

# Facts & Figures

## 2021/22

NEW ZEALAND PLANTATION  
FOREST INDUSTRY



# NZ School of Forestry

**Take your career to the next level. Study Forestry at UC.**

- Bachelor of Forestry Science
- Bachelor of Engineering with Honours in Forest Engineering
- Postgraduate Diploma in Forestry
- Master of Forestry Science
- PhD in Forestry

+64 3 369 3500  
www.forestry.ac.nz



## Contents

### Section 1. Planted Forestry Highlights

New Zealand Planted Forestry Highlights	3
New Zealand Planted Forestry in Summary	4
Land Use and Returns	5
Forestry and the Primary Sector	6
Global Forests	7

### Section 2. New Zealand Planted Forestry

Planted Forest Mix and Ownership	11
NZ Plantation Forest Ownership – Underlying Land Status	12
Commercial Planted Forest Ownership and Management	13
Environmental Certification	14
Planted Forests by Species	15
Net Stocked Area by Age Classes	16
Planted Forest Area by Regions	17
Planted Forest Age and Volume	18
Forest Planting, Harvest and Deforestation	19
Forest Management Trends	21
Typical Log Out-turn	22
Log Flow in the New Zealand Forestry Industry	23
Reporting a Suspected Pest/Disease	25

### Section 3. Export and Production

Top Export Destinations	27
Export Value by Destination and Product	29
Major Forest Product Export Earners	30
Production and Exports of Selected Forestry Products	31
New Zealand Lumber and Log Production and Exports	32
New Zealand Logs	33
Transformation Scenarios for New Zealand Forest Industry	34
Log Exports by Port	35
Sawn Timber Exports by Port	36
Forest Processing Industry 2021	37
Paper, Pulp and Panel Products Production	41

### Section 4. Health and Safety Training

Health and Safety in the Forest Industry	44
Forestry Workforce	45
Industry Training 2021	46

### Section 5. Supplementary Information

Vision for 2050	49
Forest Growers Levy Trust	50
How the FGL is Invested	51
New Zealand's Greenhouse Gas Inventory	53
Forests Removing Carbon	54
Measured and Look-up table Carbon Sequestration Rates	55
Carbon Sequestration	56
FCS Certified Plantation Forests Contribution	57
Forestry as a Land Use	58
Sector Agreements	59
Terms, Names and Sites	60
Contacts	61
Log Pricing Data	63

# Minister's Foreword



Welcome to the Forest Owners Association's *Facts and Figures for 2022/23*.

I am incredibly proud to be the Minister of a sector that is so instrumental in supporting our economic growth, regional development, and environmental sustainability. We are entering a new era where forestry will play a key role in our transition to a thriving economy based on high value products and low emissions. The Government's investment of \$384 million as part of Budget 2022 is a strong demonstration of Ministers' confidence in our forests to drive this change.

I am committed to the Government continuing to work with forest owners, the wider sector, and Te Uru Rākau – New Zealand Forest Service to boost productivity and value from our forests, enhance sustainability, create jobs, and support innovation. Through industry transformation and the development of the bioeconomy, we are creating the programmes and pathways for forest owners, processors and companies to produce and manufacture high value products, create and adopt new technologies, and gain access to new and diverse markets. I am, as I always have been, a strong advocate for increasing opportunities for onshore wood processing and generating jobs for New Zealand people and local communities.

The Budget also provided investment for utilising our diverse forest estate to meet New Zealand's climate change goals and emission reduction targets by 2050. This included maximising forestry's contribution to providing long-term carbon sinks and ensuring we have the right balance of forests, including planting native trees.

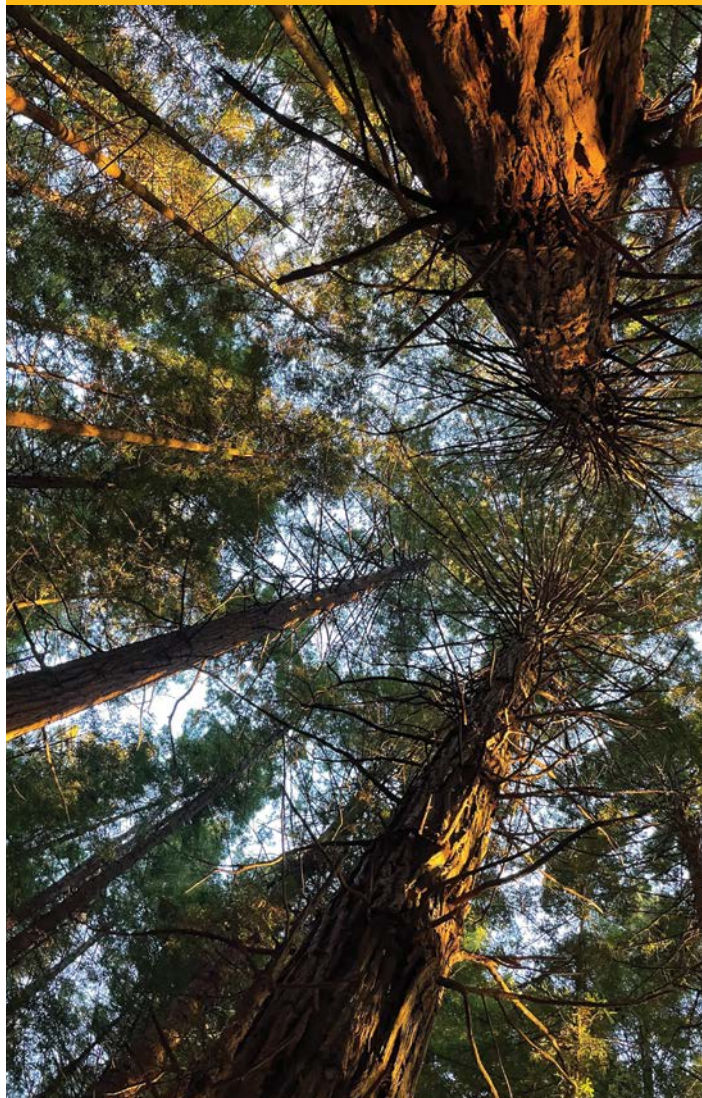
Forest owners and businesses are continuing to manage a challenging operating environment, including from COVID-19 and disruption and constraints across supply chains and ports. We aren't out of the woods yet, but I am confident that the sector will continue to display resilience and strength to not only withstand these challenges but emerge stronger and more dynamic for the future. The past few years have truly proven our primary sector to be the engine room of our nation and the most innovative parts of our economy.

I know we are up for the challenge, and will continue to build on our successes, do things differently, and add value from our forests to the economy, environment, people, and New Zealand's global brand.

**Hon Stuart Nash**  
Minister of Forests

## SECTION 1

# Planted Forestry Highlights



## New Zealand Planted Forestry Highlights

**1,739,971 ha** is the estimated net stocked plantation forest area at 1 April 2021. This is an increase in the plantation forest area of 23,396 ha from 1 April 2020.

1

IN 2021,

**34.4 million m<sup>3</sup>**

WAS HARVESTED FROM NEW ZEALAND FORESTS, WHICH IS THE SAME VOLUME THAT WAS HARVESTED IN THE 2020 CALENDAR YEAR.

2

The value of all forestry exports to December 2021 was

**\$6.53**

**billion.** Of this, \$3.85 billion was logs.

3

Forestry export revenue has decreased to

**\$6.2**

**billion** for the year to 30 June 2022, down 4% from the previous year.

4

Source Boxes 1 & 2 NEFD 2021, MPI  
Source Boxes 3 & 4 SOPI June 2022, MPI

## New Zealand Planted Forestry in Summary

Area and standing volume statistics	As at 1 April 2019	As at 1 April 2020 <sup>r2</sup>	As at 1 April 2021 <sup>p</sup>
<b>Forest area</b>			
Net stocked area (ha)	1,696,604	1,716,575	<b>1,739,971</b>
Harvested area awaiting restocking (ha)	49,194	50,030	<b>45,487</b>
Total forest area	1,745,798	1,766,605	<b>1,785,458</b>
<b>Growth characteristics</b>			
Standing volume (000 m <sup>3</sup> )	494,635	512,403	<b>531,395</b>
Average standing volume (m <sup>3</sup> /ha)	292	299	<b>305</b>
Area-weighted average age (years)	17.9	18	<b>18</b>
<b>Area by species<sup>3</sup></b>			
Radiata pine (ha)	1,525,711	1,545,102	<b>1,571,574</b>
Douglas-fir (ha)	103,430	102,236	<b>97,584</b>
Cypress species (ha)	9,825	10,034	<b>9,970</b>
Other softwoods (ha)	23,381	24,619	<b>24,027</b>
Eucalypts (ha)	21,777	21,757	<b>21,950</b>
Other hardwoods (ha)	12,481	12,827	<b>14,866</b>
<b>Radiata pine area by tending regime</b>			
Pruned with production thinning (ha)	140,318	138,754	<b>136,898</b>
Pruned without production thinning (ha)	547,042	537,733	<b>520,952</b>
Unpruned with production thinning (ha)	50,733	52,931	<b>58,121</b>
Unpruned without production thinning (ha)	787,617	815,684	<b>855,602</b>
<b>Planting statistics</b>			
	Year ended 31 December 2018	Year ended 31 December 2019	Year ended 31 December 2020
<b>New planting<sup>4</sup></b>			
Total estimated new planting (ha)	7,000	19,000	<b>34,000</b>
Restocking (ha)	40,171	42,179	<b>42,907</b>
<b>Harvesting statistics</b>			
	Year ended 31 March 2019	Year ended 31 March 2020	Year ended 31 March 2021
<b>Harvesting</b>			
Estimated planted forest roundwood removal (000m <sup>3</sup> ) <sup>5</sup>	36,404	34,440	<b>34,383</b>
Average harvest age – radiata pine (years)	28.7	29.1	<b>25.4</b>

### Notes

<sup>2</sup> Individual entries may not add to totals due to rounding.

<sup>3</sup> 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.

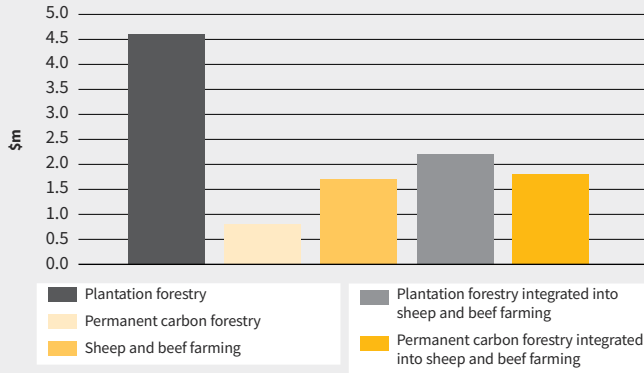
<sup>6</sup> Estimate from the annual roundwood removal statistics.

<sup>7</sup> The net stocked area for 2020 has been revised following updated returns from respondents and corrections of data issues.

Source National Exotic Forest Description NEFD 2021, MPI

# Land Use and Returns

## Annual Total Value Chain Impact per 1,000 hectares - Value-Add by Land-Use



## Export Value Calculations<sup>1,2,3</sup>

Export product category	Million ha 2019*	Year to June 2021 exports million \$	Export dollar per ha/yr
Horticulture	0.1	6,720	67,200
Dairy	2.1	21,610	10,290
Forestry	1.6	6,250	3,906
Meat and wool	8.9	12,220	1,373
All pastoral farms	11	33,830	3,075



### Notes

<sup>1</sup> These export return figures do not take into account the different land class ratios used for the four listed industry categories, nor the shift of product across categories, such as beef from dairy cows.

<sup>2</sup> Neither charges nor payments under the Emissions Trading Scheme are calculated into these figures.

<sup>3</sup> These are export figures alone and do not reflect the different domestic consumption levels across the primary sector. Nor do they reflect different ROI levels.

**Source** Annual total value chain impact per 1,000 hectares - Value-Add by Land-Use Economic Impacts of Forestry In New Zealand, PwC 2020

**Source** Export Value Calculations MPI

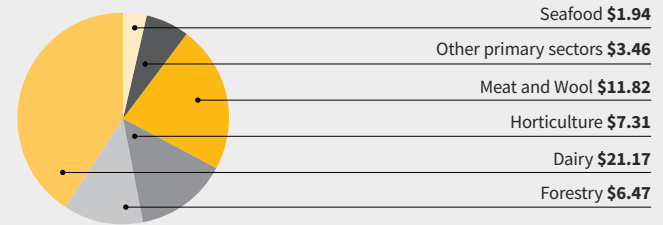
# Forestry and the Primary Sector

MPI anticipates that the value of forest product exports will reach

**\$6.47 billion**  
in 2023.

1

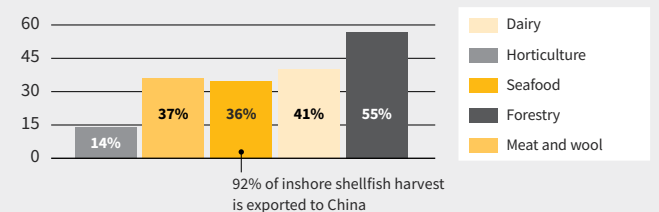
## MPI Prediction for Primary Industry Sector Export Values 2023 (\$ billions)



## MPI Prediction for Primary Industry In-sector Export Values 2023 (\$ billions)

Export	Billions \$
Whole milk powder	\$7.50
Logs	\$3.55
Butter, anhydrous milk fat & cream	\$3.09
Lamb	\$3.54
Beef & veal	\$4.21
All other forestry products	\$2.92
Kiwifruit	\$2.75
Cheese	\$2.23
Wine	\$1.90

## Proportion of Exports to China by Primary Sector 2021 (% percentage)



**Source** MPI, SOPI June 2022

# Global Forests



Global forests produce more than 5,000 types of wood-based products, and generate an annual gross value add of just over US\$ 600 billion, about 1% of global GDP. About 350 million people who live within or close to dense forests depend on them for their subsistence and income. Deforestation, forest degradation and land use change contribute about 12% of the world's greenhouse gas emissions.



Some **560 billion** trees comprise a world forest area of 4.06 billion hectares, which is 31 percent of the total land area, and 290m ha of this is planted forest 131m ha of managed plantation forest.

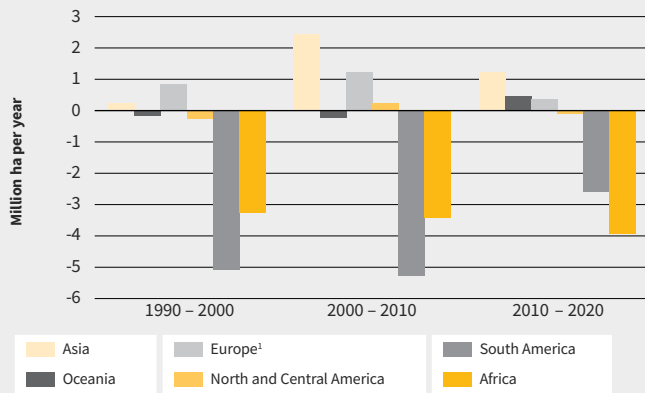
1

The global plantation estate is **132 million** hectares – at current rates of growth this will increase to **264 million** hectares by 2100.

2

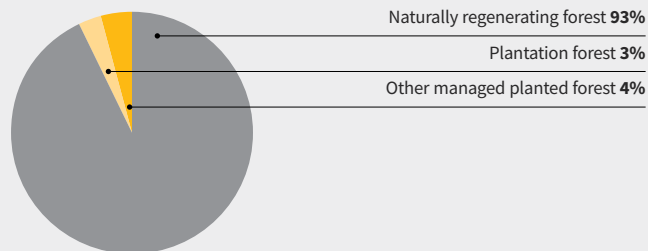
Source World Bank  
 Source Box 1 FAO Global Forest Resources Assessment 2020  
 Source Box 2 Potsdam Institute of Climate Research Report

## Annual Forest Area Net Change, by Decade and Region, 1990-2020

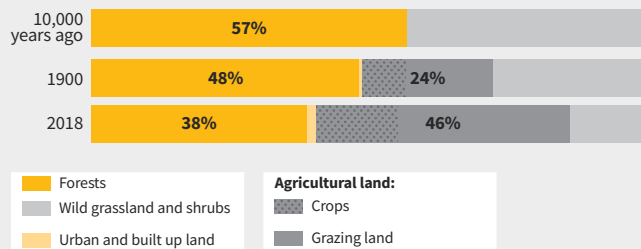


## Naturally Regenerating versus Managed Planted Forests

(% of global forest area)



## Reduction in Global Forests 8,000 BC to 2018



### Notes

<sup>1</sup> According to the regional breakdown used in FRA 2020, Europe includes the Russian Federation.

Source Annual Forest Area Net Change, by Decade and Region 1990-2020 FAO Global Forest Resources Assessment 2020

Source Naturally Regenerating versus Planted Forests FAO Global Forest Resources Assessment 2020

Source Reduction in Global Forests 8,000 BC to 2018 OurWorldinData.org



THE WORLD HAS LOST

**178 million**

HECTARES OF FOREST SINCE 1990, WHICH IS 6.5 TIMES THE AREA OF NEW ZEALAND, THOUGH THE RATE OF LOSS HAS FALLEN FROM 7.8M HA TO 4.7M HA PER YEAR, MOST OF WHICH OCCURS IN AFRICA.

1

World forests' carbon fell from 668 gigatonnes in 1990 to

**662 gigatonnes** in 2020.

2

The forest area designated for soil and water protection has increased from 200m ha in 1990 to

**399m** ha in 2020.

3

Source Box 1, 2 & 3 FAO Global Forest Resources Assessment 2020

## SECTION 2

# New Zealand Planted Forestry



## Planted Forest Mix and Ownership

### Overseas Investment Office Consents Granted Under the Special Forestry Test: Existing Forestry & Conversion Investments

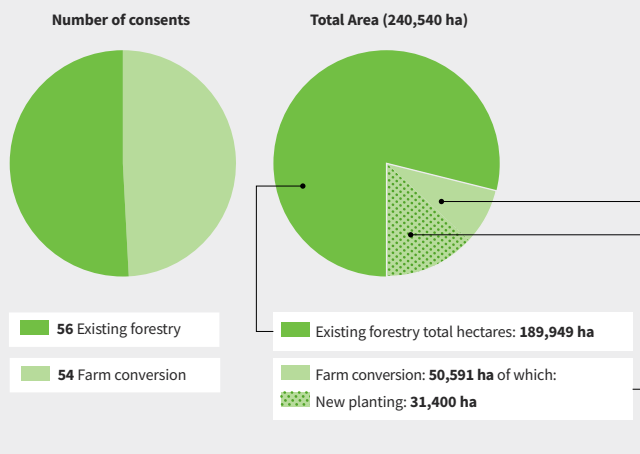
1 October 2018 – 30 April 2022

There have been **110** one-off consents granted under Overseas Investment Act, using the Special Forestry Test, since October 2018 through to 30 Apr 2022.

The **total area** consented was **240,539** hectares. Of this, **90,667** hectares were transferred from a New Zealand owner to an overseas owner.

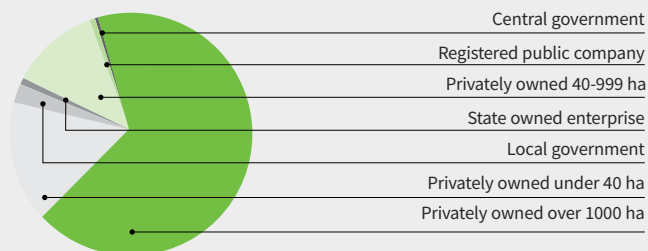
**50,591** hectares was consented for conversion of which approximately **31,400** hectares is to be planted in production forest.

Further information: [www.linz.govt.nz/overseas-investment](http://www.linz.govt.nz/overseas-investment)



### Forest Ownership <sup>1,2,3,4,5,6</sup>

As at 1 April 2021



Notes see page 12

## NZ Plantation Forest Ownership - Underlying Land Status

As at 31 December 2021

Firm/Entity	Underlying Land Status (Productive area (ha))				Total
	Freehold	Crown	Māori Inc.	Other	
Kaingaroa Timberlands Limited	1,402		186,161		187,563
Manulife Investment Management Forest Management (NZ) Ltd	82,460	7,952	57,203	19,228	166,843
Rayonier Matariki Forests	57,281	27,192	17,981	17,342	119,796
Ernslaw One	60,846	23,671	7,305	1,937	93,759
OneFortyOne	22,637		39,628	298	62,563
Summit Forests NZ Limited	4,697	18,229	26,195	1,626	50,747
Tasman Pine Forests Ltd	25,306		9,044	2,249	36,599
Pan Pac Forest Products	5,328	817	28,604	439	35,188
Global Forest Partners LP	33,659			95	33,754
Juken New Zealand	9,907	14,593	6,675	1,124	32,299
Crown Forestry (MPI)		1,504	18,741	9,016	29,261
Forest Enterprises	28,133	2,008		557	30,698
Ngai Tahu Forestry	35,253				35,253
Wenita	9,833			23,369	33,202
Port Blakely Ltd	28,036			1,840	29,876
Aratu Forests Ltd	31,783		2,130	1,100	35,013
Roger Dickie NZ	31,157				31,157
Lake Taupo Forest Trust	24,830		1,007	3,233	29,070
Lake Rotoaira Forest Trust	7,717		431	1,385	9,533
China Forestry Group Corporation	14,803	6,853		7,649	29,305
City Forests	22,713			1,393	24,106
<b>Totals</b>	<b>537,781</b>	<b>102,819</b>	<b>401,105</b>	<b>93,880</b>	<b>1,135,585</b>

#### P11 Notes

<sup>1</sup> The area of forest owned or managed by major forest owners can be found on page 13 (see the New Zealand Forest Owners Association website for more information).

<sup>2</sup> Ownership is based solely on the ownership of the forest irrespective of the ownership of the land.

<sup>3</sup> Figure represents percentage of net stocked planted production forest area by ownership type.

<sup>4</sup> Significant changes in forest ownership have occurred since 2003, resulting in large areas of forest previously owned by public companies now being privately owned.

<sup>5</sup> The legal entities included in the "Privately owned" category are private companies, partnerships, individuals and trusts, which includes Māori trusts and incorporations.

<sup>6</sup> "Central Government" forests are predominantly Crown-owned forests on Māori lease-hold land. These forests are managed by Crown Forestry.

**Source** Forest Ownership NEFD 2021

**Source** Consents Granted Under the Special Forestry Test: Existing Forestry & Conversion Investments Overseas Investment Office

#### P12 Notes

Total Prod area is as at 31 December 2021

**Source** NZ Plantation Forest Ownership – Underlying Land Status FOA



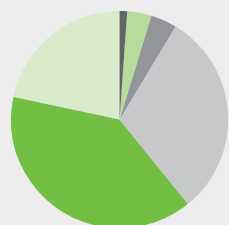
# Commercial Planted Forest Ownership and Management

As at 31 December 2021

Firm/Entity	Forest Management Productive Area (ha)	
	(TIMO)	Property Management
Kaingaroa Timberlands Limited		187,563
Manulife Investment Management Forest Management (NZ) Ltd		166,843
P F Olsen Ltd		140,000
Rayonier New Zealand Ltd		119,796
Ernslaw One	78,225	15,534
OneFortyOne		62,563
Summit Forests NZ Limited		50,748
Tasman Pine Forests Ltd		36,559
Pan Pac Forest Products		35,188
Juken New Zealand		32,299
Forest Enterprises	18,720	11,977
Port Blakely Ltd		29,876
Aratu Forests Ltd		28,817
Crown Forestry (MPI) <sup>1</sup>		29,261
Roger Dickie NZ	31,157	
Forest Management NZ Ltd		30,035
Ngai Tahu Forestry		28,101
Wenita		28,191
City Forests		24,106
Global Forest Partners LP	16,622	
Forest 360		20,430
NZ Forest Managers Ltd		44,611
<b>Totals</b>	<b>144,724</b>	<b>1,122,498</b>

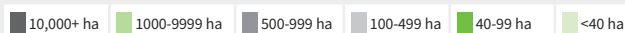
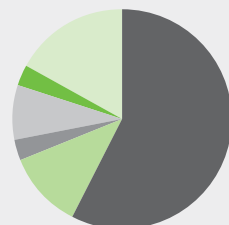
## Number of Forest Owners by National Size Class

As at 1 April 2021



## Forest Area by Forest Owner National Size Class

As at 1 April 2021



Notes see page 14

# Environmental Certification

As at 31 December 2021

Company	Environmental Certification Body	
	FSC (ha)	PEFC (ha)
Rayonier New Zealand Ltd	158,107	158,107
PanPac Forest Products Ltd	46,420	
NZ Forest Managers Ltd	44,611	
Wenita Forest Products Ltd	33,201	
Aratu Forests Ltd	35,013	35,013
Juken New Zealand Ltd	32,299	
PF Olsen Ltd	16,091	
Summit Forests NZ Limited	28,951	
Kaingaroa Timberlands Limited	187,563	187,563
Port Blakely Ltd	37,314	
Southland Plantation Forest Company of New Zealand	13,926	
M&R Forestland Management Ltd	20,974	
China Forestry Group Corporation	7,620	
Tasman Pine Forests Ltd	36,559	
Ngai Tahu Forestry	45,828	
Forest Enterprises	13,281	
City Forests Ltd	24,106	
Ernslaw One Ltd	93,759	
Manulife Investment Management Forest Management (NZ) Ltd	166,843	166,843
Craigpine Timber Ltd	2,266	
OneFortyOne	79,610	
<b>Total</b>	<b>1,124,342</b>	<b>547,526</b>

### P13 Notes:

This table is designed to identify who manages NZ forests.

Within "management" there are 2 main categories:

#### 1) Timberland Investment Management (commonly referred to as a TIMO).

These organisations do not own any forest. The forests are owned by retail investors or institutional funds.

#### 2) Property Management

Planning and managing field operations, mapping and maintaining records.

Some entities carry out both functions within the same organisation, others carry out both for some parts of a forest estate and not others.

<sup>1</sup>All forests are managed by Crown Forestry, though day to day supervision is contracted to a range of forest management companies.

Source Commercial Planted Forest Ownership and Management FOA

Source Number of Forest Owners by National Size Class NEFD 2021

Source Forest Area by Forest Owner National Size Class NEFD 2021

### P14 Notes:

<sup>1</sup>Crown Forestry forests are managed under an FSC licence held by NZ Forest Managers

n.b. Productive Area = Net Stocked Area + Area Awaiting Restocking

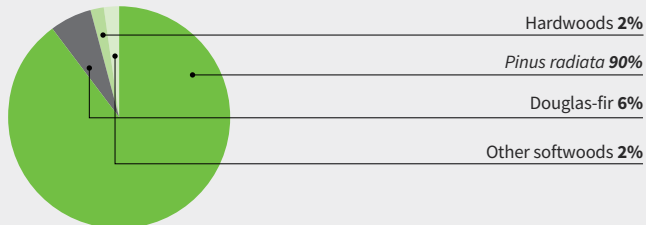
Total Certified Area = Total Forest Area as recorded on FSC certificate

Source Environmental Certification FOA

## Planted Forests by Species

### Species Distribution

As at 1 April 2021



### Approximate Harvest Age Over the Past Five Years

Species	Harvest Age
<i>Pinus radiata</i>	28.7 years
Douglas-fir	40.4 years
Cypress	31.7 years
Eucalypts	22.3 years

*Pinus radiata* makes up **90%** of the planted production forest area in New Zealand. The proportion of Douglas-fir is higher in Otago and Southland at 25% and Canterbury at 17%. <sup>1</sup>

### Minor Plantation Species

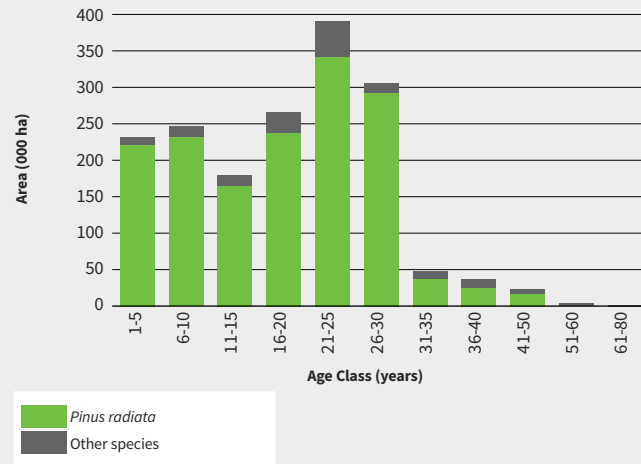
Other pines; *P. nigra*, *P. muricata*, *P. ponderosa*  
 Other softwoods; Redwoods, Larch, Cryptomeria, Cypress  
 Indigenous species; Kauri, Tōtara, Black Beech (Tawairauriki)  
 Other hardwoods; Poplars, Acacia, Willows, Black Walnut, Paulownia, Oaks  
 Non-durable eucalypts; *E. obliqua*, *E. fastigata*, *E. regnans*, *E. nitens*,  
*E. saligna*, *E. botryoides*.  
 Durable eucalypts; *E. globoidea*, *E. bosistoana*, *E. quadrangulata*,  
*E. pilularis*, *E. muelleriana*.  
 Most durable species include; *E. microcorys*, *E. cladocalyx*, Tōtara,  
 Silver Pine (Manoao), Robinia, Puriri

Source Species Distribution MPI  
 Source Approximate Harvest Age Over the Past Five Years MPI  
 Source Box 1 NEFD 2021

## Net Stocked Area by Age Classes

### Forest Area by Age Class and Species

As at 1 April 2021



Source Forest Area by Age Class and Species NEFD 2021

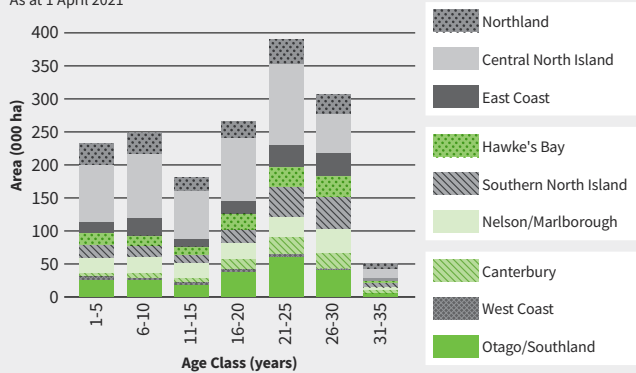
## Planted Forest Area by Regions

### Area Planted in all Species by Territorial Authority

Region	Estimated Total Forest Area (HA)			
	2019	2020	2021	%
Northland	185,943	<b>188,586</b>	<b>194,023</b>	11%
Central North Island	562,792	<b>564,448</b>	<b>560,001</b>	32%
East Coast	155,617	<b>155,359</b>	<b>157,295</b>	9%
Hawke's Bay	131,733	<b>131,994</b>	<b>139,558</b>	8%
Southern North Island	159,690	<b>167,718</b>	<b>176,250</b>	10%
Nelson/Marlborough	165,077	<b>164,639</b>	<b>167,920</b>	10%
Canterbury	94,782	<b>96,721</b>	<b>95,278</b>	5%
West Coast	30,401	<b>30,157</b>	<b>30,285</b>	2%
Otago/Southland	210,569	<b>216,953</b>	<b>219,361</b>	13%
<b>Total</b>	<b>1,696,604</b>	<b>1,716,575</b>	<b>1,739,971</b>	<b>100%</b>

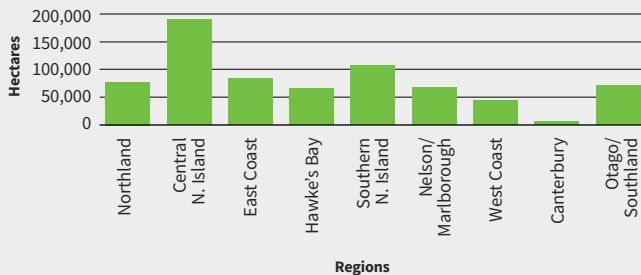
### Forest Area by Age Class and Wood Supply Region

As at 1 April 2021



### Forest Area Planted in *Pinus Radiata* by Wood Supply Region

Of Harvestable Age (21+) Per Region (ha), as at 1 April 2021



Source: **Area Planted in all Species by Territorial Authority & Forest Area by Age Class and Wood Supply Region** NEFD 2021

Source: **Forest Area Planted in *Pinus Radiata* by Wood Supply Region** NEFD 2021

Notes: This doesn't include the South Waikato District, New Plymouth District, South Taranaki District, Horowhenua District, Kaikoura District, Selwyn District, Waitaki District, Dunedin City as figures were unavailable.

## Planted Forest Age and Volume

The total planted forest standing volume in April 2021 was

**531 million m<sup>3</sup>,**  
an increase of 19 million m<sup>3</sup>  
from the 2020 revised figure.

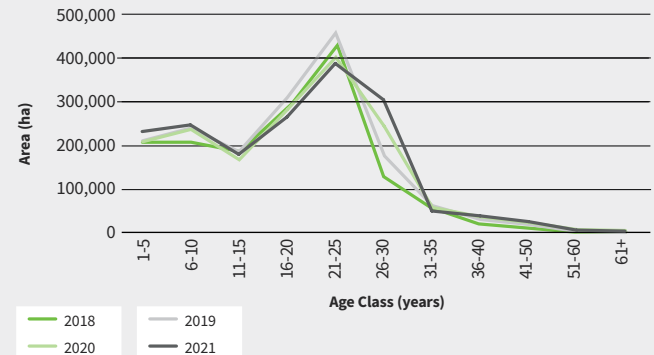
1

The average age of plantation trees was

**18.3 years** in April 2021,  
which is the same as the April 2020 figure.

2

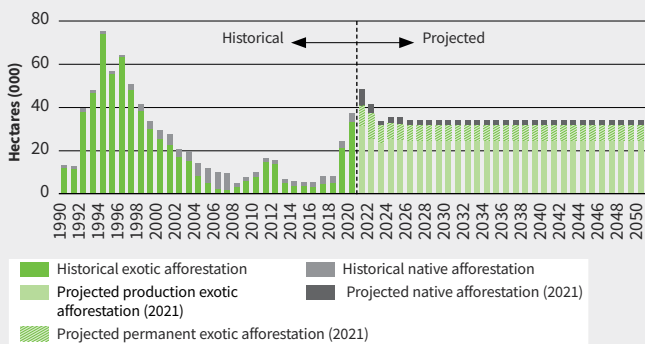
### Age Class Over Time



Source: NEFD 2021

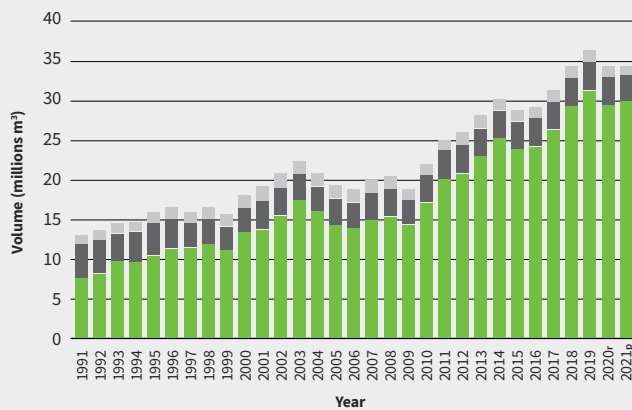
# Forest Planting, Harvest and Deforestation

## Projections for Afforestation to 2050



## Plantation Forest Harvest

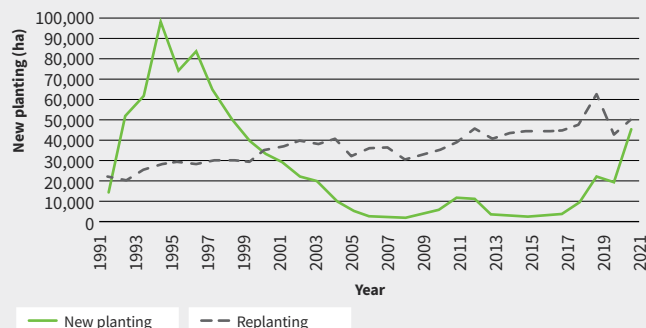
Year ended March



<sup>r</sup> Revised <sup>p</sup> Provisional



## Estimated Area of New Planting and Replanting



**95,000** ha OF PLANTATION FOREST WAS PLANTED IN 2021, COMPRISING 50,000 HA OF REPLANTING AND 45,000 HA OF NEW PLANTING.

1

## Tree Stock Sales from 2014 to 2021 (millions)

	2014	2015	2016	2017	2018	2019	2020	2021 <sup>p</sup>
<i>Pinus radiata</i>	47.2	45.8	49.3	48	56.6	84	88.4	91.8
Other	3.6	3.7	3.4	3.3	3.3	4.8	3.5	4.7
<b>Total</b>	<b>50.8</b>	<b>49.5</b>	<b>52.7</b>	<b>51.3</b>	<b>59.9</b>	<b>88.8</b>	<b>91.9</b>	<b>96.5</b>

## Estimated Percentages of Total Area of Radiata Pine Planting by Categories

	2014	2015	2016	2017	2018	2019	2020	2021 <sup>p</sup>
Open pollinated seedlings	36	31	28	25	30	47	36	54
Control pollinated seedlings, cuttings/clones	64	69	72	75	70	53	64	46

<sup>r</sup> Revised <sup>p</sup> Provisional

Source Projections for Afforestation to 2050 Ministry for the Environment  
Source Plantation Forest Harvest MPI

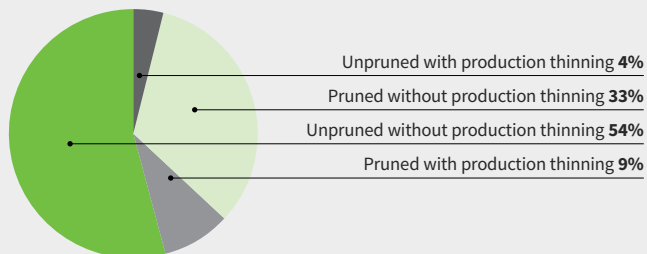
Source Estimated Area of New Planting and Replanting MPI  
Source Box 1 MPI

Source Tree Stock Sales from 2014 to 2021 Tree Stock Sales, MPI  
Source Estimated Percentages of Total Area of Radiata Pine Planting by Categories Tree Stock Sales, MPI

## Forest Management Trends

### Radiata Pine by Tending Regime

As at 1 April 2021



	2019 <sup>r</sup> Hectares	2020 <sup>p</sup> Hectares	2021 <sup>p</sup> Hectares
Pruned with production thinning	140,318	138,754	<b>136,899</b>
Pruned without production thinning	547,042	537,733	<b>520,952</b>
Unpruned with production thinning	50,733	52,931	<b>58,121</b>
Unpruned without production thinning	787,617	815,685	<b>855,603</b>

<sup>r</sup>Revised <sup>p</sup>Provisional

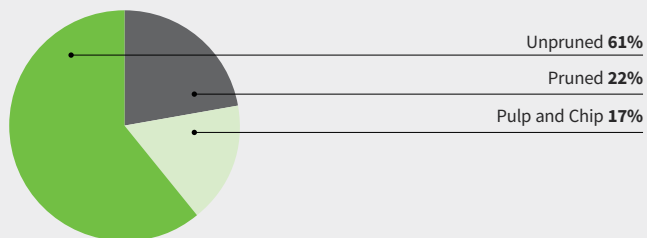
The area under an unpruned management regime is now

about **61%** of the *Pinus radiata* forest estate. The area of production thinned radiata forest is decreasing, now to about 22%.

1

### Pinus Radiata Harvest Volume by Log Type

For Year Ended 31 March 2021



Source *Radiata Pine by Tending Regime* MPI

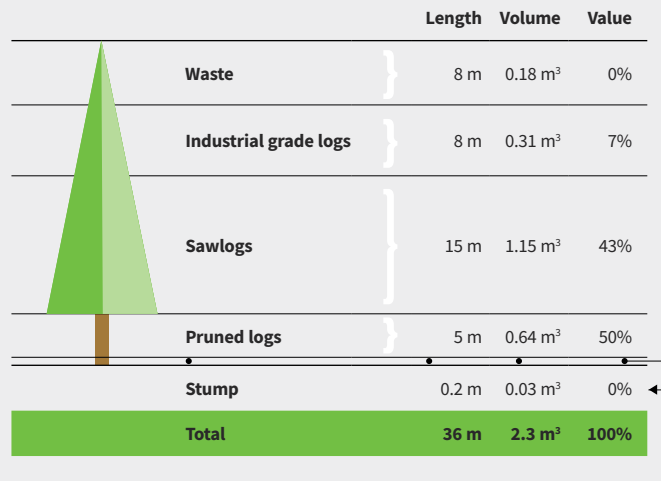
Source *Box 1* MPI

Source *Pinus Radiata Harvest Volume by Log Type* MPI

## Typical Log Out-turn

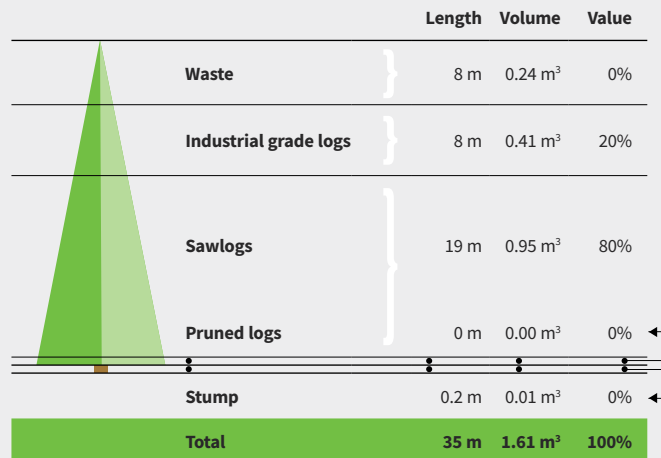
### Direct Sawlog Regime

Pruned and thinned. Final Crop Stocking 228 stems per hectare.



### Structural Regime

Thinned. Final Crop Stocking 487 stems per hectare.



Source *Direct Sawlog Regime & Structural Regime* Scion

# Log Flow in the New Zealand Forestry Industry

For Year Ended December 2021, in tonnes



THE INDIGENOUS TREE HARVEST NOW REPRESENTS LESS THAN **0.03%** OF THE TOTAL.

## Reporting a Suspected Pest/Disease

### Nun moth

(*Lymantria monacha*)



### Asian Spongy Moth

(*Lymantria dispar asiatica*  
(formerly Asian Gypsy Moth))



### How are you protecting your Forest?

We are fortunate that our forests are free of a large number of pests and diseases that are having significant impacts elsewhere in the world and we would like to keep it that way.

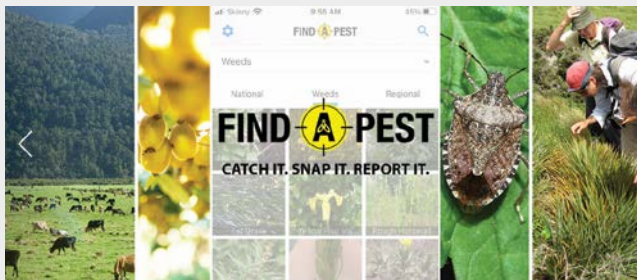
The earlier we detect them the greater the likelihood that we can successfully control or eradicate them.

If you see anything out of the ordinary or believe that you have found something that shouldn't be here, take a photo and if possible, collect a sample and call Biosecurity New Zealand's Exotic Pest and Disease Hotline on **0800 80 99 66** or report online:

<https://report.mpi.govt.nz/pest>.

A specialist investigator will contact you and get any detail and advise you on what might be required (i.e. photos, samples, or site visits). Alternatively, you can submit a photo using the Find-a-Pest app (<https://www.findapest.nz/>). These are then screened before either being sent on to the iNaturalist site for ID or redirected to MPI if they considered to be new to New Zealand. Find-a-Pest is ideal if you are just not sure what you are looking at and want to get an ID relatively quickly with little fuss.

Remember good quality, close up photos of the pest and any plant damage are really useful.



Source Nun moth <https://www.inaturalist.org/observations/35245189>

Source Asian Spongy Moth [https://commons.wikimedia.org/wiki/File:Lymantria\\_dispar\\_MHNT\\_Chenille\\_portrait.jpg](https://commons.wikimedia.org/wiki/File:Lymantria_dispar_MHNT_Chenille_portrait.jpg), Muséum de Toulouse, CC BY-SA 4.0 <<https://creativecommons.org/licenses/by-sa/4.0/>>, via Wikimedia Commons

## SECTION 3

# Export and Production



# Top Export Destinations

For Year Ended March 2021

- 1 Most exports for category
- 2 Second most exports for category
- 3 Third most exports for category



## 1. China (People's Republic of) \$NZ 3,855,967,878

1	Logs	3,468,491,780
	Panels	9,180,164
2	Paper & Paperboard	40,400,391
1	Pulp	255,820,240
3	Sawn Timber & Sleepers	77,258,939
	Other Forestry Products	4,816,364

## 2. Australia \$NZ 574,852,186

	Logs	2,434,533
2	Panels	45,991,167
1	Paper & Paperboard	195,436,006
	Pulp	73,684,327
2	Sawn Timber & Sleepers	128,982,790
1	Other Forestry Products	128,323,363

## 7. Taiwan \$NZ 130,690,093

	Logs	39,740,291
	Panels	10,348,556
	Paper & Paperboard	6,777,234
	Pulp	25,737,303
	Sawn Timber & Sleepers	47,810,273
	Other Forestry Products	276,436

## 8. India \$NZ 125,818,708

	Logs	28,834,622
	Panels	4,181,556
	Paper & Paperboard	9,180,163
3	Pulp	74,838,198
	Sawn Timber & Sleepers	4,656,583
	Other Forestry Products	4,127,586

## 3. South Korea \$NZ 419,927,699

2	Logs	281,852,872
	Panels	396,438
	Paper & Paperboard	13,831,483
2	Pulp	89,072,276
	Sawn Timber & Sleepers	34,168,296
	Other Forestry Products	606,334

## 4. Japan \$NZ 360,231,252

3	Logs	51,238,715
1	Panels	183,544,055
	Paper & Paperboard	517,652
	Pulp	23,492,376
	Sawn Timber & Sleepers	28,896,526
2	Other Forestry Products	72,541,928

## 9. Thailand \$NZ 121,438,371

	Logs	220,650
	Panels	331,407
3	Paper & Paperboard	35,352,037
	Pulp	49,969,955
	Sawn Timber & Sleepers	33,468,346
	Other Forestry Products	2,095,976

## 10. Viet Nam \$NZ 87,334,799

	Logs	410,009
	Panels	24,058,119
	Paper & Paperboard	9,635,046
	Pulp	1,021,808
	Sawn Timber & Sleepers	51,501,291
	Other Forestry Products	708,526

## 5. United States \$NZ 299,167,392

	Logs	
3	Panels	34,495,181
	Paper & Paperboard	4,147,316
	Pulp	
1	Sawn Timber & Sleepers	250,189,781
	Other Forestry Products	10,335,114

## 6. Indonesia \$NZ 163,695,712

	Logs	87,947
	Panels	18,017,243
	Paper & Paperboard	9,783,211
	Pulp	71,408,205
	Sawn Timber & Sleepers	25,586,048
3	Other Forestry Products	38,813,058

## 11. Philippines \$NZ 79,662,849

	Logs	
	Panels	32,096,264
	Paper & Paperboard	16,226,229
	Pulp	12,783,438
	Sawn Timber & Sleepers	18,236,700
	Other Forestry Products	320,218

## 12. Other \$NZ 470,496,545

	Logs	110,284,975
	Panels	23,410,262
	Paper & Paperboard	97,897,291
	Pulp	57,533,722
	Sawn Timber & Sleepers	239,208,246
	Other Forestry Products	26,493,303

Source Top Export Destinations MPI



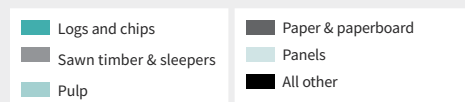
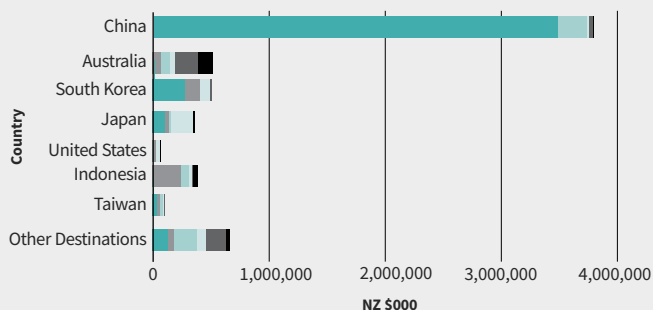
# Export Value by Destination and Product<sup>1</sup>

For year ended 31 December 2021

## Total Export Value by Main Countries of Destination

Country of Destination	Total Export Value (NZD\$)		
	2019	2020	2021
China	3,272,196,860	2,970,924,832	3,855,967,878
Australia	575,135,608	517,511,076	574,852,180
South Korea	393,451,527	366,642,239	419,927,699
Japan	408,747,127	335,915,675	360,231,252
United States	251,542,925	289,508,420	299,167,392
Indonesia	145,667,501	121,032,028	163,695,712
Taiwan	86,952,920	85,782,725	130,690,093
India	326,496,242	157,503,630	125,818,708
Hong Kong	76,584,662	139,516,603	116,320,972
Thailand	136,462,037	123,395,238	121,438,371
Viet Nam	102,149,621	115,650,908	87,334,799
Malaysia	76,055,802	62,588,486	84,526,797
Philippines	97,682,329	65,977,809	79,662,849
Netherlands	44,302,035	37,597,690	54,229,141
Saudi Arabia	60,637,234	52,699,453	42,128,025
All Other Destinations	250,070,037	206,637,605	257,818,407
<b>Grand Total</b>	<b>6,304,134,467</b>	<b>5,648,884,417</b>	<b>6,784,811,177</b>

## Exports of Forestry Products by Main Countries of Destination



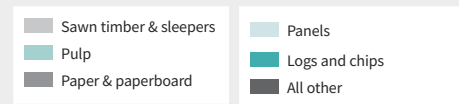
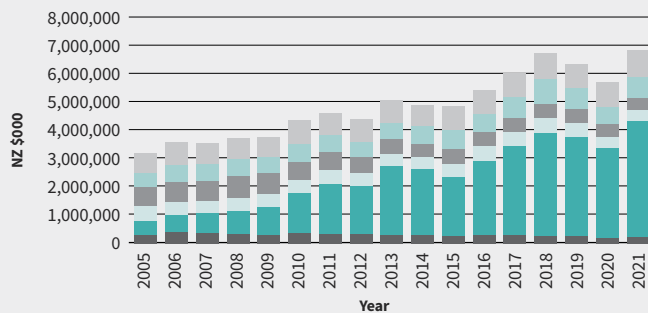
### Notes

- Values are NZ\$ f.o.b. and may include items, e.g. some plywood items, for which no quantities are given.
- All other forestry products include chips, mouldings, manufactures of paper and paperboard, furniture and miscellaneous forestry products.
- Other countries are all other countries to which New Zealand has exported forest products during the year.

Source **Top Export Value by Main Countries of Destination** MPI  
 Source **Exports of Forestry Products by Main Countries of Destination** MPI

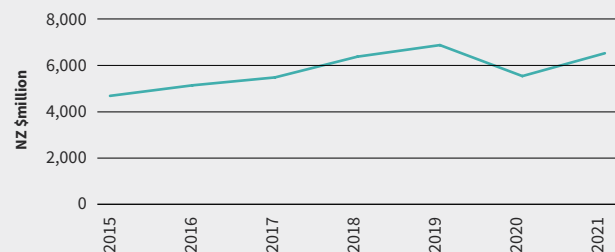
# Major Forest Product Export Earners<sup>1</sup>

For year ended December 2021



## Forestry Product Export Values

For year ended June



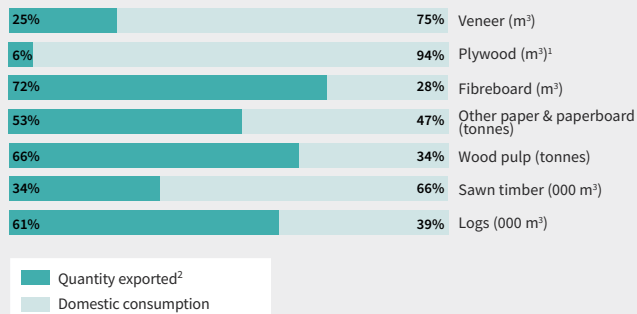
### Notes

- Paper and paperboard includes Newsprint data, therefore differs from Statistics NZ data

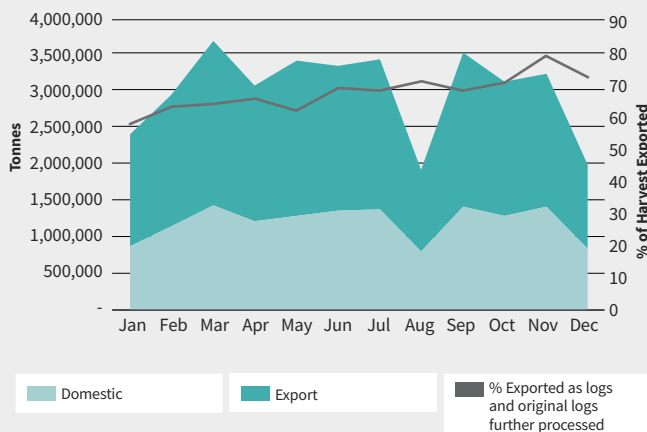
Source **Major Export Earners** Stats NZ and FOA  
 Source **MPI**  
 Source **Forestry Product Export Values** MPI

# Production and Exports of Selected Forestry Products

For Year Ended 31 December 2021



## NZ Plantation Harvest: 2021



Log export returns are expected to reach

# \$3.96 billion,

in the year to June 2026, while other total products returns will reach \$3.07 billion in that same period in time.

1

### Notes

<sup>1</sup> Plywood includes laminated veneer lumber

<sup>2</sup> Exports excluded re-exports

<sup>3</sup> Domestic consumption unavailable

Source: Production and Exports of Selected Forestry Products MPI, Statistics NZ and FOA

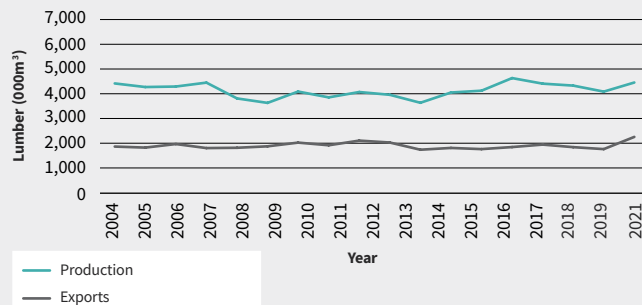
Source: NZ Plantation Harvest 2021 FGLT

Source: Box 1 MPI

# New Zealand Lumber and Log Production and Exports

## Lumber Production and Exports

For Year Ended 2021



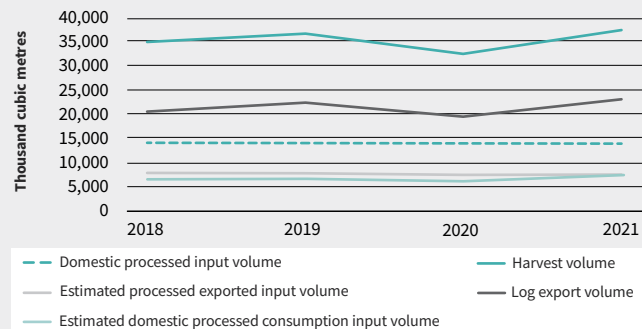
## Forestry Export Revenue, 2019-23 (\$NZ million)

For Year Ended 30 June

Year to 30 June	Actual			Forecast	
	2019	2020	2021	2022	2023
Logs	3,806	2,877	3,854	3,810	3,920
Sawn timber & sleepers	936	809	910	1,010	1,000
Pulp	812	646	663	760	750
Paper & paperboard	491	492	438	430	410
Panels	514	438	389	400	440
Chips	67	56	61	60	70
Other forest products <sup>1</sup>	257	222	215	250	260
<b>Total</b>	<b>6,883</b>	<b>5,539</b>	<b>6,531</b>	<b>6,250</b>	<b>6,470</b>
<b>Y/Y % change</b>	<b>+7.9%</b>	<b>-19.5%</b>	<b>+8.1%</b>	<b>+2.7%</b>	<b>+2%</b>

## Log and Processed Timber Production and Export

Total harvest



### Notes

<sup>1</sup> Other forest products include: structural or moulded wood, furniture and prefabricated buildings

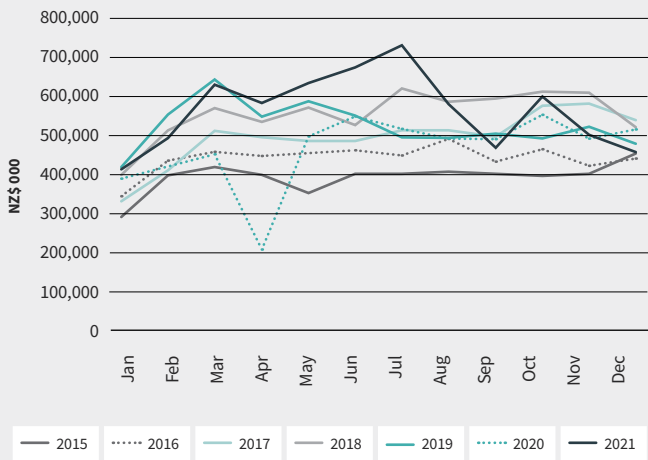
Source: Lumber Production and New Zealand Lumber Exports MPI

Source: Forestry Export Revenue, 2018-23 MPI

Source: Log and Processed Timber Production and Export FOA

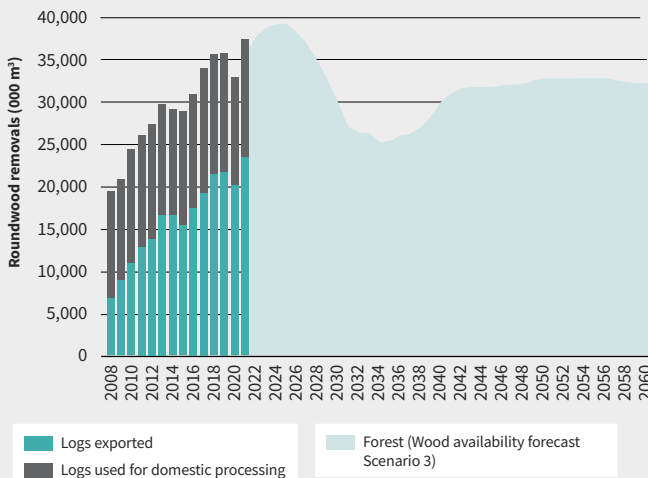
# New Zealand Logs

## Export and Domestic Log Value



## Volume of Logs used in Domestic Processing versus Exported

For Year Ended December



Source Export and Domestic Log Prices MPI

Source Volume of Logs used in Domestic Processing versus Exported MPI

# Forestry and Wood Draft Industry Transformation Plan August 2022

**BY 2030 THE INDUSTRY WILL INCREASE;**



LOGS PROCESSED EACH YEAR

**↑25%**

(UP FROM 14.2 MILLION M<sup>3</sup> TODAY)

USE OF TIMBER IN CONSTRUCTION EACH YEAR BY

**↑25%**

(UP FROM 1.4 MILLION M<sup>3</sup> TODAY)

THE SPECIES RANGE BY REDUCING YEARLY PLANTING OF PINUS RADIATA FROM 96% TO

**↑80%**

**BY 2040 THE INDUSTRY WILL INCREASE;**

VALUE ADDED YEARLY EXPORTS FROM \$2.5 BILLION TO

**↑\$3.1 billion**

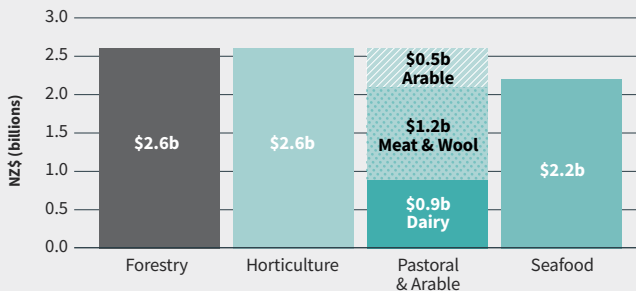
**BY 2050 THE INDUSTRY WILL HAVE PROVIDED;**

**14 million m<sup>3</sup>**  
INNOVATIVE CONSTRUCTION MATERIAL

**16.4 million m<sup>3</sup>**  
COAL REPLACEMENT MATERIAL

**49.3 million m<sup>3</sup>**  
OIL FUEL REPLACEMENT MATERIAL

## Anticipated additional export sector returns in 2030



### Notes

Both 2020 and 2030 harvests are assumed at 36mm<sup>3</sup> of logs

Source A Transformation Scenario for New Zealand FOA

Source Anticipated additional export sector returns in 2030 Fit for a Better World - Background analysis on export earnings in the primary sector

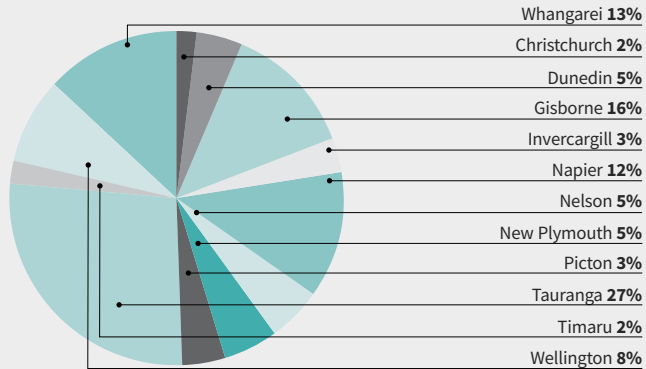
# Log Exports by Port

## Log Export Quantity and Export Value by Port

For Year Ended December 2021

Port of Loading	Export Quantity (m <sup>3</sup> )	Export value (\$NZ)
Auckland	91,524	19,998,101
Christchurch	493,745	89,358,483
Dunedin	972,550	156,534,513
Gisborne	2,881,097	520,398,307
Invercargill	730,045	153,946,352
Napier	2,809,508	502,737,202
Nelson	1,176,544	170,390,399
New Plymouth	1,168,379	193,617,699
Picton	934,355	143,681,470
Tauranga	6,090,840	1,114,968,225
Timaru	529,590	79,581,143
Wellington	1,863,417	301,840,769
Whangarei	2,907,087	536,543,731
<b>Total</b>	<b>22,648,682</b>	<b>3,983,596,394</b>

## Logs Percentage Export Quantity by Port<sup>1</sup>



### Notes

<sup>1</sup> Ports with <1% not included.

Source Log Export Quantity and Export Value by Port MPI

Source Logs Percentage Export Quantity by Port MPI

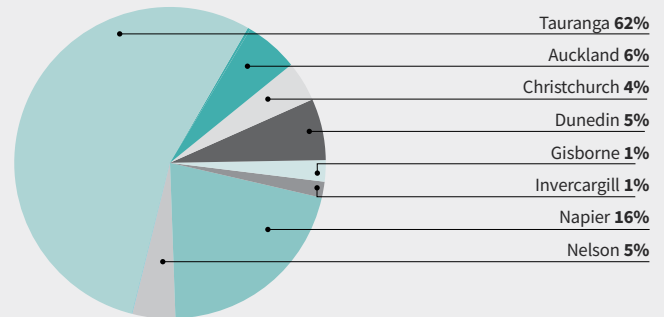
# Sawn Timber Exports by Port

For Year Ended December 2021

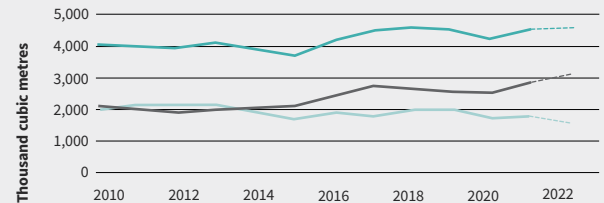
## Sawn Timber Export Quantity and Export Value by Port

NZ Port	Export Quantity	Export value (\$NZ)
Auckland	86,048	55,815,517
Christchurch	67,322	36,316,097
Dunedin	97,320	44,485,918
Gisborne	32,308	7,338,275
Invercargill	24,256	9,907,568
Napier	320,439	154,144,203
Nelson	70,382	42,310,090
New Plymouth	50	9,698
Tauranga	832,661	585,236,178
Wellington	2,987	4,100,428
Whangarei	990	299,847
<b>Total</b>	<b>1,534,763</b>	<b>939,963,819</b>

## Sawn Timber Export Quantity by Port



## Domestic demand for sawn timber



Production

Domestic

Export

Source Sawn Timber Export Quantity and Export Value by Port MPI

Source Sawn Timber Percentage Export Quantity by Port MPI

Source Domestic demand for sawn timber MPI, SOPI

# Forest Processing Industry 2021

Updated March 2021

## Northland

BBS Timbers Ltd, Whangarei	
CHH Woodproducts, LVL (Marsden Point)	
Colville Sawmill Company	
Croft Poles Ltd (Whangarei)	(S)
ETC 2006 Ltd, Marsden Point	
Juken New Zealand Ltd	(S)
Northland Mill (Kaitaia)	
Juken New Zealand Ltd	
Triboard Mill (Kaitaia)	
Kaihu Valley Sawmill, Mamaranui	(S)
Kiwi Timber Protection Ltd, Whangarei	(MW)
Mac Direct Ltd, Patumahoe	(S)
Marusumi Whangarei Ltd (Marsden Point)	
Mt Pokaka Timber Products (Kerikeri)	(S)
North Sawn Lumber (Marsden Point)	
Northpine Sawmill (Waipu)	(S)
Rosvall Sawmill (Whangarei)	(S)
Timpack Industries Ltd, Auckland	(MW)
TTT Products (Tuakau)	
Waipapa Pine (Whangarei)	(S)

## Auckland

Abodo Wood Ltd, Auckland	
Anderson & O'Leary Ltd (Pinepac), Whenuapai	
Big Tuff Timber Products Limited, Puhinui	
Central Frame and Truss, Auckland	
Claymark Ltd, Henderson	(MW)
Claymark Ltd, Thames	(S)
Cypress Sawmill, Waitoki	(S)
Herman Pacific Ltd, Silverdale	(S)
Max Birt Sawmills (Pokeno)	(S)
Jenkin Timber (Auckland)	
JSC Timber, Kumeu	(MW)
Kopine, Thames	

Max Birt Sawmill (Ohinewai)	(S)
Oji Fibre Solutions, Penrose	(PTP)
Pallet Supplies Co Ltd, Manukau	
Papakura Timber Processors Ltd, Papakura	(S)
Timberlab Solutions Ltd (Auckland)	
Topuni Timber Ltd, Kaiwaka	
TTT Products Ltd, Tuakau	(PO)
G J Weck and Sons Limited, Papakura	

## Central North Island

Alkieman Custom Jointing Ltd, Tokoroa	
Central Wood Recyclers Limited	
CHH Woodproducts Kawerau Sawmill (Kawerau)	(S)
CHH Woodproducts, Plywood (Tokoroa)	(P)
Claymark Profiles, Rotorua	
Claymark Rotorua Sawmill Ltd (Rotorua)	(S)
Claymark Sawmills (Katikati)	(S)
Donnelly Sawmills (Rotorua)	(S)
Hautapu Pine Products Limited, Taihape	(PO)
Hume Pine (Rotorua)	
Kiwi Lumber (Putaruru)	(S)
KLC (Rotorua)	
Laminated Beams Ltd (Papamoa)	
Laminex Group (Taupo)	
Les O'Leary Limited, Tokoroa	(S)
Lockwood Group (Rotorua)	
Lumbercorp N.Z. Ltd Huntly	
LumberOne Ltd (Tauranga)	
McAlpines (Rotorua)	(S)
North Sawn Lumber Ltd, Ruakaka	
Oji Fibre Solutions Kinleith Mill (Tokoroa)	(PP)
Oji FS Tasman Ltd (Kawerau)	(PP)

Otorohanga Timber Company (Otorohanga)	
OTC Timber Co Ltd, Otorohanga	
Pedersen Kawerau Limited	(PP)
Pedersen Kinleith Limited	(PP)
Permapine (Reporoa)	
Pacific Pine Industries (Putaruru)	(S)
Pine Sawmills (Rotorua)	(S)
Pukepine Sawmills (1998) Ltd, Te Puke	
Pure Pine Mouldings (Te Puke)	
Red Stag Timber (Rotorua)	(S)
R.H. Tregoweth Ltd, Te Kuiti	(S)
SCA Hygiene Australasia (Kawerau)	(PP)
Sequal Lumber (Kawerau)	(S)
Tauriko Sawmill & Timber Supplies, Tauranga	
Tenon Manufacturing Ltd (Taupo)	(S)
Timpack Industries Ltd, Mount Maunganui	(MW)
Waitete Sawmills Ltd, Te Kuiti	
Whakatane Mill Ltd (Whakatane)	(PP)
Winstone Pulp International (Ohakune)	(S, PP)
WJ Mouldings Ltd (Tauranga)	
WPI Tangiwai Sawmill & Pulpmill, Karioi	(S, PP)

## East Coast

East Coast Lumber Ltd	
Juken New Zealand, Gisborne Mill	
Kiwi Lumber (Gisborne) Limited, Gisborne	
Wood Engineering Technology Ltd	(S)

## Hawke's Bay

East Coast Lumber (Wairoa)	(S)
Napier Pine (Napier)	(S)
Pan Pac Forest Products Ltd (Napier)	(S, PP)
Ruahine Timber 2017 Limited, Ormondville	(PO)
The Pallet Company Ltd, Napier	
Tumu Timbers (Hastings)	

## Southern North Island

Clelands Timber Products Ltd (New Plymouth)	(S)
Davis Sawmilling Co (Featherston)	(S)
Eastown Timber Products Ltd (Whanganui)	(S)
Juken New Zealand (Masterton)	(S/PP)
Kaimata Sawmills, Inglewood	(S)
Kiwi Lumber (Dannevirke)	(S)
Kiwi Lumber (Masterton)	(S)
Lumber Processors, Pahiatua	(S)
Mangorei Plus, New Plymouth	(S, PO)
Mitchpine Ltd (Levin)	(S)
Pukeko Sawmills, Lepperton	(S)
Taranakipine, Bell Block	(S)
Taranakipine Ltd (New Plymouth)	
Taranaki Sawmills Ltd	
Teclham (Levin)	
Ticehurst Timber Processors Ltd, Carterton	
Timpack Industries Ltd, New Plymouth	(MW)
Value Timber Supplies Ltd, Inglewood	
W Crighton & Son Ltd (Levin)	(S)

## Nelson/Marlborough

CHH Wood Products, Nelson Sawmill (Eves Valley)	(S)
D&E Taylor Timbers Ltd, Hope	
Eurocell Wood Products (Nelson)	
Goldpine Ltd (Richmond)	

# Forest Processing Industry 2021

Continued

Halswell Timber Limited (Nelson)		Philip Wareing Ltd, Methven	
Heagney Bros Ltd, Blenheim		Point Lumber Ltd, Washdyke	(PO)
Motueka Lumber Co (Motueka)	(S)	Southern Pine Products Ltd (Christchurch)	
Nelson Forests Ltd (Renwick)	(S)	SRS New Zealand Ltd (Rolleston)	(S)
Nelson Pine Industries (Richmond)	(PP)	Starwood Products Ltd (Timaru)	
Oji Fibre Solutions (NZ) Tasman		Steve Murphy Limited, Kaiapoi	
Plankville Ltd, Richmond	(S)	Stoneyhurst Timbers Ltd (Christchurch)	(S)
Prowood Ltd (Motueka)	(S)	Sutherland & Co Ltd, Kaiapoi	
Southpine Ltd (Nelson)	(S)	Temuka Timber & Firewood, Temuka	
Southwood NZ Limited, Motueka	(S)	Timpack Industries Ltd, Timaru	
Timberlink New Zealand Ltd, Blenheim		Triple Trees Ltd T/A Waitohi Timber, Temuka	
Timpack Industries Ltd, Nelson	(MW)	Westco Lumber Ltd (Christchurch)	(S)
XLAM (Nelson)	(MW)		

## Canterbury

Adams Sawmilling Co Ltd, Ashburton	(S)
Ashley Industrial Services Ltd, Oxford	(S)
Belfast Timber (Christchurch)	
Bennetts Sawmill Limited, Oxford	(S)
Brindle Sawmills Ltd (Christchurch)	(S)
Canterbury Roundwood 2006 Ltd, Rangiora	(MW)
Canterbury Woodchip Supplies Limited, Arundel	(CEF)
Daiken (Rangiora)	(MW, PP)
Fraemohs Industries (Kaiapoi)	
John Fairweather Specialty Timber Solutions, Sefton	(S)
Loburn Sawmill Limited, Loburn	(MW)
Lumberworx Ltd (Christchurch)	(MW)
McAlpines (Rangiora)	(S)
McVicar Timber Group Ltd, Christchurch	(S)
Mitchell Bros Sawmillers Ltd, Darfield	(S)
Niagara Sawmilling Ashburton	

## West Coast

International Panel and Lumber Ltd (Greymouth)	(PP)
NZ Sustainable Forest Products Ltd (Reefton)	(S)
Southern Pine Products Ltd (Stillwater) (Greymouth)	(S)
Stillwater Lumber Ltd, Stillwater	(S, WP)
Westco Lumber Ltd (Hokitika)	(S)
Westimber Limited, Ngahere	(S)

## Otago Southland

Beven West Sawmilling Ltd, Invercargill	(S)
Craigpine Timber Ltd (Winton)	(S)
Daiken Southland Ltd (Mataura)	
Findlater Sawmilling Ltd, Winton	
Gorton Timber Co Ltd, Milton	
Hewwan Enterprises Ltd, Palmerson	
Hollows Timber Co Ltd, Balclutha	
Lindsay & Dixon (Tuatapere)	(S)

Ngahere Sawmilling Co (Gore)	(S)
Niagara Sawmilling Co Ltd (Invercargill/Ashburton)	(S)
Otago Lumber (Gore)	(S)
Pan Pac Otago (Mosgiel and Milton)	(S)
Pankhurst Sawmilling (2015) Ltd, Riverton	(S)
Pooles Timber Ltd t/a Great Southern, Invercargill	(S)
Southwood Exports (Awaaura)	
Stuart Timber Co Ltd (Tapanui)	(S)
Timpack Industries Ltd, Dunedin	(MW)
Truss Tech (Cromwell)	
Young Brothers (2016), Mosgiel	(PO)

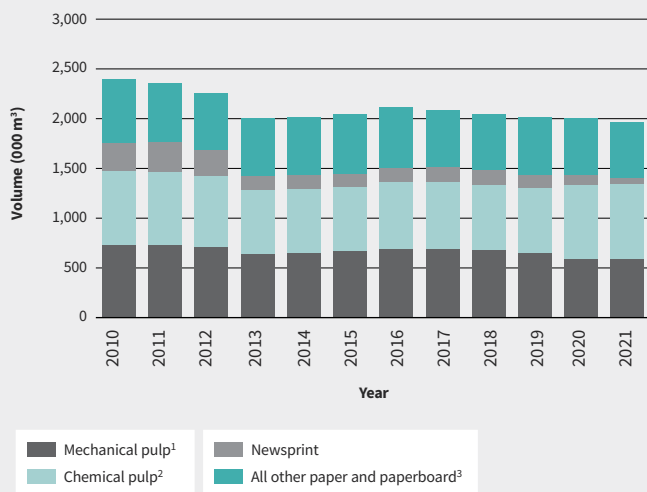
## Sawmills

Processing Plants	
Fibreboard (MDF & Hardboard)	F
Particleboard (Incl Strandboard)	P
Plywood	PL
Poles	PO
Pulp and Paper	PP
Veneer/LVL/CLT	V
Paper/Tissue/Paperboard	PTP
Chip Export Facilities	CEF
Manufactured Wood Products	MW

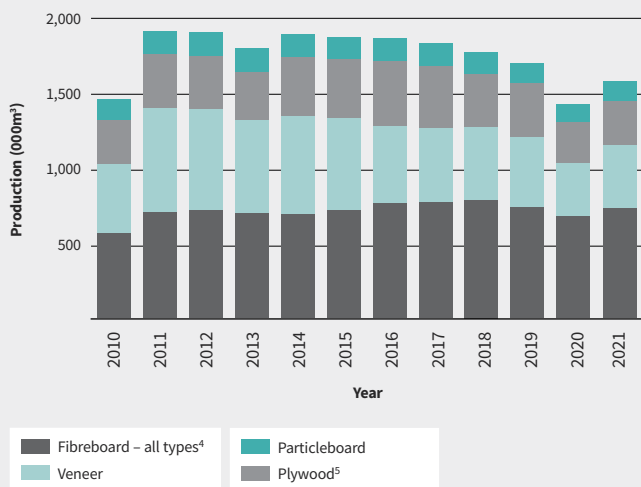


# Paper, Pulp and Panel Products Production

## Paper and Pulp Production 2010-2021



## Panel Products Production 2010-2021



### Notes

- <sup>1</sup> Mechanical Pulp is those export items in HS item grouping 4701.
- <sup>2</sup> Chemical Pulp is those export items in HS groupings 4702, 4703, 4704 and 4705.
- <sup>3</sup> All other paper and paperboard includes printing and writing paper, other paper and paperboard.
- <sup>4</sup> Fibreboard includes MDF, hardboard & softboard.
- <sup>5</sup> Plywood includes laminated veneer lumber.

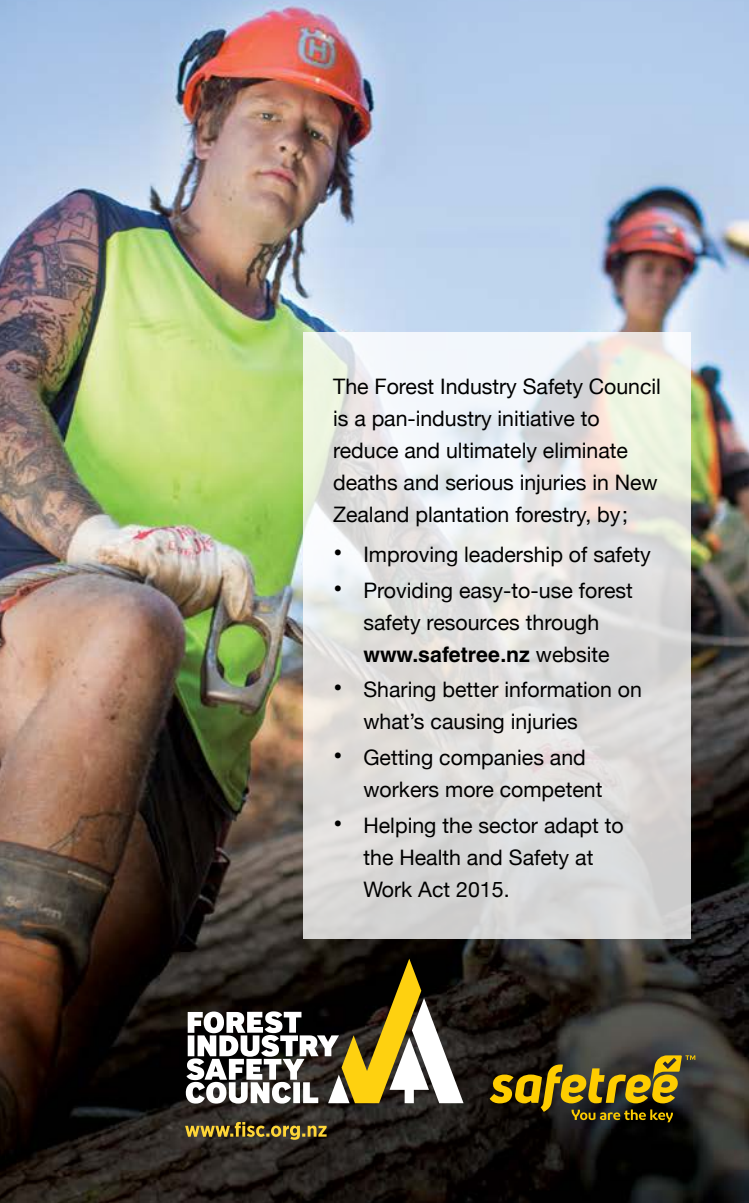
Source **Paper and Pulp Production** MPI  
 Source **Panel Products Production** MPI

## SECTION 4

# Health, Safety and Training



# TOGETHER TOWARDS ZERO



The Forest Industry Safety Council is a pan-industry initiative to reduce and ultimately eliminate deaths and serious injuries in New Zealand plantation forestry, by;

- Improving leadership of safety
- Providing easy-to-use forest safety resources through [www.safetree.nz](http://www.safetree.nz) website
- Sharing better information on what's causing injuries
- Getting companies and workers more competent
- Helping the sector adapt to the Health and Safety at Work Act 2015.

**FOREST  
INDUSTRY  
SAFETY  
COUNCIL**

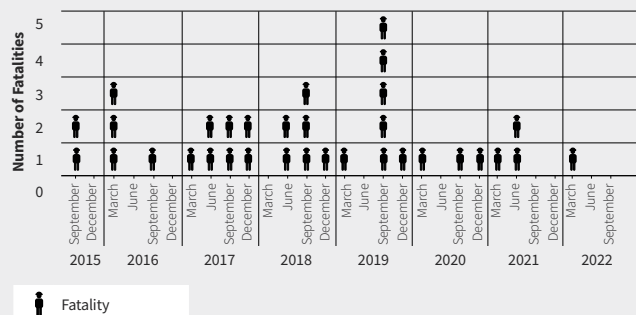


**safetree**<sup>™</sup>  
You are the key

[www.fisc.org.nz](http://www.fisc.org.nz)

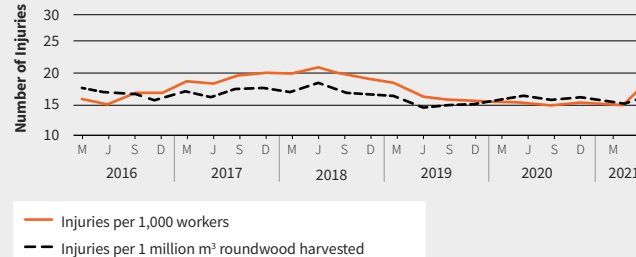
## Health and Safety in the Forest Industry 2015-2022

### Fatalities as at May 2022



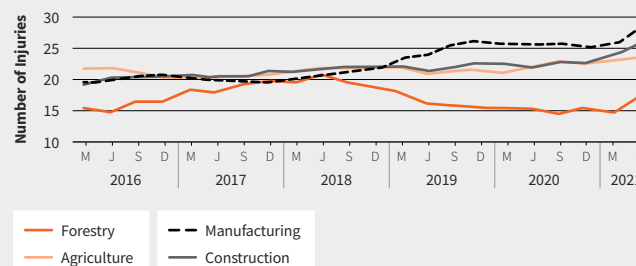
### Severe Injuries<sup>1</sup>

Rate of injuries to workers resulting in more than a week off work



### How Do We Compare?<sup>2</sup>

Rate of injuries to workers resulting in more than a week off work



#### Notes

<sup>1</sup> Rolling average last four quarters.

<sup>2</sup> Rolling average last four quarters per 1,000 workers.

Injury data in this dashboard is based on ACC claims where someone receives a period of weekly compensation within a quarter. This data lags by 6 months due to claim processing time.

Source **Fatalities** WorkSafe/MPI/FISC

Source **Severe Injuries** WorkSafe/MPI/FISC

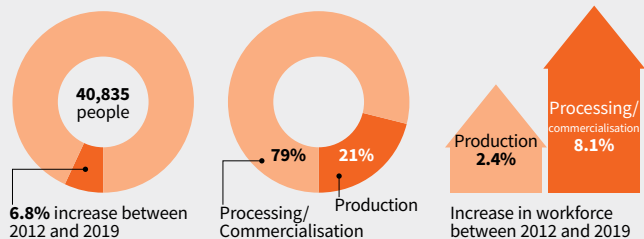
Source **How Do We Compare?** WorkSafe/MPI/FISC



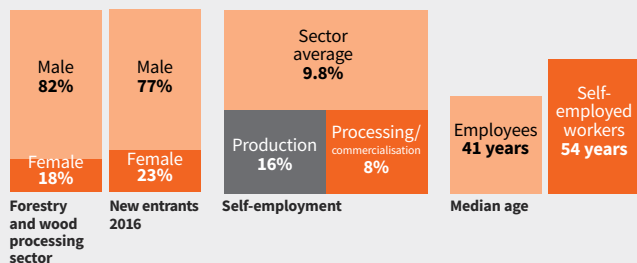
# Forestry Workforce

## Workforce count

The forestry and wood processing workforce makes up 11.1 percent of the food and fibre workforce. The sector is significantly more male dominated than other sectors, with men making up 82 percent of workers.

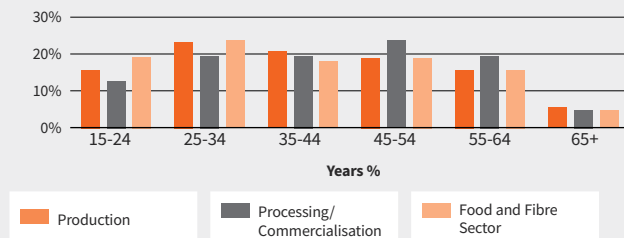


## Demographics

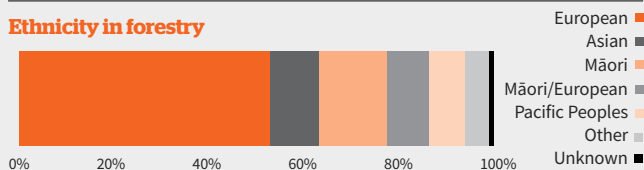


## Age profile

The processing/commercialisation workforce has an older profile than the production and food and fibre sectors workforce. Workers aged 55 years and over comprise 24 percent of the workforce.



## Ethnicity in forestry



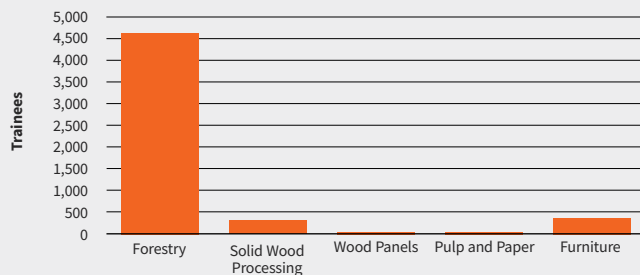
Source Food and fibre workforce: Snapshot MPI

# Industry Training 2021

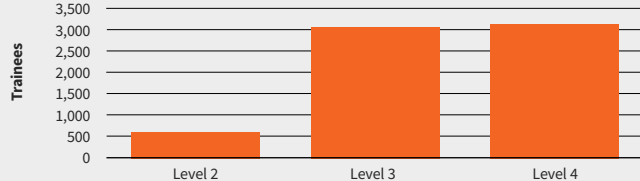
25 students completed their degrees at the University of Canterbury School of Forestry in 2021 – 15 with the Bachelor of Forestry Science and 10 with Bachelor of Engineering (Honours) (Forest Engineering).

1

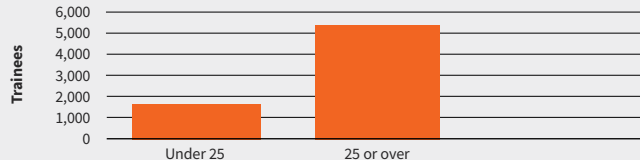
## Trainee Count



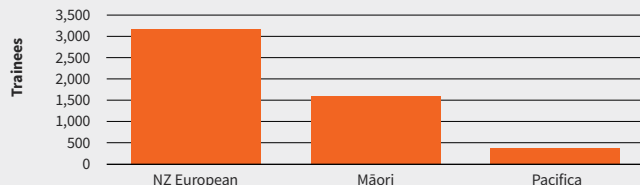
## Trainee by Qualification Level



## Trainees by Age



## Trainees by Ethnicity



Source Box 1 University of Canterbury

Source Industry Training 2021-2022 Competenz

# Free forestry training\*

Includes forestry apprenticeships,  
traineeships and micro-credentials

Employers of first or second-year  
apprentices may be eligible for wage  
subsidies

Micro-credentials are available  
in tree planting and the forestry  
environment

Flexible programmes to suit your  
business.

\*Forestry qualifications are free from 01 July 2020 to 31 Dec 2022

Contact your account manager  
to talk about free training today

**0800 526 1800**  
**freetraining@competenz.org.nz**  
**competenz.org.nz**

## SECTION 5

# Supplementary Information



**Vision for 2050:** Forestry will be New Zealand's number 1 primary sector and exemplify the best plantation forest management in the world.

**01**

Tree growth and forest production efficiency will have both doubled.

**02**

Our increasingly diverse forests will provide valuable products tailored to our customers' needs.

**03**

People will be attracted to work in forestry because they will be safe, valued and well trained.

**04**

Expanding commercial plantation forestry will have been the prime means of achieving New Zealand's net zero carbon goal by 2050, while providing other substantial environmental and social benefits.

**05**

Our licence to operate will have widespread support.



Source A Forestry Roadmap for Aotearoa New Zealand Forest Owners Association 2020 – 2050



The current Harvested Wood Material Levy Order runs from 2019 to 2025. It is the second six-year order for wood material under the Commodity Levies Act 1990 voted for by Levy payers during the period. The Levy is paid on logs delivered to mills and ports. The present rate is 33 cents per tonne of harvested log.

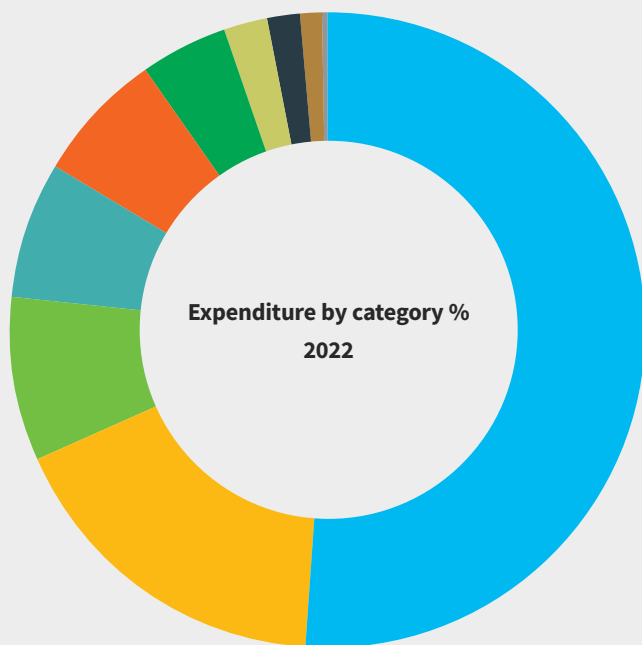
The Levy generated in 2021 was \$11,717,060, which was an increase of 35% on 2020, the year of Covid lockdown disruptions.

The Levy investment, through a yearly industry good Work Programme, is made by a seven-person board with an independent chair and representation of both larger and smaller scale foresters.

<https://fglt.org.nz/>



## How the FGL is Invested



### 51.3% Research, Science and Technology

Research across the value chain, including specific *Pinus radiata* research, diseases, forest fire behaviour, wilding conifer control, propagation, automation, safety, environment and timber processing.

### 17.1% Operational Costs (incl. Administration)

Represent Levy collection and database maintenance costs, business compliance costs and all direct costs associated with supporting FGLT secretariat and the planning, management and delivery of the annual Work Programme.

### 8.4% Forest Biosecurity

Surveillance of high-risk sites including field activities and diagnostic identification of samples. Find-A-Pest app with co-investment by MPI and other stakeholders, and development of a Plant Production Biosecurity Scheme.

### 6.7% Promotions

'Love our Forests' campaign and, with MPI, the 'Wood - Our Low Carbon Future' promotion, with print, television, social media, field days and highway billboards.

### 7.0% Health and Safety

This is the industry commitment to support the work of the Forest Industry Safety Council (FISC) to drive down the number of forest accidents. Work has included a major review of the Certified Contractor Scheme.

### 4.3% Training and Careers

The Training and Careers Committee is a forum of owners, contractors, training providers and government.

### 2.2% Forest Resources and Environment

This Committee works on forest growing and environment issues, including Forest Stewardship Council certification, biodiversity and freshwater management and climate change.

### 1.8% Transport

This Committee works closely with the Log Transport Safety Council and represents forest growers' interests to local and central government.

### 1.0% Small and Medium Forest Enterprises

SME delivers on the particular interests of small scale foresters who are now responsible for 40% of the harvest. An upgraded Forest Address Database lists more than 16,000 owner entries on which a mid-term report on the current levy programme has been distributed.

### 0.2% Fire

Contributes to Fire and Emergency NZ's fire season awareness campaign and works with Fire and Emergency NZ to support rural fire prevention and management.

# New Zealand's Greenhouse Gas Inventory

## The Carbon Cycle

Planting trees begins a cycle that continuously removes, releases and re-absorbs greenhouse gases such as carbon dioxide. As trees grow, they absorb carbon dioxide through the process of photosynthesis. The carbon dioxide absorbed by the growing forest remains stored within the wood products used throughout the lifetime of the building structure or product.

When a structure or product reaches the end of its lifetime, the carbon dioxide is released back into the atmosphere as the wood decays or is burnt as fuel.

Wood can be recycled to extend its lifetime and slow down the natural release of carbon dioxide back into the atmosphere. Once the carbon dioxide is released, it is available to be re-absorbed by growing trees.

## New Zealand's Greenhouse Gas Inventory

In 2020, New Zealand's total gross emissions were 78.8 million tonnes of carbon dioxide (Mt CO<sub>2</sub>-e). In 1990, gross emissions were 65.2 Mt CO<sub>2</sub>-e. In 2020, 23.3 Mt CO<sub>2</sub>-e was removed from the atmosphere by the forestry sector, compared with 21.2 Mt CO<sub>2</sub>-e in 1990. Forestry sector carbon removals in 2020 reduced total emissions to 55.5 Mt CO<sub>2</sub>-e net or a 29.6% offset.

Agriculture continued to be the largest contributor to New Zealand's Greenhouse Gas Emissions, with 50% of the total at 39.4 Mt CO<sub>2</sub>-e, compared with energy at 40%.

	Total emissions (million tonnes CO <sub>2</sub> -e)	2018-20 Population (millions)	Emissions per each (tonnes CO <sub>2</sub> -e)
Sheep	-10.6	23.6	-0.5
Deer	-0.9	0.7	-1.3
Beef	-7.6	3.7	-2.1
Dairy	-17.7	6.0	-3.0
Cars	-17.5	3.8 <sup>+</sup>	-4.7 <sup>*</sup>
Plantation pines	-21	1,099	-0.019



### Notes

<sup>1</sup> Based on figures from the Agricultural Inventory Model, used in New Zealand's Greenhouse Gas Inventory 1990-2017 report published by MfE

<sup>+</sup> Motor Industry Association

Source MfE, FOA

Source Stock numbers from SOPI June 2022, Emissions, MfE, including New Zealand Greenhouse Gas Inventory 1999 – 2020

# Forests Removing Carbon

## How is carbon removed from the atmosphere by New Zealand's forests?

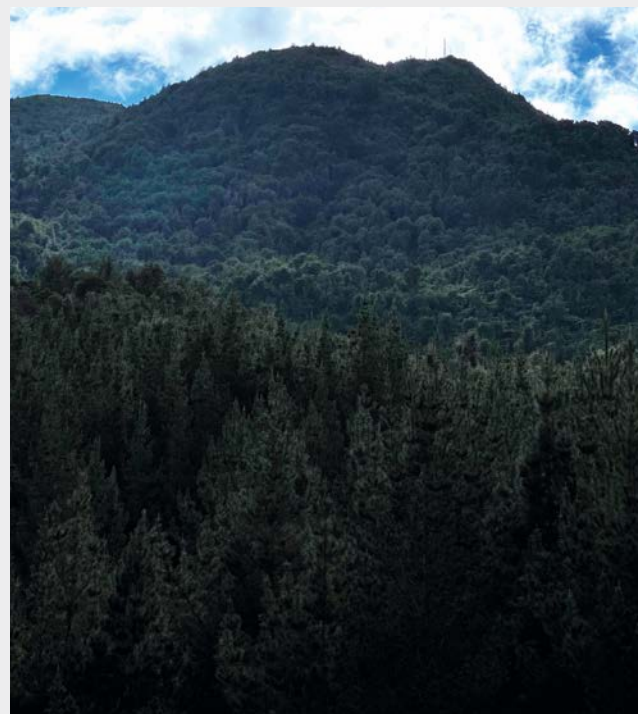
Forests act as carbon sinks – a reservoir which removes and stores more carbon from the atmosphere than it releases. Trees use carbon dioxide (CO<sub>2</sub>) as part of their 'breathing' cycle – taking in CO<sub>2</sub> and storing it within roots, trunks and branches – and releasing oxygen.

A young forest will remove small amounts of CO<sub>2</sub> until the trees establish and when forests will remove the most carbon. As a forest ages and its growing process slows, it will revert to absorbing less carbon again.

At harvesting, the forest ceases to be a carbon sink. But instead of releasing all the carbon it has stored, the harvested wood retains some of it. All wood products store carbon that will eventually be released, however the rate at which that carbon is released depends on the type of product and the type of treatment the wood has undergone.

The amount of carbon removed by New Zealand's forests is therefore dependent on the coverage of forestland, the age and species of the trees and the rate of harvest.

New Zealand has committed to reduce net greenhouse gas emissions to 30% below 2005 levels by 2030 and to zero by 2050.



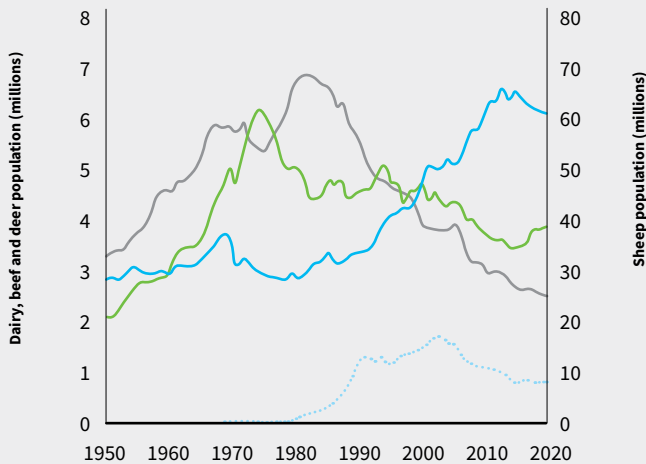
Source 1990 to 2015 National Greenhouse Gas Inventory

# Methane emissions by livestock in New Zealand between 1950 and 2021

## Livestock numbers and livestock methane emissions between 1950 and 2021.

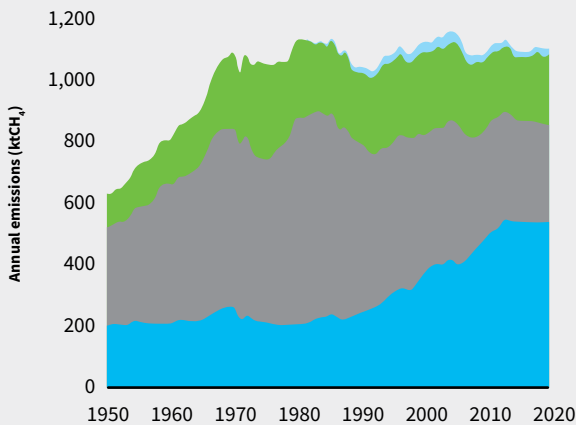
The charts begin in 1950 because this is the first year that disaggregated statistics for dairy cattle and beef cattle are available.

### Livestock numbers



— Dairy — Sheep — Beef ..... Deer

### Livestock methane emissions

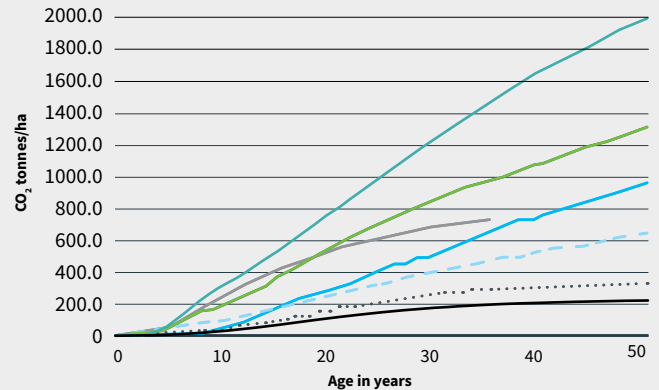


— Dairy — Sheep — Beef — Deer

Source Parliamentary Commissioner for the Environment

# Carbon Sequestration

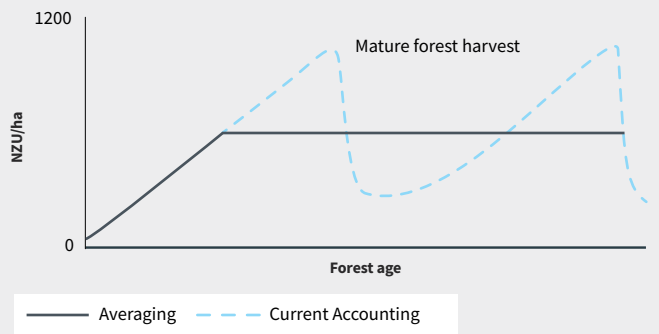
## Default Yield Tables of CO<sub>2</sub> Storage for Radiata and Other Tree Species



— Douglas Fir — Exotic Hardwood — Radiata pine (Auckland region) — Exotic Softwood ..... Indigenous — Indigenous — Radiata pine

Actual measured forest carbon sequestration graphed by Dr Euan Mason, University of Canterbury.

### Carbon accounting practices



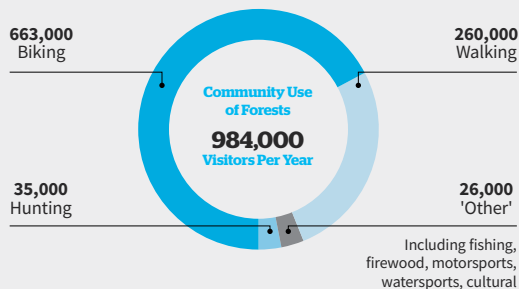
— Averaging - - - Current Accounting

Forests first registered in the ETS between 1 January 2019 and 31 December 2022 will have the option to move to averaging in 2023. Forests registered before 1 January 2019 will remain on the stock change (current) approach. 350,000 ha are currently registered in the ETS.

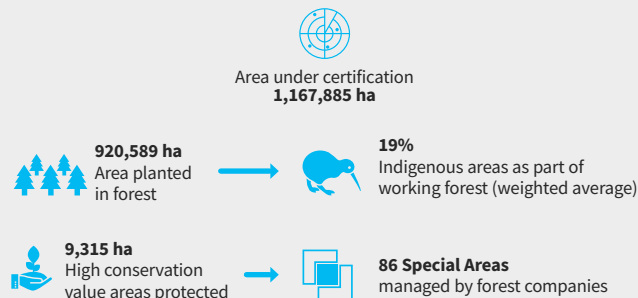
Source Default Yield Tables of CO<sub>2</sub> Storage for Radiata and Other Tree Species MPI  
 Source Carbon accounting practices SOPI June 2019, ITP  
 Source All regions were averaged for radiata pine, and the native forest lookup table data points were taken directly from MPI's table. ETS forest measurement approach averages of carbon actually sequestered. The data used were supplied by MPI and graphed by Dr Euan Mason of the University of Canterbury without any summaries or changes.

# FSC Certified Plantation Forests Contribution to Social, Economic and Environmental Wellbeing

## Visitors

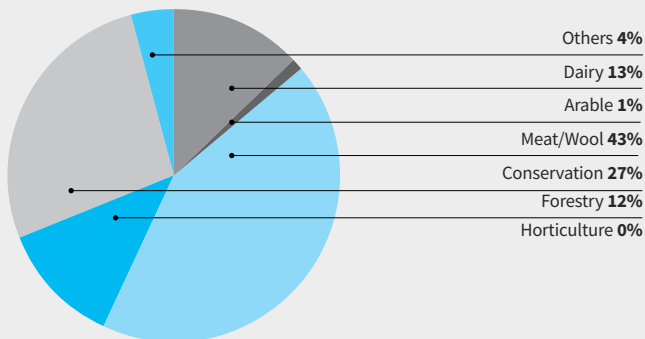


## Area Certification Statistics



## Area Burnt by Land Use for the 2020/21 Season

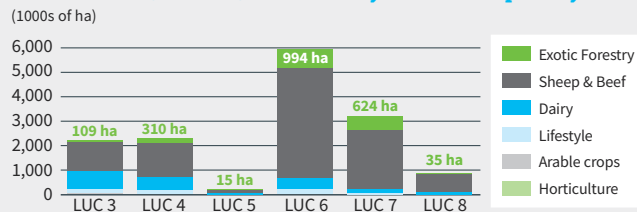
During the 2020/21 wildfire season, Meat/Wool land area was significantly impacted by wildfires (43% of the total area burnt across the country) followed by conservation land (27%).



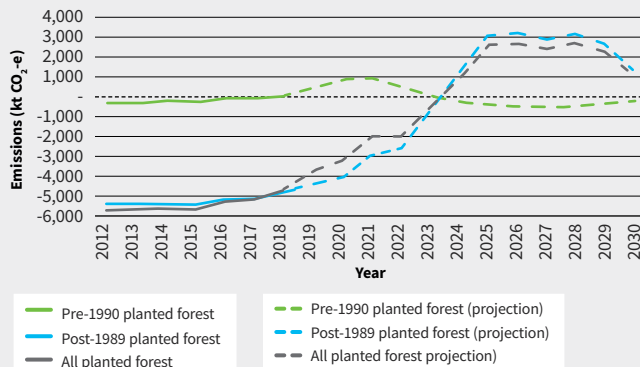
Source: Area Burnt by Land Use for the 2020/21 Season Scion, Fire Emergency New Zealand

# Forestry as a Land Use

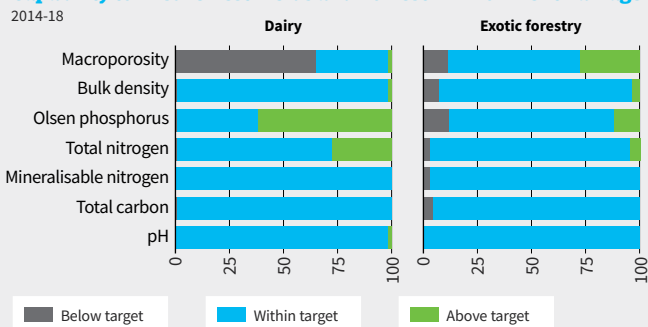
## Farms Online (15.9m ha) - Land Use by Land Use Capability<sup>1</sup>



## Net Emissions and Removals from Vegetation and Soils on Sheep and Beef Farms



## Sites within Target Range of Soil Quality Indicators by Land Use Capability to Ensure Best Yields and Lowest Environment Damage



### Notes

<sup>1</sup> The highest Land Use Capability class is 1, with classes 1-4 capable of cultivation, to steep class 8 with little productive capacity.

Source: Farms Online - Land Use by Land Use Capability MPI

Source: Net emissions and removals from vegetation and soils on sheep and beef farms MfE, March 2021

Source: Sites within Target Range of Soil Quality Indicators by Land Use, 2014-18 Manaaki Whenua - Landcare Research

## Sector Agreements

### Plantation Forestry Rural Fire Control Charter 2021

FOA, FFA, FENZ and Te Uru Rākau New Zealand Forest Service support a charter to encourage working together to develop and promote objectives and actions to improve wildfire management for NZ, and communicate these objectives to our respective members and personnel.

### Forestry Sector and Transpower MOU 2018:

FOA, FFA and FICA signed this working relationship MOU with Transpower to promote safety compliance, risk minimisation and works coordination where forestry is near Transpower's lines.

### Forest Government Industry Agreement for Biosecurity 2015

The FOA has signed a Government Industry Agreement to protect New Zealand forests from introduced pests, weeds and diseases through sharing of costs and decision making. The Forest Biosecurity Surveillance programme began on 1 July 2016, covering all commercial plantations.

### Forest Industry Safety Council 2015

The FOA is participating in FISC as the pan-industry Health and Safety initiative. FISC has an independent cross sector board. FISC's mission is to reduce the rate of serious injury and fatalities in plantation forests, with an ultimate goal of eliminating them.

### Cooperation with Farmers 2013

The MOU with Federated Farmers, FOA and FFA is to manage relationships between forest owners/managers and their farming neighbours to promote co-operation and constructive neighbourly relations.

### Eliminating Illegal Forest Products 2008

The FOA, WPMA and Pine Manufacturers Association joined NGOs in calling on the New Zealand government, importers, processors, retailers, New Zealand forest and plantation managers and processors of forest and plantation products, to strongly oppose the importation and use of illegally harvested and traded forest products in New Zealand.

### New Zealand Climate Change Accord 2007

An agreement between FOA/FFA, the Timber Design Society and eight NGOs acknowledging the contribution of indigenous and plantation forests to mitigate climate change, which also provides a renewable, reusable and recyclable resource. The Accord endorses the principle of polluter pays.

### New Zealand Forest Accord 1991 and 2007

The Forest Accord is between forest and timber groups and 10 NGOs to agree on; defining areas unsuitable for forestry, maintaining existing natural forest, recognition of commercial forestry as essential, indigenous forest extraction only on a sustainable basis and new forests not disturbing natural indigenous vegetation.

## Terms, Names and Sites

### Area and volume

- An average *Pinus radiata* tree yields 2.4 m<sup>3</sup> of wood at harvest.
- 1 hectare of 28 year-old *Pinus radiata* contains between 650 and 800 m<sup>3</sup> of wood.
- 1 hectare grows up to 28 m<sup>3</sup> of wood each year.
- A log truck and trailer carries approximately 30 tonnes of logs.
- A log ship contains approximately 30-35,000 tonnes of logs.
- By weight, the ratio of oxygen to carbon in carbon dioxide is 1-2.66.
- One unit mass of Nitrous oxide (N<sub>2</sub>O) has 298 times the Global Warming Potential of a unit of Carbon dioxide (CO<sub>2</sub>) over 100 years. Methane (CH<sub>4</sub>) has 25 times the GWP of Carbon dioxide.

### Abbreviations

AAU	Assigned Amount Unit
CCC	He Pou a Rangi Climate Change Commission
CER	Certified Emissions Reduction
ERU	Emissions Reduction Unit
FAO	Food & Agriculture Organization of the United Nations
FFA	New Zealand Farm Forestry Association
FGLT	Forest Growers Levy Trust
FICA	Forest Industry Contractors Association
FIEA	Forest Industry Engineering Association
FISC	Forest Industry Safety Council
FOA	New Zealand Forest Owners Association
FSC	Forest Stewardship Council
MfE	Ministry for the Environment
MPI	Ministry for Primary Industries
NEFD	National Exotic Forest Description
NZIER	New Zealand Institute of Economic Research
NZU	NZ Units
OIO	Overseas Investment Office
PEFC	Programme for the Endorsement of Forest Certification
SOPI	Situation and Outlook for Primary Industries
Stats NZ	Statistics New Zealand
WPMA	Wood Processors and Manufacturers Association

### Facts & Figures organisation sites

<b>Competenz</b>	<a href="http://www.competenz.org.nz">www.competenz.org.nz</a>
<b>FAO</b>	<a href="http://www.fao.org/forestry">www.fao.org/forestry</a>
<b>FFA</b>	<a href="http://www.nzffa.org.nz">www.nzffa.org.nz</a>
<b>FGLT</b>	<a href="http://www.fgl.org.nz">www.fgl.org.nz</a>
<b>FIEA</b>	<a href="http://www.fiea.org.nz">www.fiea.org.nz</a>
<b>FISC</b>	<a href="http://www.safetree.nz">www.safetree.nz</a>
<b>FSC</b>	<a href="http://www.nz.fsc.org/en-nz">www.nz.fsc.org/en-nz</a>
<b>MfE</b>	<a href="http://www.mfe.govt.nz">www.mfe.govt.nz</a>
<b>MPI</b>	<a href="http://www.mpi.govt.nz">www.mpi.govt.nz</a>
<b>NZIER</b>	<a href="http://www.nzier.org.nz">www.nzier.org.nz</a>
<b>NZFOA</b>	<a href="http://www.nzfoa.org.nz">www.nzfoa.org.nz</a>
<b>PEFC</b>	<a href="http://www.pefc.org">www.pefc.org</a>
<b>Rare Species</b>	<a href="http://www.rarespecies.nzfoa.org.nz">www.rarespecies.nzfoa.org.nz</a>
<b>Scion</b>	<a href="http://www.scionresearch.com">www.scionresearch.com</a>
<b>Statistics NZ</b>	<a href="http://www.stats.govt.nz">www.stats.govt.nz</a>
<b>WPMA</b>	<a href="http://www.wpma.org.nz">www.wpma.org.nz</a>
<b>WorkSafe NZ</b>	<a href="http://www.business.govt.nz/worksafe">www.business.govt.nz/worksafe</a>



# Contacts

## Board and Committee Chairs of Forest Owners Association

**Grant Dodson**  
President  
Chair Research & Development Committee  
Tel: 03 467 7730  
Mobile: 027 654 6554  
Email: grant.dodson@cityforests.co.nz

**Tim Sandall**  
Vice President  
Chair Transportation & Logistics Committee  
Tel: 06 947 5049 ext 7049  
Mobile: 021 241 4900  
Email: tim.sandall@panpac.co.nz

**Steve Chandler**  
Chair Training & Careers Committee  
Mobile: 027 605 0926  
Email: steve.chandler@tasmanpine.co.nz

**Bert Hughes**  
Tel: 06 370 6361  
Mobile: 027 441 0535  
Email: BHughes@foresterenterprises.co.nz

**Sean McBride**  
Chair Fire Committee  
Tel: 06 370 6400  
Mobile: 027 499 2931  
Email: sean.mcbride@jnl.co.nz

**Marcus Musson**  
Chair Promotions Committee  
Tel: 0274 921 081  
Email: marcus@forest360.nz

**Brendan Slui**  
Mobile: 027 485 7912  
Email: brendan.slui@rayonier.com

**Rowan Struthers**  
Mobile: 0274 712789  
Email: rowan.struthers@cfgcnz.com

**Phil Taylor**  
Tel: 03 365 2846  
Mobile: 027 487 6890  
Email: ptaylor@portblakely.com

**Matthew Wakelin**  
Tel: 027 588 448  
Email: mwakelin@newforests.co.nz

## By Appointment

**Chris Barnes**  
Tel: +64 7 571 7917  
Mobile: +64 27 2577 260  
Email: christopher\_barnes@manulife.com

**Dean Witehira**  
Tel: +64 7 343 1072  
Mobile: +64 274 664 128  
Email: dean.witehira@tll.co.nz

## FOA Staff

**David Rhodes**  
Chief Executive  
Tel: 04 913 8702  
Mobile: 027 495 5525  
Email: david.rhodes@nzfoa.org.nz

**Glen Mackie**  
Technical Manager  
Tel: 04 595 4545  
Mobile: 027 445 0116  
Email: glen.mackie@nzfoa.org.nz

**Don Carson**  
Communications Manager  
Tel: 04 595 4542  
Mobile: 027 537 9488  
Email: don.carson@nzfoa.org.nz

**Paul Adams**  
Research Manager  
Tel: 07 9217238  
Mobile: 027 530 4051  
Email: paul.adams@nzfoa.org.nz

**Amanda Brake**  
Office Manager, Rotorua  
Tel: 07 921 7246  
Email: amanda.brake@fgr.nz

**Rosemary McFadyen**  
Office Manager  
Tel: 04 473 4769  
Email: rosemary.mcfadyen@nzfoa.org.nz

**Jeff Drinkwater**  
Senior Accountant  
Tel: 045 954 546  
Email: jeff.drinkwater@nzfoa.org.nz

**Brendan Gould**  
Biosecurity Manager  
Tel: 04 595 4548  
Mobile: 027 364 1577  
Email: brendan.gould@nzfoa.org.nz

**Rachel Millar**  
Environment Manager  
Mobile: 027 300 1413  
Email: rachel.millar@nzfoa.org.nz

## Forest Growers Levy Trust

**Stephen Franks**  
Chair  
Mobile: 027 492 1983  
Email: stephen.franks@franksogilvie.co.nz

## NZ Timber Industry Federation

**Kevin Hing**  
Director  
Mobile: 04 473 5200  
Email: kevin.h@nztif.co.nz

## NZ Wood Processors & Manufacturers Association

**Stephen Mcaulay**  
Chief Executive  
Tel: 04 473 9220  
Email: stephen@wpma.org.nz

## Wood Councils

**Northland Wood Council**  
**Ursula Buckingham**  
Mobile: 027 499 8416  
Email: ubuckingham@hnrg.com

**Central South Island Wood Council**  
**Colin Maunder**  
Mobile: 027 466 4132  
Email: colin.maunder@tll.co.nz

**Eastland Wood Council**  
**Philip Hope**  
CEO  
Mobile 021 959 450  
Email: philip@eastlandwood.co.nz

**Hawkes Bay Forestry Group**  
**Keith Dolman**  
Mobile: 022 093 4557  
Email: kdolman@novapsi.net.nz

**Southern North Island / Canterbury/West Coast Wood Council (Inc)**  
**Erica Kinder**  
Mobile: 027 329 0498  
Email: sniwoodcouncil@gmail.com

**Top of the South Island Wood Council**  
**Angela Mckenzie**  
Mobile: 021 634 359  
Email: eo@totswoodcouncil.org.nz

**Southern Wood Council**  
**Brent Apthorp**  
Mobile: 021 227 5177  
Email: brent.apthorp@fiea.org.nz

## Forest Industry Safety Council

**Joe Akari**  
CEO/National Safety Director  
Mobile: 021 0888 9240  
Email: joe.akari@fisc.org.nz

## New Zealand Farm Forestry Association

**Graham West**  
President  
Mobile: 027 441 0353  
Email: westlanduse@gmail.com

## New Zealand Institute of Forestry

**James Treadwell**  
President  
Mobile: 022 043 4511  
Email: president@nzif.org.nz

## NZ Forest Industry Engineering Association

**Brent Apthorp**  
Director  
Tel: 03 470 1902  
Mobile: 021 227 5177  
Email: brent.apthorp@fiea.org.nz

## NZ Forest Industry Contractors Association

**Ross Davis**  
President  
Tel: 07 865 9001  
Mobile: 027 493 8460  
Email: sarah.davis@xtra.co.nz

**Prue Younger**  
CEO  
Mobile: 021 276 5484  
Email: office@fica.org.nz

## Bioenergy Association of NZ

**Brian Cox**  
Executive Officer  
Mobile: 027 477 1048  
Email: brian.cox@bioenergy.org.nz

# Log Pricing Data

**Log Type, Pricing, and Market**

Log Type, Pricing, and Market	Dec-14 Quarter	Mar-15 Quarter	Jun-15 Quarter	Sep-15 Quarter	Dec-15 Quarter	Mar-16 Quarter	Jun-16 Quarter	Sep-16 Quarter	Dec-16 Quarter	Mar-17 Quarter	Jun-17 Quarter	Sep-17 Quarter	Dec-17 Quarter	Mar-18 Quarter	Jun-18 Quarter	Sep-18 Quarter	Dec-18 Quarter	Mar-19 Quarter	Jun-19 Quarter	Sep-19 Quarter	Dec-19 Quarter	Mar-20 Quarter	Jun-20 Quarter	Sep-20 Quarter	Dec-20 Quarter	Mar-21 Quarter	Jun-21 Quarter	Sep-21 Quarter	Dec-21 Quarter
-------------------------------	----------------	----------------	----------------	----------------	----------------	----------------	----------------	----------------	----------------	----------------	----------------	----------------	----------------	----------------	----------------	----------------	----------------	----------------	----------------	----------------	----------------	----------------	----------------	----------------	----------------	----------------	----------------	----------------	----------------

**EXPORT (NZ\$ per JAS m<sup>3</sup> f.o.b)**

Pruned	165 - 236	186 - 199	121 - 199	189 - 211	121 - 228	220 - 230	204 - 236	184 - 207	180 - 225	185 - 214	152 - 213	177 - 217	184 - 222	176 - 222	175 - 234	153 - 236	166 - 228	169 - 237	182 - 221	133 - 195	164 - 211	138 - 187	135 - 216	167 - 197	151 - 286	170 - 223	198 - 269	132 - 247	128 - 235
A Grade	127 - 169	134 - 150	81 - 133	90 - 133	81 - 141	119 - 166	146 - 169	138 - 162	141 - 173	150 - 180	145 - 182	151 - 180	144 - 168	147 - 172	154 - 175	145 - 172	150 - 172	158 - 183	151 - 172	121 - 141	144 - 156	120 - 146	111 - 161	125 - 141	135 - 156	150 - 178	172 - 196	134 - 180	112 - 135
J Grade	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
K Grade	117 - 163	124 - 143	99 - 126	91 - 125	91 - 135	99 - 158	136 - 162	124 - 157	135 - 167	142 - 174	134 - 177	142 - 174	137 - 158	132 - 165	141 - 168	133 - 158	138 - 162	146 - 176	143 - 160	109 - 137	132 - 149	112 - 138	98 - 149	111 - 133	126 - 145	141 - 166	162 - 189	127 - 173	102 - 128
Pulp	112 - 135	117 - 121	65 - 107	73 - 110	65 - 118	55 - 138	120 - 143	111 - 134	125 - 140	126 - 149	125 - 153	123 - 166	117 - 148	122 - 150	130 - 151	119 - 152	127 - 154	135 - 159	129 - 144	98 - 117	116 - 130	74 - 122	91 - 133	102 - 118	102 - 131	128 - 151	133 - 178	118 - 156	88 - 115
<b>Average</b>	<b>153</b>	<b>147</b>	<b>116</b>	<b>128</b>	<b>123</b>	<b>148</b>	<b>165</b>	<b>152</b>	<b>161</b>	<b>165</b>	<b>166</b>	<b>169</b>	<b>159</b>	<b>166</b>	<b>166</b>	<b>164</b>	<b>167</b>	<b>176</b>	<b>166</b>	<b>136</b>	<b>150</b>	<b>134</b>	<b>151</b>	<b>148</b>	<b>152</b>	<b>164</b>	<b>182</b>	<b>164</b>	<b>129</b>

**DOMESTIC (NZ\$ per tonne delivered at mill)**

P1	134 - 154	139 - 164	135 - 170	135 - 174	135 - 174	140 - 187	142 - 195	140 - 193	142 - 186	151 - 189	155 - 191	157 - 193	157 - 195	149 - 199	150 - 197	160 - 195	164 - 200	168 - 196	166 - 196	163 - 197	158 - 198	160 - 194	165 - 199	164 - 194	165 - 192	165 - 194	165 - 200	165 - 200	165 - 201	
P2	121 - 130	116 - 136	116 - 133	116 - 133	105 - 170	129 - 182	134 - 188	130 - 192	102 - 189	125 - 142	115 - 189	120 - 190	120 - 190	97 - 191	126 - 194	143 - 195	128 - 195	132 - 194	125 - 195	114 - 191	128 - 191	129 - 192	149 - 194	115 - 197	125 - 198	130 - 197	128 - 187	150 - 202	145 - 199	
S1	98 - 108	108 - 112	100 - 109	100 - 108	96 - 109	102 - 118	104 - 123	105 - 123	105 - 126	114 - 127	115 - 136	116 - 143	116 - 152	124 - 159	122 - 151	122 - 148	122 - 148	122 - 148	122 - 152	122 - 143	122 - 137	118 - 147	127 - 137	126 - 148	131 - 136	132 - 140	136 - 145	124 - 154	137 - 148	
S2	98 - 109	96 - 109	85 - 109	85 - 105	85 - 109	90 - 115	90 - 118	80 - 116	93 - 120	83 - 124	117 - 130	116 - 135	120 - 144	115 - 141	120 - 141	123 - 143	120 - 143	122 - 144	110 - 147	115 - 142	120 - 132	117 - 132	110 - 130	117 - 125	117 - 135	117 - 134	126 - 147	113 - 148	99 - 139	
L1 and L2	85 - 103	97 - 139	78 - 95	78 - 94	78 - 109	79 - 130	71 - 132	74 - 130	82 - 138	81 - 126	83 - 145	80 - 130	71 - 143	89 - 137	82 - 137	84 - 141	90 - 141	84 - 141	71 - 144	63 - 118	91 - 118	71 - 121	82 - 124	83 - 120	84 - 121	83 - 126	86 - 136	86 - 171	86 - 137	
S3 and L3	86 - 100	88 - 100	69 - 96	76 - 90	69 - 96	68 - 106	82 - 119	69 - 107	71 - 112	71 - 116	71 - 120	94 - 138	83 - 134	109 - 136	109 - 129	88 - 130	111 - 133	104 - 132	96 - 135	84 - 124	88 - 113	82 - 117	100 - 139	93 - 112	102 - 119	99 - 120	97 - 132	72 - 142	72 - 124	
Run of bush	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pulp	49 - 54	50 - 55	31 - 54	31 - 55	31 - 55	31 - 59	44 - 59	31 - 61	40 - 52	40 - 61	31 - 56	31 - 59	30 - 59	31 - 60	31 - 66	31 - 77	32 - 68	50 - 79	32 - 64	31 - 61	30 - 60	31 - 75	31 - 79	31 - 60	31 - 75	28 - 65	31 - 77	31 - 79	31 - 80	
<b>Average</b>	<b>102</b>	<b>108</b>	<b>99</b>	<b>99</b>	<b>102</b>	<b>110</b>	<b>114</b>	<b>111</b>	<b>111</b>	<b>111</b>	<b>126</b>	<b>136</b>	<b>134</b>	<b>134</b>	<b>135</b>	<b>133</b>	<b>135</b>	<b>136</b>	<b>136</b>	<b>127</b>	<b>125</b>	<b>126</b>	<b>129</b>	<b>124</b>	<b>127</b>	<b>131</b>	<b>135</b>	<b>139</b>	<b>133</b>	

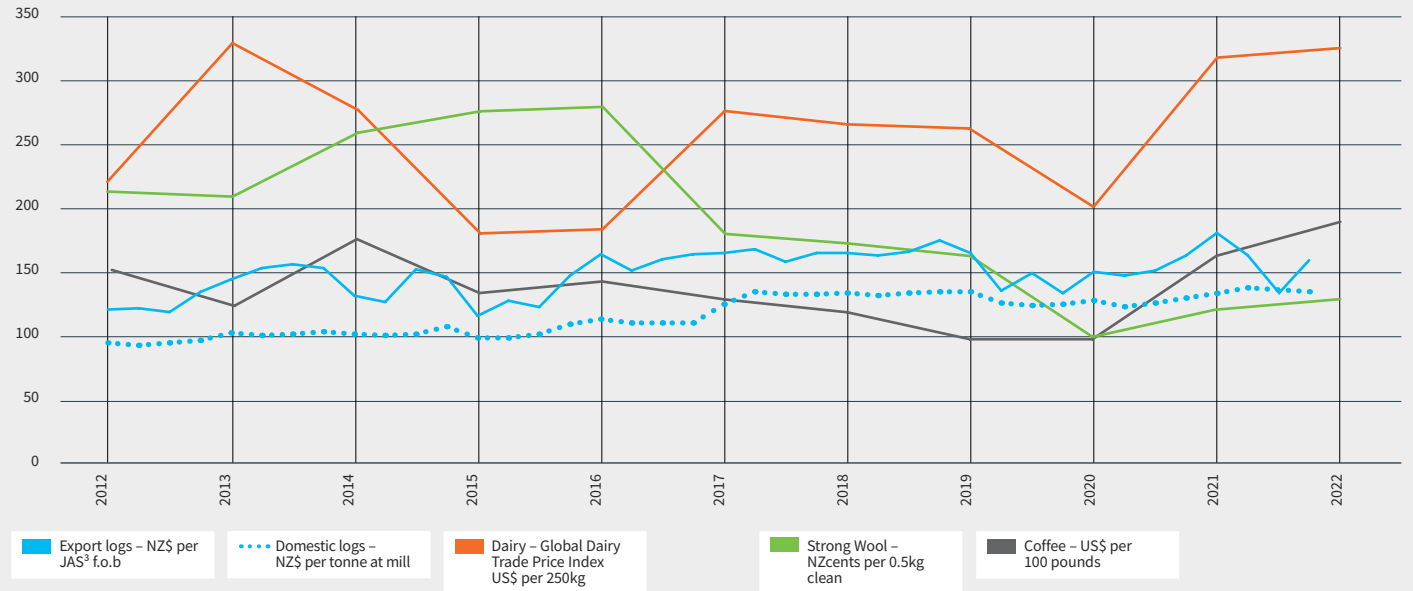
**Notes**  
<sup>1</sup> Weighted averages have been used from June 2017. Please take care when comparing with previous quarters.  
 \* Limited response - very small volume traded.  
 - Data not available.

**Source** Log Pricing Data MPI  
**Source** Forest, Dairy, Wool and Coffee Prices GDT Price Index (<https://www.globaldairytrade.info/en/product-results/>), International Coffee Organisation (<https://www.macrotrands.net/2535/coffee-prices-historical-chart-data>), MPI, Westpac Economic Bulletin 2020, <https://www.interest.co.nz/Charts/Rural/wool-prices2>

**Disclaimer**  
 Every effort has been made to ensure that the statistics and information found within this publication are accurate and fair. The Forest Owners Association provides no warranty as to accuracy and shall not be liable to any person for any loss or damage for the use, directly or indirectly, of the information.  
 Electronic updates of this edition of Facts and Figures can be found at: [www.nzfoa.org.nz/resources/publications/facts-and-figures](http://www.nzfoa.org.nz/resources/publications/facts-and-figures)

## Forest, Dairy, Wool and Coffee Prices

For Year at June



# Grow a career in forestry

Toi Ohomai has world class facilities where you can get training in preparation for your career in this valuable and growing industry. We offer unique and specialised training and education in forest production and wood processing.

We have our own forest harvesting crew and excellent arrangements with woodlot owners where training is carried out on a live site in a safe environment without the pressures of harvest production. Preparing students in this environment, with leading foresters as their trainers, means they're ready for the real world when they graduate.

Find out more at [toiohoma.ac.nz/study/subject/forestry](http://toiohoma.ac.nz/study/subject/forestry)

## TOI-OHOMAI

Institute of Technology

Apply  
now

Learn by doing > 0800 86 46 46



WITH THE COMPLIMENTS OF:



Ministry for Primary Industries  
Manatū Ahu Matua



supported by  
**forestgrowers**  
commodity levy



Further copies of this publication can be ordered from  
the New Zealand Forest Owners Association Inc  
Level 9, 93 The Terrace, PO Box 10986, Wellington 6143

Tel: +64 4 473 4769  
Email: [nzfoa@nzfoa.org.nz](mailto:nzfoa@nzfoa.org.nz)  
or order on-line at: [www.nzfoa.org.nz](http://www.nzfoa.org.nz)

**Ministry for Primary Industries**  
Sector Data & Analysis, Sector Policy  
PO Box 2526, Wellington 6140  
Tel: +64 4 894 0100  
Website: [www.mpi.govt.nz](http://www.mpi.govt.nz), Email: [stats\\_info@mpi.govt.nz](mailto:stats_info@mpi.govt.nz)