades e.g. if a pruned log is exported as an unpruned grade, please record as 'unpruned' (see glossary for definitions).

Volume (recovered) sold as     $\frac{\text{Pruned Logs}}{\text{m3}} + \frac{\text{Unpruned Logs}}{\text{m3}} + \frac{\text{Pulp/chip logs}}{\text{m3}} = \frac{\text{Total}}{\text{m3}}$

### Harvested Land

You will need to supply separate responses for C9 to C13 for harvested land activities in each Territorial Authority. Print this page for each Territorial Authority, or contact us if you would like us to supply these.

**C9** On 31 March 2023, was any previously forested land awaiting replanting, awaiting a land use decision, or converting to a non-forest land use?

Yes ▶ Go to **C10**

No ▶ Go to **Section D**

**C10** Write the Territorial Authority (District Council) where the forest is located, in the box below:

**C11** On 31 March 2023, what area of land in this Territorial Authority was awaiting replanting?

Include area clear felled and intended to be replanted which has not yet been replanted  
Don't include land handed back to the landowner

 ha

**C12** On 31 March 2023, what area of land in this Territorial Authority was awaiting a land use decision?

Include area clear felled for which a decision on whether to replant or convert has not yet been made.  
Don't include any area given in the replanting above, or land handed back to the landowner.

 ha

**C13** On 31 March 2023, what area of land in this Territorial Authority was converting to a non-forest land use?

Include land that was in the process of being converted to non-forest land use.  
Don't include land handed back to the landowner.

 ha

## Section D: Emergency Contact, Future Plans, and Feedback

**D1** I agree to the Ministry for Primary Industries sharing my contact details with:

- Fire and Emergency NZ in case of a fire or emergency, and
- Biosecurity NZ in case of a biosecurity concern (pest incursion or similar)

in accordance with the Privacy Act 2020.

Yes

No

**D2** This question is about your future plans for this forest. We'd like to know whether or not you intend to harvest your forest when it reaches maturity.

We are just looking for your best guess. This will help us make wood availability forecasts more accurate.

Approximately how many hectares in this forest are:

**Likely to be harvested**

Include any forest likely to be harvested at maturity.

ha

**Unlikely to be harvested - carbon**

Include any forest area intended to be a permanent carbon forest and is unlikely to be harvested.

ha

**Unlikely to be harvested - other**

Include any forest area unlikely to be harvested for any other reason (uneconomic or impractical to harvest, erosion control, etc).

ha





New Zealand Government

December 2023

Ministry for Primary Industries  
Manatū Ahu Matua

