





MINISTRY OF AGRICULTURE AND FORESTRY >>> 2011

NATIONAL EXOTIC FOREST DESCRIPTION

AS AT 1 APRIL 2011



Ministry of Agriculture and Forestry Te Manatū Ahuwhenua, Ngāherehere

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ENQUIRIES

Further copies can be obtained from www.maf.govt.nz. For more information see page 66 for contacts.

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INTRODUCTION

This is the 28th edition of the *National Exotic Forest Description* (NEFD). The report provides a detailed description of New Zealand's planted production forests as at 1 April 2011. It represents the net stocked area of the planted production forest estate; that is, all exotic forests planted with the primary intention of producing wood or wood fibre.

New Zealand's planted production forest description is published annually to assist with resource policy planning and development. It provides data for government policy advice, to meet a range of international reporting obligations and to assist with infrastructure planning decisions. The information is also a useful starting point for investigating wood processing opportunities in New Zealand.

The report provides:

- an overview of New Zealand's planted production forests;
- a description of survey methods, sources of information and details on the reliability of the data;
- statistical tables that describe New Zealand's planted production forest area in detail;
- forest activity data such as planting and harvesting statistics.

Much of the report's content consists of detailed tables that show the planted production forest area by age class and territorial authority. This information is provided for key species. For radiata pine, the area by age class tables are also provided by silviculture regime. Collecting and publishing NEFD information is overseen by the NEFD Steering Committee – a forest industry committee with members nominated by the New Zealand Forest Owners Association and the Ministry of Agriculture and Forestry (see Appendix 4, page 63).

Each year the NEFD area dataset is compiled from a survey of forest owners and consultants who own or manage planted production forests. The yield tables are produced periodically based on data provided by forest owners and managers of larger forests.

An electronic copy of this report is available on the Ministry of Agriculture and Forestry's website (www.maf.govt.nz). The tables from this report can be downloaded as Microsoft Excel files.

Please note this is a technical report aimed at those who have a working knowledge of New Zealand's planted production forests and who work in forestry-related industries, government agencies and research institutes in New Zealand. For further clarification of the content of this report, please email stats_info@maf.govt.nz.

OVERVIEW

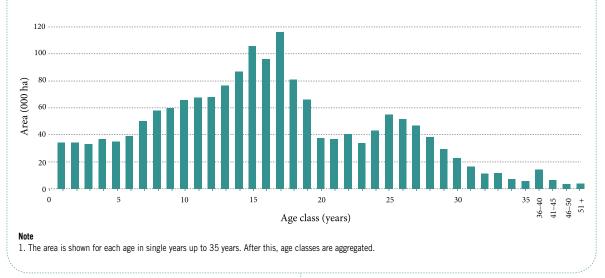
New Zealand's net stocked planted production forests covered an estimated 1.72 million hectares as at 1 April 2011.

The total planted forest standing volume is estimated to be 480 million cubic metres with an average forest stand age (area weighted) of 16.3 years.

Table 2.1 (page 3) provides key national forestry statistics as at 1 April 2011 and compares these with statistics for 2010.

The net stocked area is 18 600 hectares lower than as at 1 April 2010. Over half of this difference can be attributed to harvested areas handed back to land owners. These areas awaited either restocking or a land use decision on 1 April 2011. The remainder of the reduction in net stocked area is a result of re-mapping of forest areas while a small area was recorded as deforested. Of the total forest area, 70 percent is in the North Island and 30 percent is in the South Island. The Central North Island wood supply region makes up 30 percent of the entire planted production forest estate. See figures 8.1 and 8.2 (pages 18–19) in this report for the location of New Zealand's planted forests as identified in the New Zealand Land Use Map 1990-2008 (LUM v003).

Figure 2.1 shows the age structure of the New Zealand planted forest estate. Very little of the forest area is planted in trees older than 32 years, a reflection of the rotation age of the dominant species, radiata pine. Radiata pine is typically harvested between 26 and 32 years old. The figure shows that the areas of forest planted in the mid-1980s have now reached harvest age. Also, the large areas of forest planted between 1992 and 1998, now 13 to 19 years old, are very apparent. These areas are expected to begin reaching harvest age from around 2018.



>>> FIGURE 2.1: TOTAL ESTIMATED PLANTED PRODUCTION FOREST AREA BY AGE CLASS, AS AT 1 APRIL 2011¹

>>> TABLE 2.1: NATIONAL EXOTIC FOREST ESTATE STATISTICS

AREA AND STANDING VOLUME STATISTICS	AS AT 1 APRIL 2010 ¹	AS AT 1 APRIL 2011
FOREST AREA		
Net stocked area (ha)	1 738 000	1 719 400
Harvested area awaiting replanting (ha) ²	55 300	54 300
Total forest area	1 793 300	1 773 700

Note: The decrease of total forest area between 1 April 2010 and 1 April 2011 should not be taken as a measure of deforestation.

GROWTH CHARACTERISTICS		
Standing volume (000 m ³)	467 063	479 709
Average standing volume (m ³ /ha)	269	279
Area-weighted average age (years)	15.9	16.3
AREA BY SPECIES ³		
Radiata pine (ha)	1 556 000	1 545 000
Douglas-fir (ha)	110 000	107 000
Cypress species (ha)	10 000	10 000
Other softwoods (ha)	25 000	24 000
Eucalypt species (ha)	24 000	22 000
Other hardwoods (ha)	13 000	13 000
RADIATA PINE AREA BY TENDING REGIME		
Pruned with production thinning (ha)	217 000	210 000
Pruned without production thinning (ha)	708 000	700 000
Unpruned with production thinning (ha)	37 000	35 000
Unpruned without production thinning (ha)	593 000	599 000

PLANTING STATISTICS	YEAR ENDED 31 DECEMBER 2009	YEAR ENDED 31 DECEMBER 2010
NEW PLANTING ⁴		
Total estimated new planting (ha) ⁵	4 300	6 000
Replanting (ha)	32 500	35 2006

HARVESTING STATISTICS ⁷	YEAR ENDED 31 MARCH 2010	YEAR ENDED 31 MARCH 2011
Area clear felled – all species (ha)	43 500	43 300 ⁶
Area clear felled – radiata pine (ha)	39 200	39 800 ⁶
Volume clear felled – all species (000 m ³)	20 588	21 7256
Volume production thinned – all species (000 m ³)	146	2016
Total volume removed – all species (000 m ³) ⁸	20 734	21 926 ⁶
Average clear fell yield – all species (m³/ha)	473	505 ⁶
	40.400	a a 10 a (
Volume clear felled – radiata pine (000 m³)	19 192	20 493 ⁶
Average clear fell yield – radiata pine (m³/ha)	489	5156
Area-weighted average clear fell age for radiata pine (years)	28.4	28.6

Notes

1. Source: National Exotic Forest Description as at 1 April 2010, Ministry of Agriculture and Forestry, 2011.

2. 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.

3. Individual entries may not add to totals due to rounding.

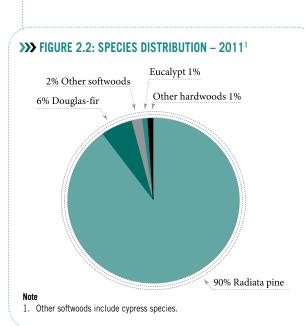
4. The forestry statistics released in this report, and in particular, new planting estimates, may differ from those produced in the Agricultural Production Survey by Statistics New Zealand. These surveys use different survey frames and designs.

5. The method used to estimate new planting is described on page 7 of this report.

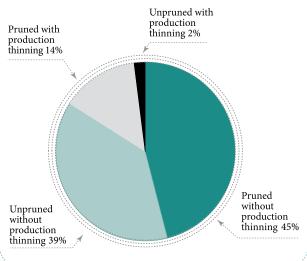
6. The 2011 survey only sought data from owners with 1000 hectares of forest or more. These estimates have been rated up based on the 2010 NEFD survey results for owners with less than 1000 hectares of forest.

7. All volumes are reported as recovered volumes inside bark.

8. These estimates are based on data collected in the 2010 and 2011 NEFD surveys and may differ from the roundwood removals estimate as published in the Annual log and roundwood removal statistics, Ministry of Agriculture and Forestry. This is due to the estimate from that source being an indirect estimate that uses conversion factors for each forestry product to estimate the total roundwood input that would be required to produce total forest product outputs.







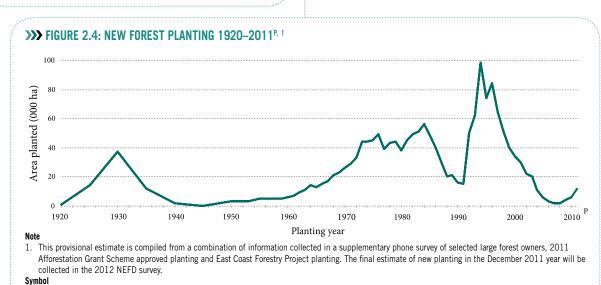
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SPECIES AND SILVICULTURE

As seen in Figure 2.2, radiata pine is the dominant species, making up 90 percent of the planted production forest area. Douglas-fir is the next most common species, making up 6 percent. The remainder of the area is planted in cypress species, eucalypt species, other softwood species and other hardwood species.

Figure 2.3 indicates that about 59 percent (910 000 hectares) of the radiata pine planted forest estate is, or is expected to be, pruned to a height of at least four metres. Approximately 16 percent (146 000 hectares) of pruned radiata pine is older than 25 years, while 15 percent (142 000 hectares) of pruned radiata pine is between 21 and 25 years old. About 69 percent (622 000 hectares) of the pruned radiata pine is 20 years old or under.

The area of production thinned forest has declined. Approximately 16 percent of the radiata pine planted forest currently is, or is expected to be, production thinned. In 1995, 28 percent of the radiata pine forests was, or was intended to be, production thinned. In the



Central North Island region production thinning of the radiata pine resource has decreased from 50 percent in 1995 to 24 percent in 2011.

Information collected in the 2011 survey indicates that 56 percent of the forest resource is first-rotation forest, 40 percent is second or subsequent rotation, while information is incomplete for 4 percent of the estate. Of the identified first-rotation forest, 36 percent is aged 15 years or under.

PLANTING

An estimated 6000 hectares of new forest were established in 2010. It is also provisionally estimated that 12 000 hectares of new forest were established during 2011. The increase between 2010 and 2011 is largely attributable to the Emissions Trading Scheme and an encouraging outlook for wood demand, particularly from Asia.

Figure 2.4 shows new forest planting levels since 1920. The average new planting rate over the last 30 years has been 34 000 hectares per year. In the period 1992 to 1998, new planting rates were high – averaging 69 000 hectares per year. Between 1998 and 2009 new planting declined to very low levels. However, since 2009, new planting rates have recorded small annual increases.

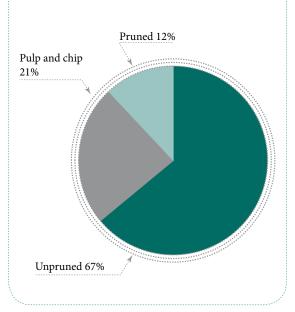
HARVESTING

An estimated harvesting volume of

21.7 million cubic metres¹ for the year ended March 2011 came from clear felling 43 300 hectares of planted forest, and 0.2 million cubic metres from production thinning.

Of the radiata pine harvest, approximately 12 percent of the volume was sold as pruned logs, 67 percent as unpruned logs and 21 percent as pulp and chip logs. An estimated 35 200 hectares of previously clear felled planted forest were replanted in year ended December 2010.

These estimates are based on data collected in the 2011 NEFD survey and may differ from the roundwood removals estimate as published in the *Annual log and roundwood removal statistics*, Ministry of Agriculture and Forestry. This is due to the estimate from that source being an indirect estimate that uses conversion factors for each forestry product to estimate the total roundwood input that would be required to produce total forest product outputs.



>>> FIGURE 2.5: RADIATA PINE HARVEST VOLUME BY LOG TYPE, YEAR ENDED 31 MARCH 2011

DATA COLLECTION AND ESTIMATION

In 2011, NEFD questionnaires were sent to all known forest owners and managers with at least 1000 hectares of planted production forest. The questionnaire used is shown in Appendix 2. Approximately 119 questionnaires were mailed out. A response rate of 100 percent was achieved.

For those owners with less than 1000 hectares of forest, information supplied in the 2010 survey was re-used in the 2011 dataset if it was available. This means that any area that has been harvested since an owner last supplied data will not be captured and recorded, possibly leading to a small overstatement of area in the older age classes. Conversely, any areas replanted after harvesting since their last survey return will be understated in the 2011 NEFD dataset.

In addition to the data collected in the NEFD surveys, the results from the 2004 AgriQuality (now AsureQuality) Small Forest Grower Surveys continue to be used in the 2011 NEFD dataset. Details on the methods used by AgriQuality are available in the *Small Forest Grower Survey Report* (AgriQuality NZ, 2005).

The forestry figures released in the *National Exotic Forest Description*, and in particular, new planting estimates, differ from those produced from the Agricultural Production Survey collected by Statistics New Zealand.

CALENDAR YEAR OF Planting	TOTAL NEW PLANTING ¹ (HA)	NEW PLANTING Collected in Postal Surveys ² (HA)	NEW PLANTING Adjustments ³ (HA)
1992	50 200	30 900	19 300
1993	61 600	40 400	21 200
1994	98 200	68 400	29 800
1995	73 900	56 200	17 700
1996	83 600	64 600	19 000
1997	63 700	45 600	18 100
1998	51 200	36 300	14 900
1999	40 000	23 700	16 300
2000	33 600	24 700	8 900
2001	30 100	17 100	13 000
2002	22 100	14 300	7 800
2003	19 900	11 800	8 100
2004	10 600	6 200	4 400
2005	6 000	2 900	3 100
2006	2 600	1 500	1 100
2007	2 400	2 400	-
2008	1 900	1 900	-
2009	4 300	4 300	-
2010	6 000	6 000	-

>>>> TABLE 3.1: COMPARISON OF TOTAL NEW PLANTING WITH NEW PLANTING COLLECTED IN POSTAL SURVEYS

Notes

1. As estimated from the planting and nursery surveys undertaken by the Ministry of Agriculture and Forestry.

2. The area of new planting as collected in postal surveys. This does not include the area of restocking.

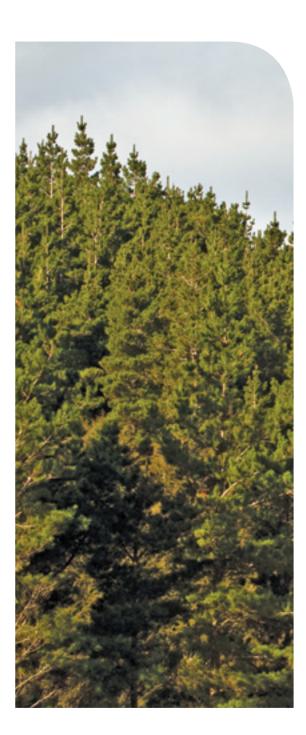
3. The difference between total new planting and new planting collected in postal surveys.

These surveys use different survey frames and survey designs and have different survey objectives. The target population for the 2011 NEFD survey was all known forest owners and managers with at least 1000 hectares of planted production forest. The target population for the 2011 Agricultural Production Survey was all businesses engaged in "agricultural production activity" (including livestock, cropping, horticulture, and forestry) or owned land that was intended for agricultural activity. Detailed information on the population frame for the 2011 Agricultural Production Survey is available on the Statistics New Zealand website².

The forest areas released in the National Exotic Forest Description may also differ from those produced in the New Zealand Land Use Map 1990-2008 (LUM v003). 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.

NEW PLANTING IMPUTATION

For the calendar years 1992 to 2006 additional new planting areas not directly captured in the NEFD surveys were estimated (imputed) based on the annual nursery survey. The methodology used to estimate this "missing" new planting is described in Appendix 3. No additional new planting has been added since the 2006 calendar year because of the low levels of new forest planting that have taken place in these years. Table 3.1 shows the comparisons of the new planting figures collected in the postal surveys to the total new planting figures.



2 http://www.stats.govt.nz/browse_for_stats/industry_sectors/agriculturehorticulture-forestry/agriculturalproduction_hotpjun10prov.aspx

DATA DESCRIPTION

AREA DATA

The base unit for collecting and recording area data is the crop type. Up to ten crop types are recognised for each territorial authority, made up of four tending regimes for radiata pine, two tending regimes for Douglas-fir, and one each for cypress species, eucalypt species, other softwoods and other hardwoods. For definitions of crop type and tending regime, see Appendix 1.

The area data in the NEFD dataset is organised as a net stocked area for each age by crop type, and is labelled with a crop type code and a yield table code.

The area data is rounded to the nearest hectare and is recorded for ages one to 80 years.

The crop type code defines the territorial authority, the species group and the tending regime. The crop type is referenced to a specific table in the yield table data through the yield table code. This cross-reference is used to prepare composite datasets to calculate estimates of standing volumes and for providing input data for national and regional wood availability forecasts.

YIELD TABLES

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 standing volume, total recoverable volume and 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.

PLANTING AND HARVESTING DATA

Data has been collected on the area of restocking, new planting and land cover before the establishment of forests. In addition, the NEFD survey collects data on harvesting, which includes the area clear felled, the volume clear felled and the volume from production thinning for each year ended 31 March (see Table 2.1). The survey also collects data on the volume of clear felled radiata pine by generalised log types (pruned logs, unpruned logs and pulp/chip logs).

OTHER ATTRIBUTES

The NEFD dataset includes information on forest ownership, classified as:

- registered public company;
- · privately owned;
- state-owned enterprise;
- local government body;
- central government;
- other forms of ownership.

Each year, the NEFD Steering Committee considers the inclusion of any other relevant attributes before requesting data from forest owners.

NEW ZEALAND LAND USE MAP

The location of New Zealand's planted forests as identified in New Zealand Land Use Map 1990-2008 (LUM v003) is shown in Figures 8.1 and 8.2 in this report. Land Use Mapping is based on interpretation of satellite imagery and aerial photography. Further details about the New Zealand Land Use Map 1990-2008 (LUM v003) are available on the Ministry for the Environment website³.

The Ministry for the Environment manages the New Zealand Land Use Map 1990-2008 (LUM v003).

RELIABILITY OF DATA

There are different levels of reliability associated with the net stocked area from each component of New Zealand's forest estate.

RELIABILITY OF DATA FROM LARGE-SCALE FOREST OWNERS

Large-scale forest owners (those with 1000 hectares or more) own 70 percent of the national forest estate. There are approximately 100 forest owners with more than 1000 hectares of forest.

Forest description data from large-scale owners is captured from an annual census. 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 less than 1000 hectares made up 30 percent of the total forest area in 2011. There are approximately 1820 forest owners with between 40 hectares and 999 hectares of forest.

The quality of the data provided by owners with less than 1000 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.

Data provided by owners with less than 1000 hectares 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 MAF and in

DATA SOURCE	NET STOCKED AREA (000 HA)	PROPORTION OF Total Area (%)	NUMBER OF OWNERS AT NATIONAL LEVEL
DATA COLLECTED IN THE NEFD SURVEY			
NEFD survey 10 000ha+	988	57	25
NEFD survey 1000–9999ha	209	12	72
NEFD survey 40–999ha	253	15	1 821
NEFD survey total ¹	1 450	84	1 918
New planting imputation (1992–2006) ²	203	12	
2004 AgriQuality small forest growers (<40ha) ³	67	4	
Total ⁴	1 719	100	

>>> TABLE 5.1: TOTAL AREA REPRESENTED BY EACH DATA SOURCE IN THE 2011 NEFD DATABASE

Notes

1 Data collected from 2011 NEFD survey only.

2 Adjustment made to the area of new forest planted between 1992 and 2006. New planting imputation is discussed on page 7 of this report.

3 Small Forest Grower Survey Report, AgriQuality New Zealand, April 2005.

4 Individual entries may not add to totals due to rounding.

Symbol

. Not available.

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. MAF adopts procedures to detect and minimise non-sampling error, but these errors may still occur and are not easy to quantify.

Table 5.1 shows total area represented from the2011 NEFD survey and other NEFD data sources.

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 SURVEYS

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

- Numeric data was limited to certain maximum and minimum values for each entry.
- Aggregated area data was checked at the territorial authority level against the 2010 NEFD area dataset to ensure variation was within acceptable limits.
- For each owner, the data provided in the 2011 survey was compared with data provided by that owner in the previous surveys.

It is possible that some owners included in the dataset may change their management objectives. For instance, an area that is reported as intended to be pruned may not end up being pruned.

YIELD TABLES

The yield tables contained in the NEFD yield table dataset were produced during 1995/96, principally from data provided in 1995 by owners of 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 *NEFD Regional Yield Tables as at 1 April 1995*.

An updated set of NEFD yield tables was produced as part of the new regional wood availability forecasts. Wood availability forecasts were completed in all regions and updated yield tables were released in 2010. Prior to importing the updated yield tables into the NEFD database, analysis on the impact of the updated yield tables on standing volume time series needs to be undertaken. The standing volume figures in this report continue to be calculated using the yield tables compiled in 1995.

PLANTING AND HARVESTING ESTIMATES

NEW PLANTING AND REPLANTING ESTIMATES

The 2010 calendar year estimate of total planting is 41 200 hectares. This is made up of 6000 hectares of new planting and 35 200 hectares of replanting. The replanting estimate is based on data collected from forest owners in the 2011 NEFD survey. The new planting estimate is compiled from the NEFD survey, Afforestation Grant Scheme and East Coast Forestry Project.

Approximately 54 300 hectares of previously harvested forest awaited replanting as at 1 April 2011. It is provisionally estimated that 12 000 hectares of new planting occurred during the 2011 calendar year.

Table 6.1 shows in percentage terms the predominant land cover prior to planting since 1993.

The estimates of land cover prior to new planting are based solely on the new planting information collected in postal surveys (see Table 3.1). In some instances, postal survey respondents who had undertaken new planting did not state the land cover type prior to planting. While the sample size used to derive the proportions of land cover type prior to new planting is considered to be adequate, the estimates are biased towards the practices of the larger forest owners who are fully represented in the NEFD surveys.

For definitions of these land cover types, refer to Appendix 1.

HARVESTING DATA

The 2011 NEFD survey estimated that the total volume

CALENDAR YEARS	IMPROVED Pasture (%)	UNIMPROVED Pasture (%)	OTHER WOODY LAND (%)	AREA OF NEW Planting (HA)
1993	28	56	16	61 600
1994	49	35	16	98 200
1995	67	22	11	73 900
1996	36	50	14	83 600
1997	43	46	11	63 700
1998	44	47	9	51 200
1999	56	30	14	40 000
2000	52	31	17	33 600
2001	68	9	23	30 100
2002	31	49	20	22 100
2003	28	46	26	19 900
2004	18	46	36	10 600
2005	2	19	79	6 000
2006	2	35	63	2 600
2007	11	9	80	2 400
2008	57	2	41	1 900
2009	27	58	15	4 300
2010	64	29	6	6 000

>>> TABLE 6.1: LAND COVER PRIOR TO NEW PLANTING¹

Note

1. 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.

harvested for the year ended 31 March 2011 was 21.9 million cubic metres. It is estimated that 21.7 million cubic metres came from clear felling 43 300 hectares of planted forest (down 200 hectares from 2010), and 0.2 million cubic metres from production thinning.

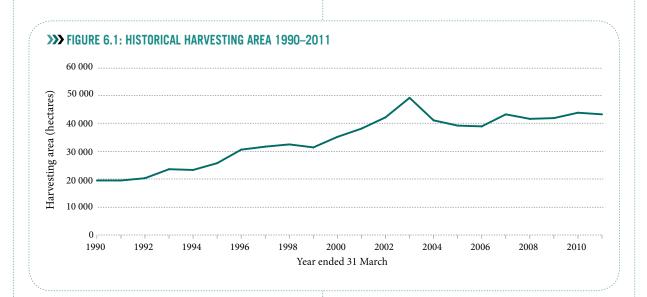
The total volume of radiata pine harvested in the year ended 31 March 2011 was 20.5 million cubic metres, from clear felling 39 800 hectares of forest. The area-weighted average clear fell age of radiata pine has increased slightly to 28.6 years in the year ended 31 March 2011. Since 2000, the national area-weighted average clear fell age for radiata pine has increased 1.8 years from 26.8 years. Figure 6.1 and 6.2 show the harvesting area and volume since 1990.

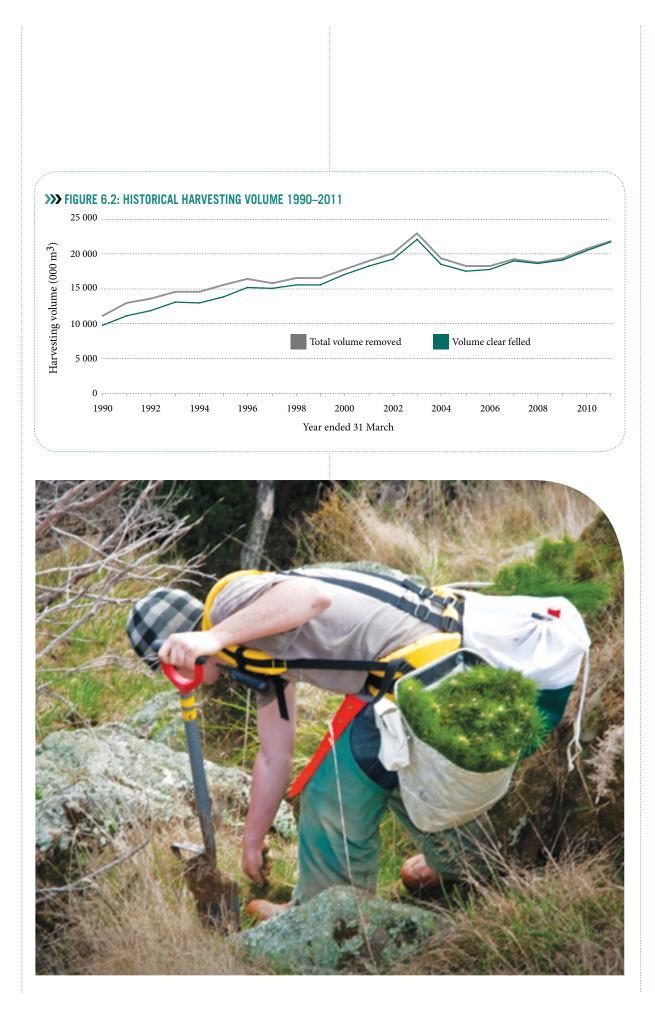
WOOD AVAILABILITY FORECASTS

Wood availability forecasts for all regions and New Zealand are available on the MAF website⁴.

4 http://www.maf.govt.nz/news-resources/publications.aspx

These latest regional forecasts incorporated the harvesting intentions of major forest owners in each region at the time the forecasts were prepared.





WOOD SUPPLY REGIONS AND TERRITORIAL AUTHORITIES

This report is based on 72 district and city councils in New Zealand. The councils are grouped to form 10 wood supply regions of broadly similar growth patterns for radiata pine, representing wood supply and processing catchments. The wood supply regions are: Northland, Auckland, Central North Island, East Coast, Hawke's Bay, Southern North Island, Nelson and Marlborough, Canterbury, West Coast, and Otago and Southland. The Auckland Council, established in November 2010, will be reflected in the 1 April 2012 report. The Auckland Council combines the functions of the Auckland Regional Council and seven city and district councils. This change necessitated an adjustment to the Wood Supply Regions (WSR) which will be reflected in the 1 April 2012 report.

The Auckland WSR is to be disestablished. The Auckland Council area will form part of the Northland WSR, while the remainder of the Auckland WSR will form part of the Central North Island WSR.

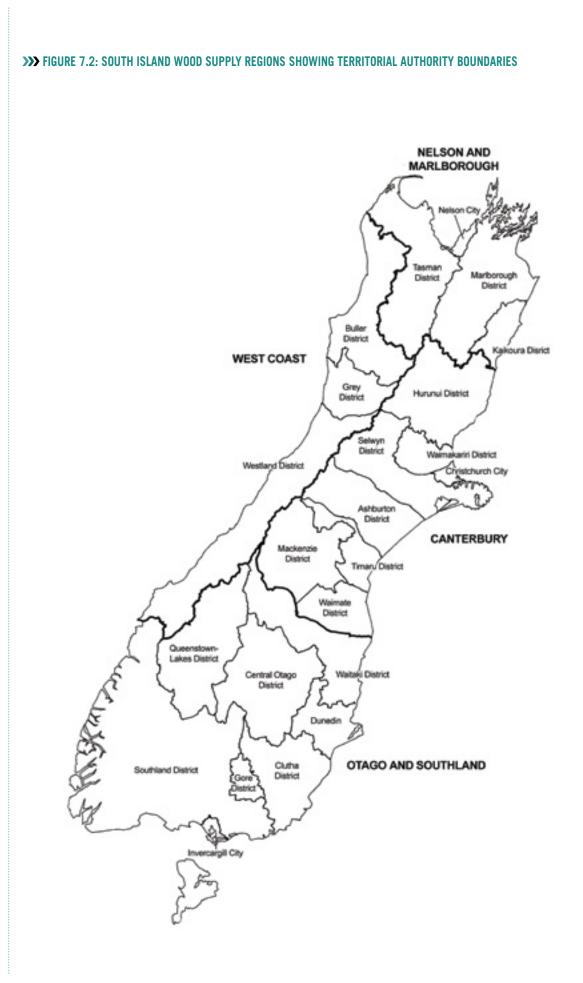
OOD SUPPLY REGIONS	TERRITORIAL AUTHORITIES
RTH ISLAND	
lorthland	Far North District Whangarei District Kaipara District
	Rodney District
uckland ¹	North Shore City
	Auckland City Waitakere City Manukau City Papakura District Thames–Coromandel District Hauraki District Franklin District Waikato District Matamata–Piako District
entral North Island	Hamilton City Waipa District Otorohanga District Waitomo District Ruapehu District South Waikato District Taupo District Tauranga District Western Bay of Plenty District Rotorua District Kawerau District Whakatane District Opotiki District

>>> TABLE 7.1: WOOD SUPPLY REGIONS AND CONSTITUENT TERRITORIAL AUTHORITIES

DOD SUPPLY REGIONS	TERRITORIAL AUTHORITIES
st Coast	Gisborne District
wke's Bay	Wairoa District Hastings District Napier City Central Hawke's Bay District
uthern North Island	New Plymouth District
	Stratford District South Taranaki District Wanganui District
	Rangitikei District Manawatu District Palmerston North City
	Tararua District Masterton District Horowhenua District
	Carterton District South Wairarapa District Kapiti Coast District
	Upper Hutt City Porirua City Wellington City Lower Hutt City
'H ISLAND	Lower Hutt Only
son and Marlborough	Nelson City Tasman District Marlborough District Kaikoura District
st Coast	Buller District Grey District
terbury	Westland District Hurunui District Waimakariri District Christchurch City Selwyn District Ashburton District
	Timaru District Mackenzie District Waimate District
go and Southland	Waitaki District Dunedin City Queenstown-Lakes District Central Otago District Clutha District
	Gore District Southland District Invercargill City

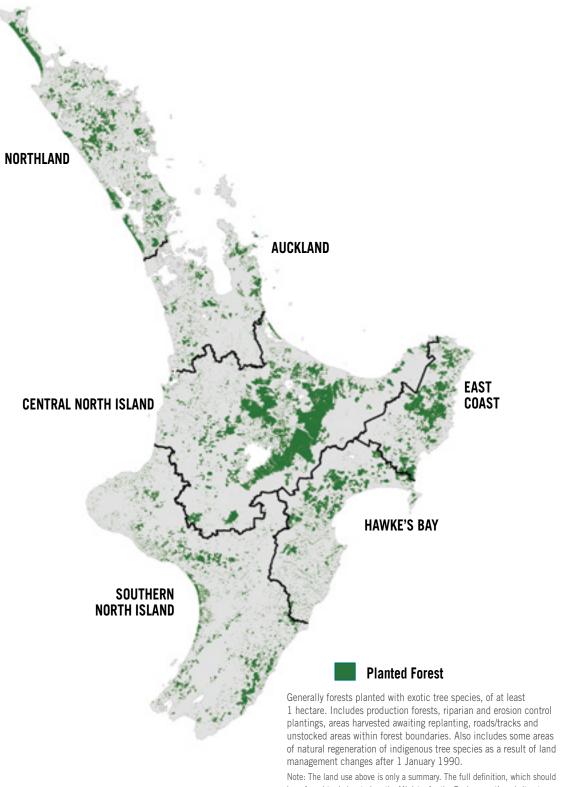






FOREST

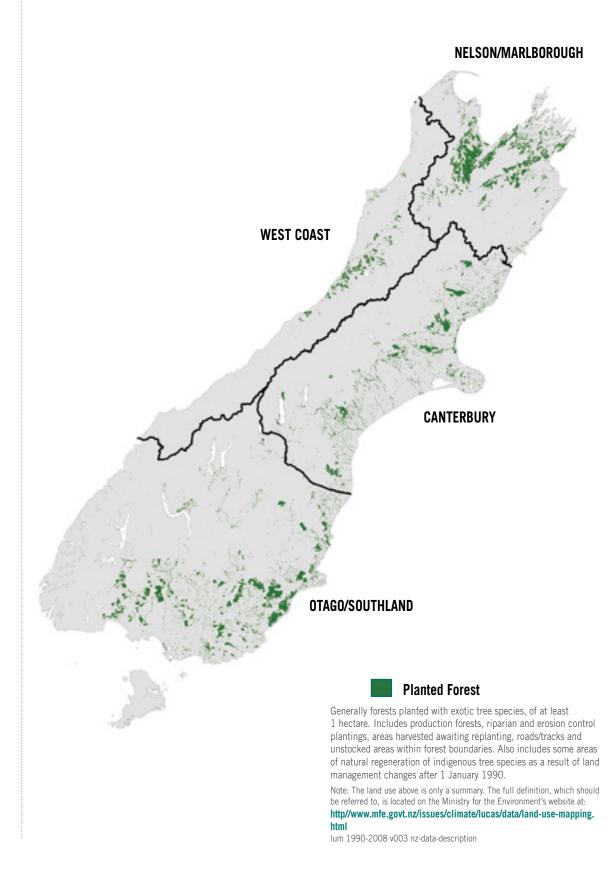
>>>> FIGURE 8.1: DISTRIBUTION OF PLANTED FORESTS BY WOOD SUPPLY REGION – NORTH ISLAND, 2008



be referred to, is located on the Ministry for the Environment's website at: http://www.mfe.govt.nz/issues/climate/lucas/data/land-use-mapping. html

lum 1990-2008 v003 nz-data-description

>>> FIGURE 8.2: DISTRIBUTION OF PLANTED FORESTS BY WOOD SUPPLY REGION – SOUTH ISLAND, 2008



TABULAR SUMMARIES AND GRAPHS

>>> PLANTING, OWNERSHIP, NUMBER OF FOREST OWNERS AND STANDING VOLUME

>>> TABLE 9.1: NEW LAND PLANTED IN PRODUCTION FOREST IN NEW ZEALAND¹

YEAR ENDED 31 DECEMBER	NEW LAND Planted (000 ha)	YEAR ENDED 31 DECEMBER	NEW LAND Planted (000 ha)	YEAR ENDED 31 December	NEW LAND Planted (000 ha)
1920	1	1966	15	1989	21
1925	14	1967	17	1990	16
1930	37	1968	21	1991	15
1935	12	1969	23	1992	50
1940	2	1970	26	1993	62
1945	0	1971	29	1994	98
1950	3	1972	33	1995	74
1951	3	1973	44	1996	84
1952	3	1974	44	1997	64
1953	3	1975	45	1998	51
1954	4	1976	49	1999	40
1955	5	1977	39	2000	34
1956	5	1978	43	2001	30
1957	5	1979	44	2002	22
1958	5	1980	38	2003	20
1959	5	1981	45	2004	11
1960	6	1982	49	2005	6
1961	7	1983	51	2006	3
1962	9	1984	56	2007	2
1963	11	1985	48	2008	2
1964	14	1986	40	2009	4
1965	13	1987	30	2010 ²	6 ^F
		1988	20	2011 ³	12 ^p

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 of Forestry and the Ministry of Agriculture and Forestry. **Notes**

1 Prior to 1950, only five-year average annual estimates are available. The areas of new planted forests have been estimated independently from total planted forest areas shown in Table 9.2.

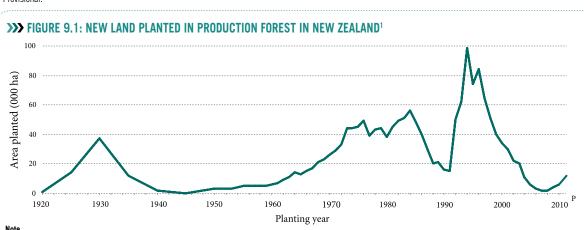
2. This estimate is compiled from new planting reported in the 2010 NEFD survey, 2010 Afforestation Grant Scheme approved planting (2600 hectares) and East Coast Forestry Project planting (900 hectares). In a separate survey – the 2010 Nursery Survey – it was estimated that 6000 hectares of new planting occurred in the year ended December 2010. The new planting estimate released in the *National Exotic Forest Description* may differ from those produced in the Agricultural Production Survey by Statistics New Zealand. These surveys use different survey frames and designs.

3. This provisional estimate is compiled from a combination of information collected in a supplementary phone survey of selected large forest owners, 2011 Afforestation Grant Scheme approved planting (3200 hectares) and East Coast Forestry Project approved planting (2500 hectares).

Symbols

F Finalised.

P Provisional.



NOTE

P Provisional.

 This provisional estimate is compiled from a combination of information collected in a supplementary phone survey of selected large forest owners, 2011 Afforestation Grant Scheme approved planting and East Coast Forestry Project planting. The final estimate of new planting in the December 2011 year will be collected in the 2012 NEFD survey.
 Symbol

	I	PLANTED FOREST ARI	EA	PLANTED FOREST AR		REA	
YEAR ENDED 31 March	STATE ² (000 HA)	PRIVATE ³ (000 HA)	TOTAL (000 ha)	YEAR ENDED 31 March	STATE ² (000 HA)	PRIVATE ³ (000 HA)	TOTAL (000 HA)
1921	16	61	77	1979	449	350	799
1926	32	66	98	1980	467	379	846
1931	124	123	247	1981	484	404	888
1936	170	147	317	1982	505	434	939
1941	179	150	329	1983	526	467	993
1946	183	149	332	1984	546	499	1 045
1951	187	151	338	1985	566	529	1 095
1952	189	151	340	1986	583	548	1 1 3 1
1953	190	151	341	1987	598	556	1 154
1954	191	151	342	1988	588	626	1 214
1955	192	152	344	1989	607	633	1 240
1956	192	154	346	1990	607	654	1 261
1957	193	155	348	1991	361	928	1 289
1958	194	156	350	1992	356	952	1 308
1959	195	157	352	1993	262	1 066	1 328
1960	195	157	352	1994	267	1 121	1 388
1961	199	159	358	1995	334	1 144	1 478
1962	213	149	362	1996	330	1 212	1 542
1963	220	152	372	1997	169	1 461	1 630
1964	228	156	384	1998	169	1 510	1 679
1965	235	160	395	1999	161	1 570	1 731
1966	241	163	404	2000	151	1 618	1 769
1967	247	167	414	2001	151	1 648	1 799
1968	257	172	429	2002	148	1 666	1 814
1969	270	177	447	2003	146	1 681	1 827
1970	283	182	465	2004	143	1 679	1 822
1971	294	189	483	2005	135	1 676	1 811
1972	306	202	508	2006	125	1 675	1 800
1973	323	215	538	2007	125	1 665	1 790
1974	343	234	577	2008	127	1 634	1 761
1975	362	254	616	2009	128	1 623	1 751
1976	385	272	657	2010	123	1 615	1 738
1977	406	299	705	2011	119	1 600	1 719
1978	425	324	749				

TABLE 9.2: PLANTED PRODUCTION FOREST AREA IN NEW ZEALAND¹

Sources

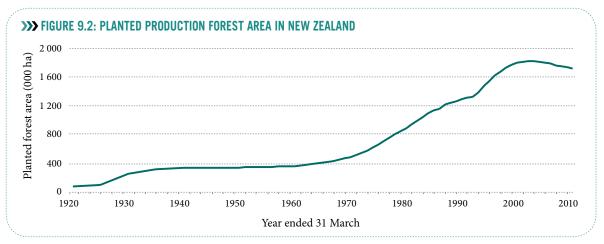
Until 1987, the statistics were compiled by the New Zealand Forest Service. The figures for 1987 onwards are estimates from NEFD surveys.

Notes

1. The total planted forest areas have been estimated independently from new planted forest areas. The areas in this table are not the accumulated sums of new forest planting shown in Table 9.1.

2. Prior to 1987, "State" refers principally to the forests planted or managed by the New Zealand Forest Service. Since 1987, "State" refers primarily to the forests owned or managed by state-owned enterprises and the Māori lease forests managed by the Ministry of Agriculture and Forestry.

3. Private afforestation figures are based on incomplete historical data, and considerable estimation has taken place.



>>> TABLE 9.3: FOREST OWNERSHIP AS AT 1 APRIL 2011¹

OWNERSHIP CATEGORY ²	ESTIMATED Total Area ³ (HA)	PERCENT OF Estimated Total
Registered public company ⁴	8 531	0.5
Privately owned ^{4, 5}	1 591 848	93
State-owned enterprise	10 566	1
Local government	46 232	3
Central government ⁶	62 257	4
New Zealand total ⁷	1 719 434	100

Notes

1. The area of forest owned or managed by major forest owners can be found in the New Zealand Forest Industry booklet, Facts & Figures 2010/2011, page 12 (see http://www.nzfoa.org.nz/images/stories/pdfs/fandf2011web.pdf).

2. Ownership is based solely on the ownership of the forest irrespective of the ownership of the land.

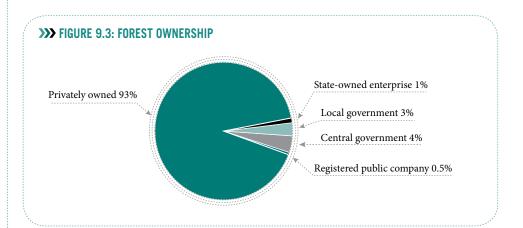
3. Net stocked planted production forest area.

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

5. "Privately owned" includes all privately owned forests. The legal entities included in this category are private companies, partnerships, individuals and trusts, which include Maori trusts and incorporations.

6. "Central government" forests are predominantly Crown-owned forests on Maori leasehold land. These forests are managed by the Ministry of Agriculture and Forestry.

7. Individual entries may not add to total due to rounding.

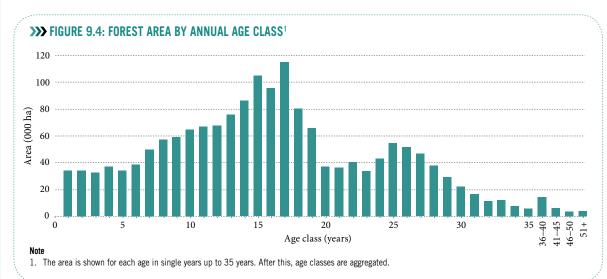


>>> TABLE 9.4: FOREST AREA¹ BY ANNUAL AGE CLASS, AS AT 1 APRIL 2011

AGE	AREA (HA)	AGE	AREA (HA)	AGE	AREA (HA)
1	34 432	29	29 649	57	95
2	34 257	30	22 383	58	111
3	32 770	31	16 290	59	129
4	36 870	32	11 072	60	49
5	34 468	33	11 828	61	379
6	38 972	34	7 503	62	75
7	49 761	35	5 827	63	58
8	57 624	36	5 056	64	45
9	59 297	37	3 225	65	16
10	65 248	38	2 388	66	34
11	67 295	39	2 169	67	72
12	67 584	40	1 468	68	32
13	76 138	41	1 752	69	20
14	86 411	42	1 573	70	24
15	105 264	43	1 231	71	148
16	95 849	44	969	72	45
17	115 552	45	887	73	68
18	80 694	46	949	74	23
19	66 032	47	1 126	75	24
20	37 076	48	498	76	40
21	36 766	49	466	77	38
22	40 484	50	325	78	74
23	33 770	51	668	79	142
24	43 084	52	338	80+	580
25	54 743	53	184		
26	51 539	54	163		
27	46 891	55	88		
28	38 065	56	102	New Zealand total	1 719 434

Note

1. Net stocked planted production forest area.



>>> TABLE 9.5: NUMBER OF FOREST OWNERS BY NATIONAL SIZE CLASS¹, AS AT APRIL 2011

	NATIONAL SIZE CLASS							
WOOD SUPPLY REGION	<40 HA	40–99 HA	100–499 HA	500–999 HA	1 000–9 999 HA	10 000+ HA		
Northland		134	76	10	15	6		
Auckland		40	30	5	9	4		
Central North Island		85	69	9	16	11		
East Coast		56	50	6	16	9		
Hawke's Bay		68	40	4	7	10		
Southern North Island		234	169	15	15	6		
Nelson and Marlborough		198	115	12	11	4		
West Coast		8	5	1	1	1		
Canterbury		84	82	3	12	2		
Otago and Southland		148	90	8	12	7		
New Zealand total ²		1 049	708	64	72	25		

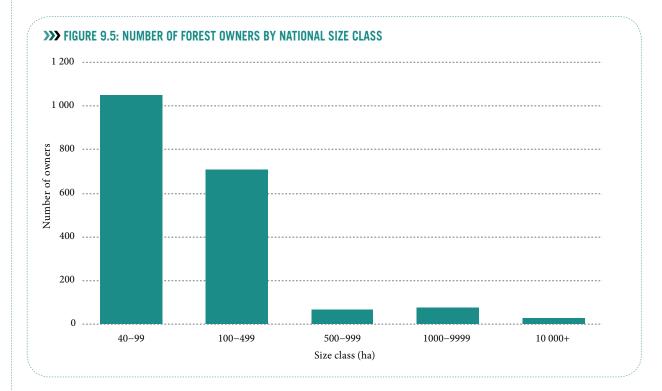
Notes

 This 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.
 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

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 large owners in the 1000–9999 hectare and 10 000+ hectare size class.

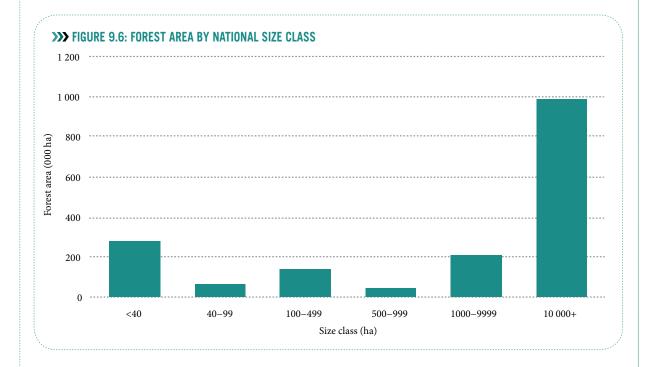
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.. Not available.



	NATIONAL SIZE CLASS								
WOOD SUPPLY REGION	<40 HA	40–99 HA	100-499 HA	500–999 HA	1000–9999 HA	10 000+ HA	TOTAL HA		
Northland	31 716	8 356	13 381	6 241	32 014	97 792	189 500		
Auckland	10 493	2 382	5 311	1 941	14 972	20 346	55 445		
Central North Island	49 868	5 080	14 219	4 824	34 651	404 777	513 419		
East Coast	16 568	3 245	11 374	4 360	35 437	85 422	156 406		
Hawke's Bay	21 591	4 1 1 4	7 984	2 137	9 147	83 171	128 144		
Southern North Island	44 359	14 341	33 357	8 335	25 431	42 875	168 698		
Nelson and Marlborough	24 261	11 960	19 589	8 562	19 056	83 716	167 144		
West Coast	2 740	489	635	617	182	27 922	32 585		
Canterbury	32 573	5 058	14 307	1 554	17 272	32 558	103 322		
Otago and Southland	42 906	9 207	17 196	5 163	21 220	109 079	204 771		
New Zealand total	277 075	64 232	137 353	43 734	209 382	987 658	1 719 434		

>>> TABLE 9.6: FOREST AREA BY FOREST OWNER NATIONAL SIZE CLASS, AS AT 1 APRIL 2011



>>> TABLE 9.7: FOREST AREA' COLLECTED BY POSTAL SURVEY AND ADJUSTMENTS FOR NEW PLANTING, AS AT 1 APRIL 2011

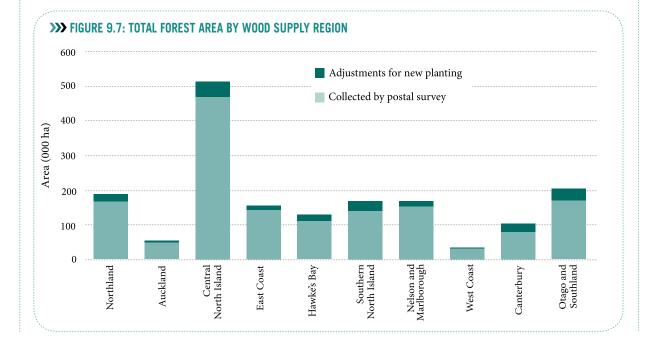
	COLLECTED BY	IMPUTED NEW PLANTING	ESTIMATED
TERRITORIAL AUTHORITY	POSTAL SURVEYS (HA) ²	1992–2006 (HA) ³	TOTAL AREA (HA)
NORTHLAND WOOD SUPPLY REGION Far North District	70 5 4 2	9.097	87 629
Whangarei District	79 542 28 790	8 087 3 704	32 494
Kaipara District	34 124	4 829	38 953
Rodney District Region total	26 252 168 708	4 172 20 792	30 424 189 500
AUCKLAND WOOD SUPPLY REGION			10,000
North Shore City	14	0	14
Waitakere City	7	2	9 0
Auckland City Manukau City	5 084	0 596	5 680
Papakura District	206	0	206
Franklin District Thames-Coromandel District	4 863 21 706	1 475 1 376	6 338 23 082
Hauraki District	2 3 3 0	907	3 237
Waikato District Matamata-Piako District	13 188 1 043	2 294 354	15 482 1 397
Region total	48 441	7 004	55 445
CENTRAL NORTH ISLAND WOOD SUPPLY REGION			
Hamilton City	1	0	1
Waipa District Otorohanga District	1 661 2 718	1 057 2 327	2 718 5 045
South Waikato District	64 676	1 579	66 255
Waitomo District	18 965 164 420	6 759	25 724
Taupo District Tauranga District	164 420 86	6 713 39	171 133 125
Ruapehu District	37 821	8 359	46 180
Western Bay of Plenty District Rotorua District	20 465 45 682	3 089 5 272	23 554 50 954
Kawerau District	31	3	34
Whakatane District Opotiki District	100 854 14 311	4 283 2 248	105 137 16 559
Region total	471 691	41 728	513 419
EAST COAST WOOD SUPPLY REGION			
Gisborne District Region total	141 888 141 888	14 518 14 518	156 406 156 406
HAWKE'S BAY WOOD SUPPLY REGION	141 000	14,510	150 400
Wairoa District	46 762	5 561	52 323
Hastings District	54 584	5 930	60 514
Napier City Central Hawke's Bay District	139 10 792	0 4 376	139 15 168
Region total	112 277	15 867	128 144
SOUTHERN NORTH ISLAND WOOD SUPPLY REGION			
New Plymouth District Stratford District	3 318 5 237	760 1 165	4 078 6 402
South Taranaki District	7 765	2 146	9 911
Wanganui District Rangitikei District	25 920 17 981	3 584 3 593	29 504 21 574
Manawatu District	4 805	2 033	6 838
Palmerston North City	2 003	297	2 300
Horowhenua District Tararua District	5 685 11 747	1 204 2 926	6 889 14 673
Kapiti Coast District	2 941	755	3 696
Upper Hutt City Porirua City	5 758 1 858	646 54	6 404 1 912
Wellington City	445	34 38	483
Lower Hutt City	272	27	299
Masterton District Carterton District	29 573 9 484	3 676 2 686	33 249 12 170
South Wairarapa District	6 124	2 192	8 316
Region total	140 916	27 782	168 698
North Island total	1 083 921	127 691	1 211 612

>>> TABLE 9.7 CONTINUED...

TERRITORIAL AUTHORITY	COLLECTED BY Postal Surveys (HA) ²	IMPUTED NEW PLANTING 1992–2006 (HA) ³	ESTIMATED TOTAL AREA (HA)
		1002 2000 (IIA)	
NELSON AND MARLBOROUGH WOOD SUPPLY REGION	00.004	5 50 6	06.040
Tasman District	80 334	5 706	86 040
Nelson City	8 469	532 9 320	9 001
Marlborough District Kaikoura District	61 462		70 782
Region total	1 113 151 378	208 15 766	1 321 167 144
WEST COAST WOOD SUPPLY REGION			
Buller District	3 312	323	3 635
Grey District	13 941	296	14 237
Westland District	13 645	1 068	14 713
Region total	30 898	1 687	32 585
CANTERBURY WOOD SUPPLY REGION			
Hurunui District	32 428	6 312	38 740
Waimakariri District	8 935	3 118	12 053
Selwyn District	8 267	2 252	10 519
Christchurch City	6 264	3 638	9 902
Ashburton District	2 884	922	3 806
Mackenzie District	3 765	1 158	4 923
Timaru District	9 343	2 521	11 864
Waimate District	7 519	3 996	11 515
Region total	79 405	23 917	103 322
OTAGO AND SOUTHLAND WOOD SUPPLY REGION	14.410	2 00 4	10.202
Waitaki District	14 419	3 884	18 303
Queenstown-Lakes District	627	130	757
Central Otago District	5 520	1 771	7 291 14 211
Dunedin City Clutha District	12 837 69 536	1 374	
Southland District	69 536 65 128	11 741	81 277 77 998
Gore District	2 436	12 870 1 810	4 246
Invercargill City	2 430 589	99	4 240 688
Region total	171 092	33 679	204 771
South Island total	432 773	75 049	507 822
New Zealand total	1 516 694	202 740	1 719 434

Notes

Net stocked planted production forest area.
 Comprises the combined results from the 2011 NEFD survey and a small forest grower survey conducted by AgriQuality New Zealand.
 Adjustments made to the area of new forest planted between 1992 and 2006. New planting imputation is discussed on page 7.



>>> TABLE 9.8: AREA¹, STANDING VOLUME AND AREA-WEIGHTED AVERAGE AGE BY TERRITORIAL AUTHORITY, AS AT 1 APRIL 2011

NOTADE WOD SUPPLY REGOV 87 623 32 901 18.50 Far North District 32 244 13 192 18.47 Kaipara District 38 953 15 162 17.99 Rochary District 30 243 69 518 17.89 Rochary District 30 243 69 518 17.89 North Shore City 14 6 56.79 Mattaker City 9 3 23.88 Ackland WD Supply EdeW 0 0 0.000 Manukau City 5 640 125 27.73 Franklin District 23.082 61 51 15.38 Hauraki District 15 482 30 55 14.07 Matamate Pikabo District 15 482 30 55 14.07 Matamate Pikabo District 15 482 30 55 14.07 Matamate Pikabo District 27.73 Frastrict 15.71 Chrank WRT REGOV 1 1 1 29.00 Walpa District 27.73 88.61 16.60 Ottro Austrict 27.7	TERRITORIAL AUTHORITY	AREA (HA)	STANDING Volume (000 M ³)	AREA-WEIGHTED Average Age (years)
North Shore City 14 6 6.57.9 Waitakere City 0 0 0.00 Manukau City 5.660 1.25 2.73 Franklin District 2.308 1.858 1.940 Inames-Coronandel District 2.3082 6.151 1.538 Hauraki District 3.237 8.31 1.720 Waikato District 1.397 2.94 1.397 Region total 5.5445 1.379 1.571 CHALL WATH SLAW MOD SUPPLY REGOM 1 1 2.900 Maipa District 2.718 8.61 1.6600 Otorohaga District 2.5724 5.883 1.349 Taupo District 2.554 7.231 1.635 Waite District 2.3554 7.231 1.635 Region total 1.56406 51.957	Far North District Whangarei District Kaipara District Rodney District Region total	32 494 38 953 30 424	13 192 15 162 8 263	18.47 17.99 14.18
Hamilton City 1 1 1 29.00 Waipa District 2718 861 16.60 South Waikato District 5045 1464 16.10 South Waikato District 25724 5 883 13.49 Taupo District 171133 54 721 16.57 Taurang District 125 37 15.88 Ruapchu District 23 554 7.231 16.36 Rotorua District 5054 13 651 14.485 Kaverau District 10517 30 340 15.48 Opotiki District 16 559 8 184 21.67 Region total 513 419 156 406 51 957 17.07 Region total 51 406 51 957 17.07 15.02 Hasting District 60 514 13 701 14.76 Region total 128 144 29.67 15.02 Hasting District 15 168 3 960 16.39 Region total 128 144 29.67 15.06 Strict Nowoos S	North Shore City Waitakere City Auckland City Manukau City Papakura District Franklin District Thames-Coromandel District Hauraki District Waikato District Matamata-Piako District	9 0 5 680 206 6 338 23 082 3 237 15 482 1 397	$\begin{array}{c} 3\\ 0\\ 1473\\ 126\\ 1858\\ 6151\\ 831\\ 3055\\ 294 \end{array}$	23.89 0.00 16.46 27.73 19.40 15.38 17.20 14.07 13.97
Gisborne District 156 406 51 957 17.07 Region total 156 406 51 957 17.07 HAWKE'S BAY WODD SUPPLY REGON 52 323 11 961 15.02 Hastings District 60 514 13 701 14.76 Napier City 139 55 21.39 Central Hawke's Bay District 15 168 3 960 16.39 Region total 128 144 29 677 15.06 SOUTHERN NORTH ISLAND WODD SUPPLY REGON 0 0 0 New Plymouth District 4 078 1154 16.26 Stratford District 29 911 3 231 17.23 Wanganui District 29 504 8 333 15.71 Manganui District 20 300 943 18.27 Horowhenua District 20 300 943 18.27 Horowhenua District 3 696 1 4053 18.69 Upper Hutt City 6 402 2 300 943 18.27 Horowhenua District 3 696 1 4053 18.69 16.61 </td <td>Hamilton City Waipa District Otorohanga District South Waikato District Waitomo District Taupo District Tauranga District Ruapehu District Western Bay of Plenty District Rotorua District Kawerau District Whakatane District Opotiki District</td> <td>$\begin{array}{c} 2\ 718\\ 5\ 045\\ 66\ 255\\ 25\ 724\\ 171\ 133\\ 125\\ 46\ 180\\ 23\ 554\\ 50\ 954\\ 34\\ 105\ 137\\ 16\ 559\end{array}$</td> <td>$\begin{array}{c} 861 \\ 1 \ 464 \\ 19 \ 745 \\ 5 \ 883 \\ 54 \ 721 \\ 37 \\ 15 \ 992 \\ 7 \ 231 \\ 13 \ 651 \\ 10 \\ 30 \ 340 \\ 8 \ 184 \end{array}$</td> <td>$16.60 \\ 16.10 \\ 14.65 \\ 13.49 \\ 16.57 \\ 15.88 \\ 17.39 \\ 16.36 \\ 14.85 \\ 12.65 \\ 15.48 \\ 21.67$</td>	Hamilton City Waipa District Otorohanga District South Waikato District Waitomo District Taupo District Tauranga District Ruapehu District Western Bay of Plenty District Rotorua District Kawerau District Whakatane District Opotiki District	$\begin{array}{c} 2\ 718\\ 5\ 045\\ 66\ 255\\ 25\ 724\\ 171\ 133\\ 125\\ 46\ 180\\ 23\ 554\\ 50\ 954\\ 34\\ 105\ 137\\ 16\ 559\end{array}$	$\begin{array}{c} 861 \\ 1 \ 464 \\ 19 \ 745 \\ 5 \ 883 \\ 54 \ 721 \\ 37 \\ 15 \ 992 \\ 7 \ 231 \\ 13 \ 651 \\ 10 \\ 30 \ 340 \\ 8 \ 184 \end{array}$	$16.60 \\ 16.10 \\ 14.65 \\ 13.49 \\ 16.57 \\ 15.88 \\ 17.39 \\ 16.36 \\ 14.85 \\ 12.65 \\ 15.48 \\ 21.67$
Wairoa District52 32311 96115.02Hastings District $60 514$ 13 70114.76Napier City1395521.39Central Hawke's Bay District15 1683 96016.39Region total128 14429 67715.06SOUTHERN NORTH ISLAND WOOD SUPPLY REGIONNew Plymouth District4 0781 15416.26Stratford District6 4022 34319.20South Taranaki District9 9113 23117.23Wanganui District29 5048 33315.71Rangitikei District21 5745 87216.09Manawatu District6 8382 49718.82Palmerston North City2 30094318.27Horowhenua District3 6961 40518.69Upper Hutt City6 4042 66319.37Porirua City1 91297421.97Wellington City2 39915924.65Masterton District33 24911 24617.43Carterton District12 1703 38315.61South Wairarapa District8 3162 53216.87Region total168 69853 35916.96	Gisborne District			
New Plymouth District4 0781 15416.26Stratford District6 4022 34319.20South Taranaki District9 9113 23117.23Wanganui District29 5048 33315.71Rangitikei District21 5745 87216.09Manawatu District6 8382 49718.82Palmerston North City2 30094318.27Horowhenua District6 8892 03016.89Tararua District3 6961 40518.69Upper Hutt City6 4042 66319.37Porirua City1 91297421.97Wellington City48314917.50Lower Hutt City29915924.65Masterton District33 24911 24617.43South Wairarapa District8 3162 53216.87Region total168 69853 35916.96	Wairoa District Hastings District Napier City Central Hawke's Bay District	60 514 139 15 168	13 701 55 3 960	14.76 21.39 16.39
	New Plymouth District Stratford District South Taranaki District Wanganui District Rangitikei District Manawatu District Palmerston North City Horowhenua District Tararua District Kapiti Coast District Upper Hutt City Porirua City Wellington City Lower Hutt City Masterton District Carterton District South Wairarapa District	$\begin{array}{c} 6\ 402\\ 9\ 911\\ 29\ 504\\ 21\ 574\\ 6\ 838\\ 2\ 300\\ 6\ 889\\ 14\ 673\\ 3\ 696\\ 6\ 404\\ 1\ 912\\ 483\\ 299\\ 33\ 249\\ 12\ 170\\ 8\ 316\end{array}$	$\begin{array}{c} 2 \ 343 \\ 3 \ 231 \\ 8 \ 333 \\ 5 \ 872 \\ 2 \ 497 \\ 943 \\ 2 \ 030 \\ 4 \ 445 \\ 1 \ 405 \\ 2 \ 663 \\ 974 \\ 149 \\ 159 \\ 11 \ 246 \\ 3 \ 383 \\ 2 \ 532 \end{array}$	$ 19.20 \\ 17.23 \\ 15.71 \\ 16.09 \\ 18.82 \\ 18.27 \\ 16.89 \\ 16.61 \\ 18.69 \\ 19.37 \\ 21.97 \\ 17.50 \\ 24.65 \\ 17.43 \\ 15.61 \\ 16.87 \\ $

>>> TABLE 9.8 CONTINUED...

		STANDING	AREA-WEIGHTED
TERRITORIAL AUTHORITY	AREA (HA)	VOLUME (000 M ³)	AVERAGE AGE (YEARS)
NELSON AND MARLBOROUGH WOOD SUPPLY REGION			
Tasman District	86 040	17 371	15.05
Nelson City	9 001	1 765	14.06
Marlborough District	70 782	17 046	17.11
Kaikoura District	1 321	337	18.21
Region total	167 144	36 519	15.89
WEST COAST WOOD SUPPLY REGION			
Buller District	3 635	695	16.95
Grey District	14 237	2 791	16.27
Westland District	14 713	1 766	14.06
Region total	32 585	5 252	15.35
CANTERBURY WOOD SUPPLY REGION			
Hurunui District	38 740	7 046	15.89
Waimakariri District	12 053	2 536	17.09
Selwyn District	10 519	2 386	19.26
Christchurch City	9 902	1 653	17.70
Ashburton District	3 806	776	18.46
Mackenzie District	4 923	876	18.73
Timaru District	11 864	1 927	16.63
Waimate District	11 515	1 895	16.70
Region total	103 322	19 095	16.95
OTAGO AND SOUTHLAND WOOD SUPPLY REGION			
Waitaki District	18 303	4 095	15.79
Queenstown-Lakes District	757	299	23.77
Central Otago District	7 291	1 634	18.53
Dunedin City	14 211	4 355	19.70
Clutha District Southland District	81 277	16 085	15.05
Southland District Gore District	77 998 4 246	14 784 910	14.92 15.39
Invercargill City	4 246 688	251	21.78
Region total	204 771	42 413	15.58
South Island total			
	507 822	103 279	15.95
New Zealand total	1 719 434	479 709	16.28

Note
1. Net stocked planted production forest area.



>>> TABLE 9.9: FOREST AREA¹ BY AGE CLASS AND TERRITORIAL AUTHORITY, AS AT 1 APRIL 2011

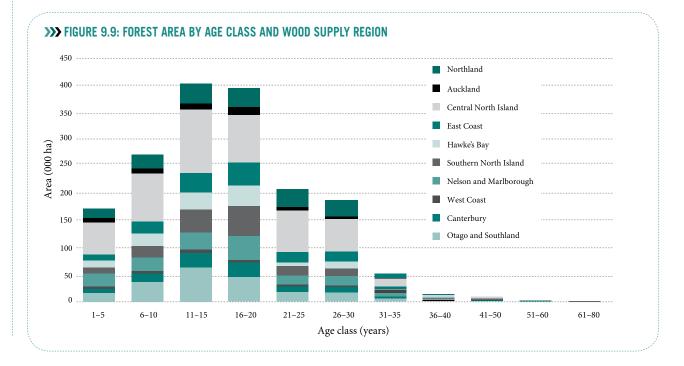
						AGE CLASS	YEARS					
	1–5	6–10	11–15	16–20	21–25	26–30	31–35	36–40	41–50	51-60	61–80	
TERRITORIAL AUTHORITY	YEARS (HA)	YEARS (HA)	YEARS (HA)	YEARS (HA)	YEARS (HA)	YEARS (HA)	YEARS (HA)	YEARS (HA)	YEARS (HA)	YEARS (HA)	YEARS (HA)	TOTAL (HA)
NORTHLAND WOOD SUPPLY REGION												
Far North District	9 588	10 591	12 361	15 351	15 189	17 746	5 577	1 049	128	15	34	87 629
Whangarei District	2 451	3 534	6 1 3 0	6 2 3 1	6 0 1 6	6 835	945	188	140	13	11	32 494
Kaipara District	2 495	3 711	9 120	7 455	10 868	4 580	458	179	54	11	22	38 953
Rodney District	3 870	7 198	8 313	5 934	1 829	1 335	1 435	355	120	15	20	30 424
Region total	18 404	25 034	35 924	34 971	33 902	30 496	8 415	1 771	442	54	87	189 500
AUCKLAND WOOD SUPPLY REGION												
North Shore City	0	0	0	0	6	0	3	1	0	0	4	14
Waitakere City Auckland City	0 0	0 0	1 0	3 0	1	1 0	2 0	1	0 0	0 0	0 0	9 0
Manukau City	285	1 192	1 009	2 072	291	515	81	218	17	0	0	5 680
Papakura District	12	0	4	30	20	29	81	29	0	0	1	206
Franklin District Thames-Coromandel District	149 5 138	422 4 261	1 166 3 115	2 322 3 465	1 357 1 930	610 3 517	118 1 210	69 240	18 66	37 38	70 102	6 338 23 082
Hauraki District	0	4 201 297	924	1 275	498	195	36	240 6	00	0	6	3 237
Waikato District	1 210	2 736	4 743	5 098	1 174	434	62	8	12	4	1	15 482
Matamata-Piako District	385	179	160	420	97	76	73	4	0	0	3	1 397
Region total	7 179	9 087	11 122	14 685	5 374	5 377	1 666	576	113	79	187	55 445
CENTRAL NORTH ISLAND WOOD SUPPLY REGION												
Hamilton City Waipa District	0 5	0 188	0 1 335	0 696	0 143	1 152	0 166	0 27	$0\\4$	0	0 2	1 2 718
Otorohanga District	0	1 268	1 1 1 3 8	1 753	281	372	81	18	132	0	2	5 045
South Waikato District	7 815	13 730	14 566	14 255	11 160	4 3 4 6	196	28	48	1	110	66 255
Waitomo District	4 788	4 311	7 039	6 532	1 078	1 017	242	267	316	130	4	25 724
Taupo District Tauranga District	22 055 0	32 426 13	31 796 50	19 245 39	28 124 17	28 068 6	7 186 0	1 360 0	814 0	16 0	43 0	171 133 125
Ruapehu District	2 181	4 168	17 848	8 1 1 8	5 783	6 085	1 716	47	97	1	136	46 180
Western Bay of Plenty District	2 189	3 101	4 813	6 556	4 876	1 556	293	28	24	С	С	23 554
Rotorua District Kawerau District	7 249 0	11 376 0	11 606 34	7 910 0	7 926 0	2 357 0	1 158 0	793 0	344 0	20 0	215 0	50 954 34
Whakatane District	13 341	16 640	26 291	21 530	13 525	10 188	2 138	890	452	C	C	105 137
Opotiki District	1 022	1 367	1 302	1 021	5 092	5 996	749	10	0	0	0	16 559
Region total	60 645	88 588	117 818	87 655	78 005	60 144	13 925	3 468	2 231	338	602	513 419
EAST COAST WOOD SUPPLY REGION												
Gisborne District	10 104	21 714	36 349	43 808	18 670	19 155	4 062	1 234	1 146	113	51	156 406
Region total	10 104	21 714	36 349	43 808	18 670	19 155	4 062	1 234	1 146	113	51	156 406
HAWKE'S BAY WOOD SUPPLY REGION	6 200	0.712	10.064	15 (22	1 012	6 200	1.2(0)	71	101	12	20	50.000
Wairoa District Hastings District	6 299 6 959	9 712 12 487	10 964 13 304	15 633 17 082	1 813 4 011	6 380 5 091	1 260 1 044	71 381	121 76	42 74	28 5	52 323 60 514
Napier City	0	0	45	29	6	53	1 0 1 1	5	0	0	0	139
Central Hawke's Bay District	553	1 422	5 914	4 752	1 045	806	373	124	69	38	72	15 168
Region total	13 811	23 621	30 227	37 496	6 875	12 330	2 678	581	266	154	105	128 144
SOUTHERN NORTH ISLAND WOOD SUPPLY REGION												
New Plymouth District	176	641	1 146	1 209	515	220	137	30	2	0	2 3	4 078
Stratford District South Taranaki District	352 37	557 1 020	670 2 728	3 186 4 040	333 1 291	814 458	49 270	10 35	230 22	198 5	3 5	6 402 9 911
Wanganui District	2 653	3 880	6 483	10 193	4 188	1 621	261	57	152	0	16	29 504
Rangitikei District	568	2 541	9 1 1 3	5 937	1 513	826	387	359	261	52	17	21 574
Manawatu District Palmerston North City	103 489	819 164	1 008 181	3 010 699	489 70	724 108	534 500	107 89	27 0	4 0	13 0	6 838 2 300
Horowhenua District	768	1 104	656	2 821	519	447	336	90	78	35	31	6 889
Tararua District	409	1 638	5 039	4 970	840	1 054	477	177	52	13	4	14 673
Kapiti Coast District	70 653	372	711	1 292	521	525	188	14	3	0 19	0	3 696
Upper Hutt City Porirua City	653 0	1 009 55	977 34	741 805	972 721	1 214 221	540 13	55 60	200 3	19	24 0	6 404 1 912
Wellington City	0	36	53	308	70	14	2	0	0	0	0	483
Lower Hutt City	0	10	52	50	15	97	61	14	0	0	0	299
Masterton District Carterton District	2 474 962	4 119 1 193	7 363 5 126	10 686 2 316	2 637 1 124	3 990 629	1 178 573	308 127	439 116	37 4	18 0	33 249 12 170
South Wairarapa District	143	1 380	2 432	2 689	775	387	305	127	76	6	1	8 316
Region total	9 857	20 542	43 772	54 952	16 593	13 349	5 811	1 654	1 661	373	134	168 698
North Island total	120 000	188 586	275 212	273 567	159 419	140 851	36 557	9 284	5 859	1 1 1 1 1	1 166	1 211 612
	120 000	100 300	273212	2/3 30/	139 419	140 001	30 337	7 204	5 059	1111	1 100	1 211 012

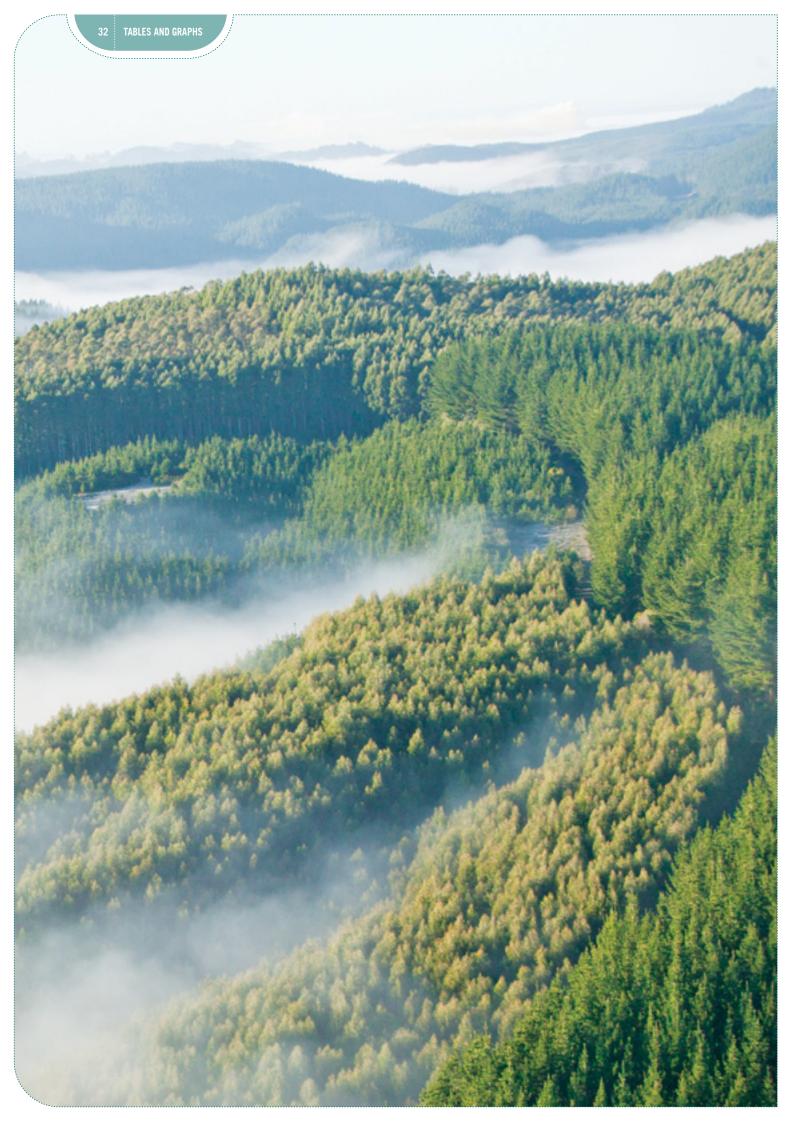
>>> TABLE 9.9 CONTINUED...

	AGE CLASS YEARS											
TERRITORIAL AUTHORITY	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)	61–80 Years (HA)	TOTAL (HA)
NELSON AND MARLBOROUGH WOOD SUPPLY REGION												
Tasman District	14 841	15 073	15 012	20 338	8 746	7 189	3 4 3 8	856	356	77	114	86 040
Nelson City	2 239	1 559	1 349	1 803	630	1 073	175	97	38	36	2	9 001
Marlborough District	6 739	8 280	13 605	20 951	8 898	8 896	2 388	753	215	46	11	70 782
Kaikoura District	9	137	465	439	50	90	65	22	38	6	0	1 321
Region total	23 828	25 049	30 431	43 531	18 324	17 248	6 066	1 728	647	165	127	167 144
WEST COAST WOOD SUPPLY REGION												
Buller District	463	331	958	807	362	474	188	12	16	4	20	3 635
Grey District	2 517	3 002	2 257	2 059	687	2 489	526	193	457	50	0	14 237
Westland District	2 677	2 520	4 357	2 395	980	1 100	418	171	61	6	28	14 713
Region total	5 657	5 853	7 572	5 261	2 0 2 9	4 063	1 132	376	534	60	48	32 585
CANTERBURY WOOD SUPPLY REGION												
Hurunui District	3 427	7 250	10 463	8 0 4 3	4044	3 486	1 185	270	416	54	102	38 740
Waimakariri District	556	1 271	2 974	4 4 5 4	1 821	564	186	124	59	42	2	12 053
Selwyn District	561	902	2 087	2 912	1 969	$1\ 044$	382	408	203	24	27	10 519
Christchurch City	284	927	2 0 9 4	4 618	770	699	338	109	12	4	47	9 902
Ashburton District	306	416	1 004	732	456	445	195	137	39	48	28	3 806
Mackenzie District	320	752	753	1 822	263	315	197	131	258	78	34	4 923
Timaru District	621	2 974	2 528	2 326	1 657	749	534	232	188	13	42	11 864
Waimate District	680	1 000	5 175	1 975	856	1 478	210	40	52	31	18	11 515
Region total	6 755	15 492	27 078	26 882	11 836	8 780	3 227	1 451	1 227	294	300	103 322
OTAGO AND SOUTHLAND WOOD SUPPLY REGION												
Waitaki District	724	3 156	7 413	3 450	1 538	1 330	410	120	113	39	10	18 303
Queenstown-Lakes District	3	27	74	181	201	126	103	6	9	20	7	757
Central Otago District	471	619	2 659	1 639	259	451	386	245	413	44	105	7 291
Dunedin City	1 313	879	1 742	3 528	2 936	2 873	636	158	55	44	47	14 211
Clutha District	8 243	15 426	22 836	18 503	6 188	7 110	1 944	383	449	83	112	81 277
Southland District	5 691	15 638	25 236	17 180	5 916	5 416	1 916	524	409	57	15	77 998
Gore District	104	110	2 340	1 298	118	165	44	8	54	5	0	4 246
Invercargill City	8	67	99	183	83	114	99	23	7	5	0	688
Region total	16 557	35 922	62 399	45 962	17 239	17 585	5 538	1 467	1 509	297	296	204 771
South Island total	52 797	82 316	127 480	121 636	49 428	47 676	15 963	5 022	3 917	816	771	507 822
New Zealand total	172 797	270 902	402 692	395 203	208 847	188 527	52 520	14 306	9 776	1 927	1 937	1 719 434

Note
1. Net stocked planted production forest area.

Symbol C Confidential.



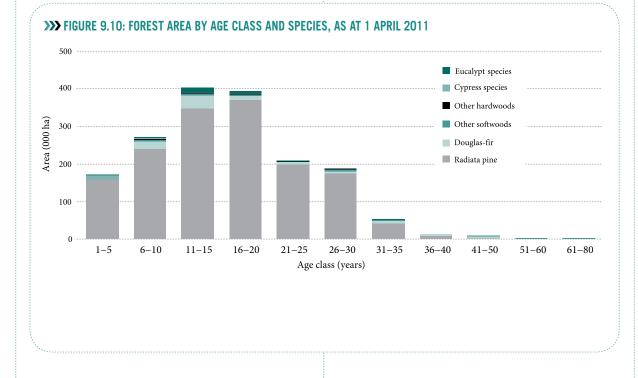


SPECIES

This section presents detailed information for each NEFD species group, showing the forest areas for each territorial authority by five-yearly age classes. Figure 9.10 provides an overview of this by illustrating the species composition by age class.

The following six tables provide information about the net stocked forest area planted in:

- Radiata pine;
- Douglas-fir;
- cypress species;
- other softwoods;
- eucalypt species;
- other hardwoods.



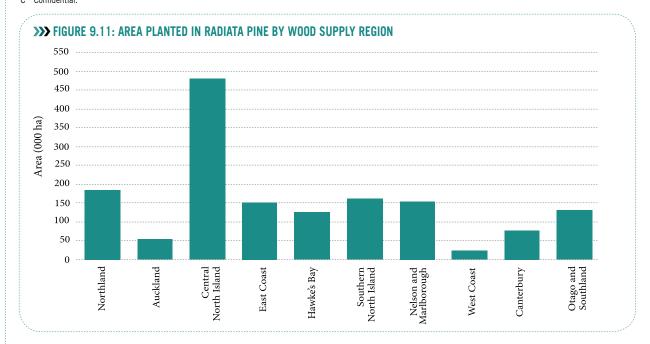
>>> TABLE 9.10: AREA¹ PLANTED IN RADIATA PINE BY TERRITORIAL AUTHORITY, AS AT 1 APRIL 2011

TERRITORIAL AUTHORITY (1 NORTHLAND WOOD SUPPLY REGION Far North District 95	A) (HA)	11–15 YEARS (HA)	16–20 Years (Ha)	21–25 YEARS	26–30 Years	31-35	36–40	41-50	51-60	61-80	
Far North District9 5			(117)	(HA)	(HA)	YEARS (HA)	YEARS (HA)	YEARS (HA)	YEARS (HA)	YEARS (HA)	TOTAL (HA)
Whangarei District2 4Kaipara District2 4Rodney District3 8Region total18 2	513 501103 471327 125	11 574 5 826 8 679 8 037 34 116	15 110 5 969 7 237 5 793 34 109	15 105 5 975 10 807 1 785 33 672	17 513 6 753 4 554 1 306 30 126	5 459 867 450 1 365 8 141	1 029 182 146 335 1 692	96 129 44 112 381	2 2 10 4 18	0 3 4 12 19	85 256 31 658 37 812 29 706 184 432
Papakura District1Franklin District1Thames-Coromandel District5Hauraki District1Waikato District1	0 278 04 2 629 35 169	0 1 0 967 3 1129 3105 890 4703 140 10 938	0 3 0 2 041 30 2 183 3 400 1 268 5 049 401 14 375	6 1 0 267 20 1 322 1 905 498 1 146 95 5 260	0 0 455 29 584 3 301 194 425 74 5 062	3 2 0 77 81 101 1156 36 61 69 1586	1 1 0 192 29 60 226 6 8 4 527	0 0 11 0 4 63 0 12 0 90	0 0 0 33 11 0 4 0 48	0 0 0 0 24 28 0 0 0 0 52	10 8 0 5 361 204 5 990 22 585 3 170 15 241 1 337 53 906
CENTRAL NORTH ISLAND WOOD SUPPLY REGIONHamilton CityWaipa DistrictOtorohanga DistrictSouth Waikato DistrictSouth Waikato DistrictJaupo DistrictTaupo DistrictTaupo DistrictTaupa CityRuapehu DistrictWestern Bay of Plenty DistrictRotorua DistrictKawerau DistrictWhakatane DistrictWhakatane District13 3Opotiki District10Region total57 6	48 4 165 30 851 0 10 73 3 988 12 2 935 07 11 103 0 0 30 16 125 22 1 356	0 809 1 086 14 266 6 834 30 118 28 17 438 4 464 10 272 0 23 668 1 292 110 275	0 660 1 692 14 176 6 263 17 209 38 7 953 6 408 7 510 0 20 286 1 012 83 207	0 139 233 10 671 1 069 27 201 16 5 778 4 831 7 428 0 12 024 5 078 74 468	1 149 348 4 324 991 27 059 5 6 065 1 457 1 971 0 8 752 5 995 57 117	0 157 81 165 185 6 047 0 1 607 272 343 0 1 407 742 11 006	0 27 18 14 8 118 0 21 9 33 0 186 10 444	0 0 28 0 82 0 1 6 42 0 56 0 215	0 0 1 0 12 0 0 0 12 0 33 0 58	0 2 0 77 0 7 0 8 16 0 1 1 0	1 2 083 4 655 64 223 22 863 159 810 97 45 024 22 502 45 937 0 95 868 16 507 479 570
EAST COAST WOOD SUPPLY REGION Gisborne District 96 Region total 96	52 20 789	35 675 35 675	43 326 43 326	18 510 18 510	18 827 18 827	3 779 3 779	1 183 1 183	73 73	23 23	7	151 844 151 844
HAWKE'S BAY WOOD SUPPLY REGIONWairoa District6 2Hastings District6 8Napier City6Central Hawke's Bay District5Region total13 6	27 9 270 23 12 413 0 0 53 1 385	10 834 13 185 45 5 845 29 909	15 595 16 854 23 4 691 37 163	1 791 3 974 6 1 024 6 795	6 344 4 958 49 761 12 112	1 194 996 1 363 2 554	67 345 5 104 521	15 41 0 44 100	4 22 0 11 37	0 2 0 15 17	51 341 59 613 129 14 796 125 879
Stratford District3South Taranaki District2 6Wanganui District2 6Rangitikei District4Manawatu District1Palmerston North City4Horowhenua District7Tararua District4Kapiti Coast District4Upper Hutt City6Porirua City6Wellington City1Lower Hutt City6Masterton District2 4	54 2 214 32 767 39 156 66 1 106 09 1 608 70 362 33 1 000 0 55 0 36 0 10 44 4 031	796 657 2 674 6 394 8 843 945 179 632 4 987 685 962 34 53 50 7 273	$\begin{array}{c} 1 \ 170 \\ 3 \ 124 \\ 3 \ 987 \\ 10 \ 105 \\ 5 \ 819 \\ 2 \ 962 \\ 647 \\ 2 \ 743 \\ 4 \ 948 \\ 1 \ 264 \\ 730 \\ 799 \\ 308 \\ 50 \\ 10 \ 608 \end{array}$	503 329 1 270 4 180 1 448 460 69 493 830 518 948 720 70 13 2 614	212 808 453 1 612 796 670 108 408 785 518 1 098 220 14 97 3 930	$ \begin{array}{r} 135 \\ 49 \\ 268 \\ 235 \\ 359 \\ 529 \\ 500 \\ 306 \\ 462 \\ 187 \\ 538 \\ 13 \\ 2 \\ 61 \\ 1142 \\ 142 \\ 538 \\ 13 \\ 2 61 \\ 1142 \\ 538 \\ 13 \\ 2 61 \\ 1142 \\ 538 \\ 13 2 61 \\ 1142 \\ 538 \\ 13 2 61 \\ 1142 \\ 538 \\ 13 2 61 \\ 1142 7 538 7 7 7 7 7 $	30 8 35 38 319 104 89 67 166 14 55 60 0 14 298	1 0 22 39 188 27 0 33 49 3 197 3 0 0 196	0 0 5 0 11 C 0 23 10 0 C 0 0 0 19	0 1 2 9 0 C 0 5 2 0 C 0 0 0 0 0 0 0	3 427 5 868 9 730 28 904 20 461 6 572 2 237 6 582 14 256 3 621 6 213 1 904 483 295 32 555
		5 089 2 419 42 672 263 585	2 296 2 575 54 135 266 315	1 113 719 16 297 155 002	628 386 12 743 135 987	555 172 5 513 32 579	127 122 1 546 5 913	74 69 901 1 760	4 1 83 267	0 1 48 254	12 037 7 976 163 121 1 158 752

>>> TABLE 9.10 CONTINUED...

					A	GE CLASS YEA	RS					
TERRITORIAL AUTHORITY	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)	61–80 Years (HA)	TOTAL (HA)
NELSON AND MARLBOROUGH WOOD SUPPLY REGION												
Tasman District	14 692	14 674	13 818	18 480	7 609	5 520	1 346	152	214	15	15	76 535
Nelson City	2 232	1 551	1 305	1 764	617	781	60	12	1	0	0	8 323
Marlborough District	6 690	7 993	12 953	20 597	8 673	7 863	1 822	648	196	27	2	67 464
Kaikoura District	9	129	439	437	50	89	61	0	1	2	0	1 217
Region total	23 623	24 347	28 515	41 278	16 949	14 253	3 289	812	412	44	17	153 539
WEST COAST WOOD SUPPLY REGION												
Buller District	299	191	761	761	360	422	47	3	4	0	0	2 848
Grey District	2 154	2 697	2 057	2 028	637	2 166	341	73	142	0	0	12 295
Westland District	1 602	1 078	2 7 3 1	1 256	412	382	342	169	21	1	0	7 994
Region total	4 055	3 966	5 549	4 045	1 409	2 970	730	245	167	1	0	23 137
CANTERBURY WOOD SUPPLY REGION												
Hurunui District	2 080	4 990	9 133	7 405	3 820	2 3 3 1	542	146	108	14	7	30 576
Waimakariri District	533	1 221	2 897	4 200	1 778	525	97	16	50	36	2	11 355
Selwyn District	549	792	1 806	2 273	1 616	914	356	389	46	2	8	8 751
Christchurch City	283	634	1 717	3 004	677	632	315	106	7	1	23	7 399
Ashburton District	288	356	736	589	314	396	173	68	36	6	15	2 977
Mackenzie District	165	181	355	1 246	118	113	66	57	80	2	0	2 383
Timaru District	336	494	1 273	2 1 1 6	1 401	612	97	15	21	0	1	6 366
Waimate District	655	644	2 7 3 4	1 345	794	1 140	127	31	23	24	5	7 522
Region total	4 889	9 312	20 651	22 178	10 518	6 663	1 773	828	371	85	61	77 329
OTAGO AND SOUTHLAND WOOD SUPPLY REGION												
Waitaki District	613	2 934	3 781	3 190	1 470	1 1 3 3	294	118	104	24	7	13 668
Queenstown-Lakes District	0	10	18	42	23	36	80	0	4	20	7	240
Central Otago District	5	201	284	961	76	268	120	51	9	4	70	2 049
Dunedin City	1 257	781	1 500	3 256	2 729	2 260	400	32	42	31	1	12 289
Clutha District	5 825	10 783	13 921	16 037	5 162	5 233	1 294	233	51	15	10	58 564
Southland District	3 514	6 944	9 690	11 327	4 876	4 097	1 023	405	214	16	0	42 106
Gore District	6	61	743	1 097	73	165	41	8	37	1	0	2 232
Invercargill City	8	67	99	175	77	113	98	23	7	5	0	672
Region total	11 228	21 781	30 036	36 085	14 486	13 305	3 350	870	468	116	95	131 820
South Island total	43 795	59 406	84 751	103 586	43 362	37 191	9 142	2 755	1 418	246	173	385 825
New Zealand total	159 739	240 552	348 336	369 901	198 364	173 178	41 721	8 668	3 178	513	427	1 544 577

Note
1. Net stocked planted production forest area.



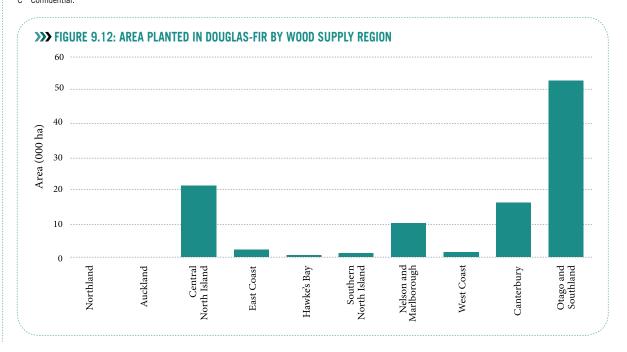
>>> TABLE 9.11: AREA¹ PLANTED IN DOUGLAS-FIR BY TERRITORIAL AUTHORITY, AS AT 1 APRIL 2011

						AGE CLAS	SS YEARS					
TERRITORIAL AUTHORITY	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)	61–80 YEARS (HA)	TOTAL (HA)
NORTHLAND WOOD SUPPLY REGION Far North District Whangarei District Kaipara District	0 0 0	0 0 0	0 0 0	2 0 0	0 0 0	0 0 0	0 0 0	2 0 0	0 0 0	0 0 0	0 0 0	4 0 0
Rodney District Region total	0 0	0 0	0 0	0 2	0 0	0 0	0 0	0 2	0 0	0 0	0 0	0 4
AUCKLAND WOOD SUPPLY REGION North Shore City Waitakere City Auckland City Manukau City Papakura District	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 6 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 6 0
Franklin District Thames-Coromandel District Hauraki District Waikato District Matamata-Piako District Region total	0 0 0 0 0 0	0 0 0 1 1	0 0 0 3 3	0 10 0 1 0 17	0 0 6 0 6	0 0 1 0 1	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 10 0 8 4 28
CENTRAL NORTH ISLAND WOOD SUPPLY REGION Hamilton City Waipa District Otorohanga District South Waikato District Waitomo District	$0 \\ 0 \\ 0 \\ 226 \\ 1 439$	0 0 54 216 128	0 2 37 11 153	0 1 22 4 190	0 0 1 0 3	0 0 0 2 6	0 0 0 0 2	0 0 0 6 253	0 0 129 9 280	0 0 0 0 112	0 0 0 7 3	0 3 243 481 2 569
Taupo District Tauranga City Ruapehu District Western Bay of Plenty District Rotorua District Kawerau District	137 0 3 35 0 0	1 230 0 148 4 35 0	756 0 182 7 487 0	988 0 47 5 241 0	792 0 0 424 0	876 0 4 1 219 0	998 0 17 2 769 0	1 191 0 23 18 730 0	494 0 84 12 262 0	0 0 2 6 0	$ \begin{array}{c} 10 \\ 0 \\ 1 \\ 4 \\ 118 \\ 0 \end{array} $	7 472 0 509 90 3 291 0
Whakatane District Opotiki District Region total	11 0 1 851	212 0 2 027	1 369 0 3 004	793 0 2 291	1 413 0 2 633	1 313 0 2 421	714 0 2 502	702 0 2 923	386 0 1 656	30 0 150	38 0 181	6 981 0 21 639
EAST COAST WOOD SUPPLY REGION Gisborne District Region total	332 332	716 716	510 510	271 271	0 0	1 1	3 3	2 2	525 525	1 1	0 0	2 361 2 361
HAWKE'S BAY WOOD SUPPLY REGION Wairoa District Hastings District Napier City Central Hawke's Bay District Region total	0 0 0 0 0	29 C 0 C 49	12 21 0 7 40	1 139 0 23 163	0 0 1 1	0 51 0 0 51	2 8 0 1 11	4 26 0 0 30	73 21 0 7 101	3 C 0 C 38	3 C 0 C 5	127 306 0 56 489
SOUTHERN NORTH ISLAND WOOD SUPPLY REGION New Plymouth District Stratford District South Taranaki District Wanganui District Rangitikei District	0 0 0 0 1	0 1 0 0 C	0 1 0 10 C	0 0 0 1 C	0 0 0 0 0	0 0 1 0 1	0 0 0 0 8	0 1 0 10 1	0 230 0 40 5	0 198 0 0 6	0 0 0 0 1	0 431 1 61 135
Manawatu District Palmerston North City Horowhenua District Tararua District Kapiti Coast District	0 0 0 0	C 0 6 1	C 0 0 17 2	C 0 0 0	6 0 1 0 0	4 0 1 0	2 0 0 0 0	1 0 10 0	0 0 13 0 0	0 0 3 0	0 0 0 0	20 0 14 37 3
Upper Hutt City Porirua City Wellington City Lower Hutt City Masterton District Carterton District	0 0 0 0 0	8 0 0 0 6 2	11 0 0 0 11 22	1 0 0 4 1	1 0 0 0 0 0	7 0 0 0 0 0	2 0 0 0 5 0	0 0 0 6 0	3 0 0 191 0	2 0 0 0 10 0	0 0 0 0 0	35 0 0 233 25
South Wairarapa District Region total	0	0 36	0 131	0 57	0 8	1 15	0 17	0 29	7 489	0 219	0	8 1 003
North Island total	2 184	2 829	3 688	2 801	2 648	2 489	2 533	2 986	2 771	408	187	25 524

>>> TABLE 9.11 CONTINUED...

						AGE CLASS	YEARS					
TERRITORIAL AUTHORITY	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)	61–80 Years (Ha)	TOTAL (HA)
NELSON AND MARLBOROUGH WOOD SUPPLY REGION												
Tasman District	119	247	1 013	1 534	998	1 240	1 632	555	78	35	9	7 460
Nelson City	7	4	34	28	2	228	100	70	29	11	0	513
Marlborough District	13	78	404	111	102	793	462	69	9	5	2	2 048
Kaikoura District	0	0	19	2	0	1	0	22	37	4	0	85
Region total	139	329	1 470	1 675	1 102	2 262	2 194	716	153	55	11	10 106
WEST COAST WOOD SUPPLY REGION												
Buller District	164	139	184	8	2	5	37	1	1	4	0	545
Grey District	233	146	175	0	0	37	24	47	204	1	0	867
Westland District	0	0	12	2	0	14	0	0	11	0	0	39
Region total	397	285	371	10	2	56	61	48	216	5	0	1 451
CANTERBURY WOOD SUPPLY REGION												
Hurunui District	380	1 316	1 256	554	208	512	428	65	128	2	6	4 855
Waimakariri District	2	50	39	21	6	25	30	96	9	5	0	283
Selwyn District	10	95	170	449	288	112	20	11	124	17	9	1 305
Christchurch City	0	3	42	35	28	14	9	0	3	0	0	134
Ashburton District	15	38	172	83	74	28	С	С	3	С	С	518
Mackenzie District	131	561	333	295	74	45	С	С	18	С	С	1 544
Timaru District	243	2 459	985	48	83	12	367	200	104	7	29	4 537
Waimate District	17	277	2 220	545	26	98	9	5	17	7	7	3 228
Region total	798	4 799	5 217	2 030	787	846	959	456	406	52	54	16 404
OTAGO AND SOUTHLAND WOOD SUPPLY REGION												
Waitaki District	79	195	3 497	85	10	116	75	2	3	0	0	4 062
Queenstown-Lakes District	0	12	55	117	165	90	23	6	2	0	0	470
Central Otago District	366	360	2 1 3 3	139	76	71	41	50	42	7	0	3 285
Dunedin City	42	84	221	95	80	559	196	125	12	0	15	1 429
Clutha District	2 218	4 305	7 647	2 083	835	1 285	515	126	315	19	6	19 354
Southland District	1 060	7 188	10 652	2 570	214	1 010	407	48	185	1	0	23 335
Gore District	0	43	1 011	57	4	0	3	0	15	4	0	1 137
Invercargill City	0	0	0	0	0	0	0	0	0	0	0	0
Region total	3 765	12 187	25 216	5 146	1 384	3 131	1 260	357	574	31	21	53 072
South Island total	5 099	17 600	32 274	8 861	3 275	6 295	4 474	1 577	1 349	143	86	81 033
New Zealand total	7 283	20 429	35 962	11 662	5 923	8 784	7 007	4 563	4 1 2 0	551	273	106 557

Note
1. Net stocked planted production forest area.



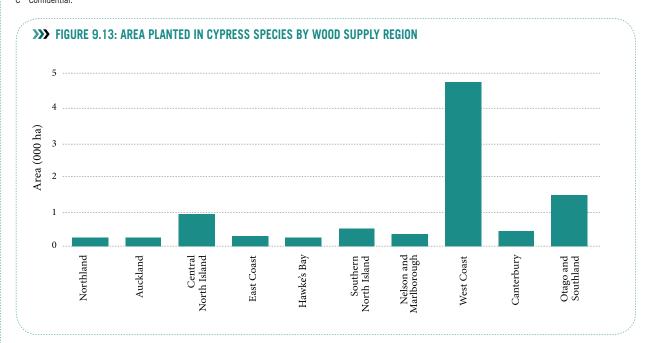
>>> TABLE 9.12: AREA' PLANTED IN CYPRESS SPECIES BY TERRITORIAL AUTHORITY, AS AT 1 APRIL 2011

TestPoint Latenery 1-58 (04) 1-58 (04) 1-58 (04) 19-38 (04) 19							AGE CLAS	SS YEARS					
MARLAN WOD SUPY HEAN Far Varifiel Diariet 1		YEARS	YEARS	YEARS	YEARS	YEARS	YEARS	YEARS	YEARS	YEARS	YEARS	YEARS	TOTAL (HA)
North Store City 0	NORTHLAND WOOD SUPPLY REGION Far North District Whangarei District Kaipara District Rodney District	3 0 0 2	24 0 21 15	26 9 0 32	61 14 6 7	1 0 0 15	C 0 0 C	11 2 0 0	C 0 0 C	0 0 0 0	0 0 0 0	0 0 0 0	139 25 27 74 265
Hamilton City000 <t< td=""><td>North Shore City Waitakere City Auckland City Manukau City Papakura District Franklin District Thames-Coromandel District Hauraki District Waikato District Matamata-Piako District</td><td>0 0 12 0 0 0 0 0 0 0 0</td><td>0 0 41 0 1 0 0 0 0 0</td><td>0 0 0 4 2 0 0 0 0</td><td>0 0 53 3 0 0 0</td><td>0 0 0 1 21 0 0 0</td><td>0 0 0 0 119 0 2 0</td><td>0 0 0 0 0 0 0 0 0 0 0 0</td><td>0 0 4 0 0 0 0 0 0 0 0</td><td>0 0 1 0 0 0 0 0 0 0</td><td>0 0 0 0 0 0 0 0 0</td><td>0 0 0 0 0 0 0 0 0</td><td>0 0 58 0 59 145 0 2 0 0 264</td></t<>	North Shore City Waitakere City Auckland City Manukau City Papakura District Franklin District Thames-Coromandel District Hauraki District Waikato District Matamata-Piako District	0 0 12 0 0 0 0 0 0 0 0	0 0 41 0 1 0 0 0 0 0	0 0 0 4 2 0 0 0 0	0 0 53 3 0 0 0	0 0 0 1 21 0 0 0	0 0 0 0 119 0 2 0	0 0 0 0 0 0 0 0 0 0 0 0	0 0 4 0 0 0 0 0 0 0 0	0 0 1 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 58 0 59 145 0 2 0 0 264
Gisborne District2372434115322433222Region total2372434115322433222HAWKE'S BAY WOOD SUPPLY REGION $\ 0$ 12454000000000000Hasting District26192290100 <td>Hamilton City Waipa District Otorohanga District South Waikato District Waitomo District Taupo District Tauranga City Ruapehu District Western Bay of Plenty District Rotorua District Kawerau District Whakatane District Opotiki District</td> <td>0 0 2 0 208 0 0 16 0 0 0 0 0 0</td> <td>$\begin{array}{c} 0\\ 0\\ 0\\ 106\\ 0\\ 1\\ 30\\ 144\\ 0\\ 78\\ 0\\ \end{array}$</td> <td>0 0 0 64 0 12 1 0 70 0</td> <td>0 0 10 1 3 0 0 2 9 0 2 0 2 0</td> <td>0 4 9 0 0 0 0 0 8 0 25 1</td> <td>0 0 0 7 0 1 8 40 0 39 0</td> <td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>0 0 0 0 0 0 4 0 0 0 0 0 0</td> <td>0 0 0 0 0 0 0 0 0 0 4 4 0</td> <td>0 0 0 0 12 0 1 0 0 0 0 0</td> <td>0 0 4 21 1 388 0 14 72 203 0 218 1 922</td>	Hamilton City Waipa District Otorohanga District South Waikato District Waitomo District Taupo District Tauranga City Ruapehu District Western Bay of Plenty District Rotorua District Kawerau District Whakatane District Opotiki District	0 0 2 0 208 0 0 16 0 0 0 0 0 0	$\begin{array}{c} 0\\ 0\\ 0\\ 106\\ 0\\ 1\\ 30\\ 144\\ 0\\ 78\\ 0\\ \end{array}$	0 0 0 64 0 12 1 0 70 0	0 0 10 1 3 0 0 2 9 0 2 0 2 0	0 4 9 0 0 0 0 0 8 0 25 1	0 0 0 7 0 1 8 40 0 39 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 4 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 4 4 0	0 0 0 0 12 0 1 0 0 0 0 0	0 0 4 21 1 388 0 14 72 203 0 218 1 922
Wairoa District012454000000000Hastings District261922901000 <td>Gisborne District</td> <td></td> <td>289 289</td>	Gisborne District												289 289
New Plymouth District000030001Stratford District1004000001South Taranaki District070290000000Wanganui District09520080314000Rangitikei District421CC91673951000Manawatu District000000000000Palmerston North City0000000000000Horowhenua District2060121722143151717Tararua District0000000000000Upper Hut City000	Wairoa District Hastings District Napier City Central Hawke's Bay District	26 0 0	19 0 3	22 0 4	9 0 0	0 0 0	1 0 29	0 0 5	0 0 2	0 0 0	0 0 0	0 0 0	178 77 0 43 298
South Wairarapa District 0 2 0 0 2 0 <td>New Plymouth District Stratford District South Taranaki District Wanganui District Rangitikei District Manawatu District Palmerston North City Horowhenua District Tararua District Kapiti Coast District Upper Hutt City Porirua City Wellington City Lower Hutt City Masterton District Carterton District South Wairarapa District Region total</td> <td>1 0 4 0 2 0 0 0 0 0 0 0 0 0 0 0 0 7</td> <td>0 7 95 21 0 0 0 0 0 0 0 0 0 0 0 0 0 2 125</td> <td>0 0 2 C 0 6 0 3 1 0 0 0 9 0 0 0 45</td> <td>4 2 0 C 0 0 0 0 0 0 0 0 0 0 0 0 11 1 1 0 24</td> <td>0 9 0 9 7 0 12 0 0 2 0 0 0 0 1 1 0 2 42</td> <td>0 0 8 16 13 0 17 0 6 0 0 0 0 3 0 0 66</td> <td>0 0 7 0 22 0 0 0 0 0 0 0 0 0 0 4 0 0 33</td> <td>0 0 3 39 2 0 14 0 0 0 0 0 0 0 0 0 0 58</td> <td>0 0 14 51 0 0 31 0 0 0 0 0 0 0 0 0 0 96</td> <td>0 0 0 0 5 0 0 0 0 0 0 0 0 0 0 5 5 5 5 5</td> <td>1 0 0 0 0 17 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>4 6 18 122 164 35 0 126 0 9 3 0 0 0 0 28 1 4 520 2 558</td>	New Plymouth District Stratford District South Taranaki District Wanganui District Rangitikei District Manawatu District Palmerston North City Horowhenua District Tararua District Kapiti Coast District Upper Hutt City Porirua City Wellington City Lower Hutt City Masterton District Carterton District South Wairarapa District Region total	1 0 4 0 2 0 0 0 0 0 0 0 0 0 0 0 0 7	0 7 95 21 0 0 0 0 0 0 0 0 0 0 0 0 0 2 125	0 0 2 C 0 6 0 3 1 0 0 0 9 0 0 0 45	4 2 0 C 0 0 0 0 0 0 0 0 0 0 0 0 11 1 1 0 24	0 9 0 9 7 0 12 0 0 2 0 0 0 0 1 1 0 2 42	0 0 8 16 13 0 17 0 6 0 0 0 0 3 0 0 66	0 0 7 0 22 0 0 0 0 0 0 0 0 0 0 4 0 0 33	0 0 3 39 2 0 14 0 0 0 0 0 0 0 0 0 0 58	0 0 14 51 0 0 31 0 0 0 0 0 0 0 0 0 0 96	0 0 0 0 5 0 0 0 0 0 0 0 0 0 0 5 5 5 5 5	1 0 0 0 0 17 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 6 18 122 164 35 0 126 0 9 3 0 0 0 0 28 1 4 520 2 558

>>> TABLE 9.12 CONTINUED...

						AGE CLAS	S YEARS					
TERRITORIAL AUTHORITY	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)	61–80 YEARS (HA)	TOTAL (HA)
NELSON AND MARLBOROUGH WOOD SUPPLY REGION												
Tasman District	5	13	28	52	0	0	0	3	0	0	2	103
Nelson City	0	4	8	5	0	0	0	0	0	0	0	17
Marlborough District	6	55	88	51	6	16	2	1	0	0	1	226
Kaikoura District	0	8	0	0	0	0	0	0	0	0	0	8
Region total	11	80	124	108	6	16	2	4	0	0	3	354
WEST COAST WOOD SUPPLY REGION												
Buller District	0	0	3	2	0	11	0	0	0	0	10	26
Grey District	41	110	20	16	26	85	10	0	0	13	0	321
Westland District	996	1 235	1 312	483	68	310	23	0	0	0	1	4 428
Region total	1 037	1 345	1 335	501	94	406	33	0	0	13	11	4 775
CANTERBURY WOOD SUPPLY REGION												
Hurunui District	54	34	3	5	1	0	0	0	0	3	7	107
Waimakariri District	0	0	8	12	5	0	0	0	0	0	0	25
Selwyn District	0	0	5	7	0	0	0	0	0	0	0	12
Christchurch City	0	0	68	135	0	3	0	0	1	1	0	208
Ashburton District	0	2	14	6	2	0	0	0	0	0	0	24
Mackenzie District	0	1	0	22	0	0	0	0	0	0	0	23
Timaru District	0	0	11	14	0	5	0	0	0	0	0	30
Waimate District	0	14	7	5	13	0	0	0	0	0	0	39
Region total	54	51	116	206	21	8	0	0	1	4	7	468
OTAGO AND SOUTHLAND WOOD SUPPLY REGION												
Waitaki District	3	6	14	3	13	0	1	0	0	5	0	45
Queenstown-Lakes District	0	0	0	0	0	0	0	0	0	0	0	0
Central Otago District	0	0	0	0	0	0	0	0	0	0	0	0
Dunedin City	12	8	12	58	63	0	0	0	0	0	0	153
Clutha District	117	260	219	107	76	98	1	1	0	4	9	892
Southland District	45	70	120	10	9	98	18	0	0	0	0	370
Gore District	0	0	0	0	0	0	0	0	0	0	0	0
Invercargill City Region total	0 177	0 344	0 365	5 183	6 167	1 197	1 21	0	0 0	0 9	0 9	13 1 473
-										-		
South Island total	1 279	1 820	1 940	998	288	627	56	5	1	26	30	7 070
New Zealand total	1 578	2 624	2 328	1 243	430	974	131	85	134	37	64	9 628

Note
1. Net stocked planted production forest area.



>>> TABLE 9.13: AREA¹ PLANTED IN OTHER SOFTWOODS² BY TERRITORIAL AUTHORITY, AS AT 1 APRIL 2011

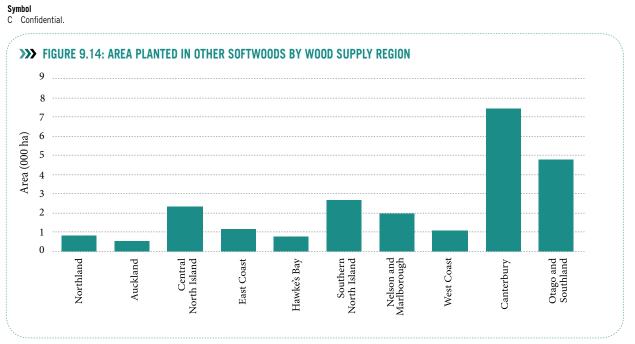
						AGE CLAS	SS YEARS					
TERRITORIAL AUTHORITY	1–5 Years (Ha)	6–10 Years (Ha)	11–15 YEARS (HA)	16–20 YEARS (HA)	21–25 Years (Ha)	26–30 Years (HA)	31–35 YEARS (HA)	36–40 Years (Ha)	41–50 Years (Ha)	51–60 Years (HA)	61–80 Years (Ha)	TOTAL (HA)
NORTHLAND WOOD SUPPLY REGION Far North District Whangarei District Kaipara District Rodney District Region total	0 0 15 15	54 19 46 19 138	87 117 59 24 287	60 38 11 20 129	9 7 37 5 58	17 3 C C 36	7 5 0 11 23	3 3 C C 8	27 11 1 0 39	7 11 1 0 19	31 5 18 6 60	302 219 180 111 812
AUCKLAND WOOD SUPPLY REGION North Shore City Waitakere City Auckland City Manukau City Papakura District Franklin District Thames-Coromandel District Hauraki District Waikato District Matamata-Piako District Region total	0 0 1 0 2 0 0 0 C C C	0 0 39 0 7 6 19 C C C C	0 0 9 0 11 6 16 36 12 90	0 0 8 0 28 17 0 19 5 77	0 0 0 0 3 2 0 C C C 16	0 0 1 0 5 18 1 0 1 26	0 0 1 0 0 2 0 0 0 0 3	0 0 7 0 9 2 0 0 0 0 18	0 0 2 0 14 3 0 0 0 0 19	0 0 0 0 4 19 0 0 0 0 23	0 0 0 1 46 73 0 0 3 123	0 0 68 1 129 148 36 133 27 542
CENTRAL NORTH ISLAND WOOD SUPPLY REGION Hamilton City Waipa District Otorohanga District South Waikato District Waitomo District Taupo District Tauranga City Ruapehu District Western Bay of Plenty District Rotorua District Kawerau District Whakatane District Opotiki District Region total	0 0 0 50 0 5 C 42 0 0 0 0 C	0 6 5 0 C 11 0 29 C 27 0 8 2 7 0 8 2 C	0 38 7 0 30 44 0 220 118 136 0 23 0 616	0 22 2 38 55 0 118 68 64 0 24 3 416	0 2 24 28 1 17 0 5 0 37 0 7 1 1 22	0 1 3 1 13 48 0 12 2 83 0 21 0 184	0 0 26 0 124 0 88 1 35 0 10 2 2 86	0 0 4 4 4 4 4 0 3 0 12 0 1 2 0 1 0 68	0 4 3 5 36 27 0 12 0 24 0 24 0 8 0 119	0 0 0 16 4 0 1 C 1 0 C 0 49	0 0 26 1 25 0 122 C 58 0 C 0 251	0 73 64 92 151 449 0 615 255 519 0 133 8 2 359
EAST COAST WOOD SUPPLY REGION Gisborne District Region total	57 57	120 120	47 47	96 96	9 9	56 56	166 166	27 27	503 503	84 84	6 6	1 171 1 171
HAWKE'S BAY WOOD SUPPLY REGION Wairoa District Hastings District Napier City Central Hawke's Bay District Region total	24 4 0 0 28	154 C 0 C 193	37 35 0 34 106	37 48 0 13 98	0 C 0 C 24	10 41 2 10 63	62 32 0 1 95	0 4 0 2 6	29 12 0 18 59	35 25 0 13 73	3 1 0 49 53	391 228 2 177 798
SOUTHERN NORTH ISLAND WOOD SUPPLY REGION New Plymouth District Stratford District South Taranaki District Wanganui District Rangitikei District Manawatu District Palmerston North City Horowhenua District Tararua District Kapiti Coast District Upper Hutt City	106 0 1 12 94 1 0 0 0 0 0 0 0 0 0	1117 6 26 121 286 40 0 1 12 7 7 1	332 3 30 45 141 22 0 8 20 9 3	21 11 32 55 19 22 0 18 7 12 7	9 3 7 0 31 C 1 10 C 1 21	1 5 0 6 C 0 0 0 C 1 86	1 0 8 9 3 0 4 7 0 0 0	0 1 0 6 0 0 0 5 1 0 0 0	$ \begin{array}{c} 1 \\ 0 \\ 48 \\ 6 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	0 0 0 3 C 0 5 0 0 5 0 0 0 C	0 0 3 1 11 C 0 9 2 0 C	588 29 99 296 606 118 1 61 311 30 127
Porirua City Wellington City Lower Hutt City Masterton District Carterton District South Wairarapa District Region total	0 0 23 0 0 237	0 0 59 1 8 685	0 0 2 60 15 10 700	6 0 45 12 1 268	0 0 2 10 3 4 111	0 0 43 1 0 416	0 0 18 0 1 51	0 0 1 0 0 14	0 0 47 42 0 145	0 0 7 0 5 31	0 0 18 0 0 52	6 0 4 331 74 29 2 710
North Island total	454	1 414	1 846	1 084	340	781	624	141	884	279	545	8 392

>>> TABLE 9.13 CONTINUED...

						AGE CLAS	SS YEARS					
TERRITORIAL AUTHORITY	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)	61–80 Years (HA)	TOTAL (HA)
NELSON AND MARLBOROUGH WOOD SUPPLY REGION												
Tasman District	24	130	82	180	72	316	245	95	64	19	52	1 279
Nelson City	0	0	1	1	0	35	14	12	8	22	1	94
Marlborough District	13	123	130	73	52	147	36	28	9	13	1	625
Kaikoura District	0	0	7	0	0	0	1	0	0	0	0	8
Region total	37	253	220	254	124	498	296	135	81	54	54	2 006
WEST COAST WOOD SUPPLY REGION												
Buller District	0	1	6	29	0	34	103	5	11	0	6	195
Grey District	0	2	4	5	19	156	128	59	111	35	0	519
Westland District	1	80	172	35	0	23	22	2	29	5	27	396
Region total	1	83	182	69	19	213	253	66	151	40	33	1 1 1 0
CANTERBURY WOOD SUPPLY REGION												
Hurunui District	913	875	63	47	10	638	215	59	179	35	82	3 1 1 6
Waimakariri District	21	0	16	131	15	11	59	12	0	1	0	266
Selwyn District	2	12	91	144	51	10	5	7	33	2	10	367
Christchurch City	0	38	83	936	51	26	3	3	0	2	6	1 148
Ashburton District	3	20	66	39	58	12	С	С	0	С	С	239
Mackenzie District	24	7	58	229	71	141	С	С	160	С	С	897
Timaru District	42	9	230	120	159	118	70	17	26	6	2	799
Waimate District	8	65	199	60	12	236	74	4	6	0	5	669
Region total	1 013	1 026	806	1 706	427	1 192	480	166	404	141	140	7 501
OTAGO AND SOUTHLAND WOOD SUPPLY REGION												
Waitaki District	29	13	109	124	1	27	10	0	5	8	0	326
Queenstown-Lakes District	3	5	1	22	10	0	0	0	3	0	0	44
Central Otago District	100	58	228	480	104	97	203	144	362	33	35	1 844
Dunedin City	2	5	7	75	29	14	38	0	1	13	16	200
Clutha District	26	64	268	250	82	258	70	12	75	27	71	1 203
Southland District	4	70	50	181	38	134	429	50	6	39	11	1 012
Gore District	0	2	18	141	0	0	0	0	2	0	0	163
Invercargill City	0	0	0	3	0	0	0	0	0	0	0	3
Region total	164	217	681	1 276	264	530	750	206	454	120	133	4 795
South Island total	1 215	1 579	1 889	3 305	834	2 433	1 779	573	1 090	355	360	15 412
New Zealand total	1 669	2 993	3 735	4 389	1 174	3 214	2 403	714	1 974	634	905	23 804

Notes

Net stocked planted production forest area.
 Softwoods other than radiata pine, Douglas-fir and cypresses.



>>> TABLE 9.14: AREA¹ PLANTED IN EUCALYPT SPECIES BY TERRITORIAL AUTHORITY, AS AT 1 APRIL 2011

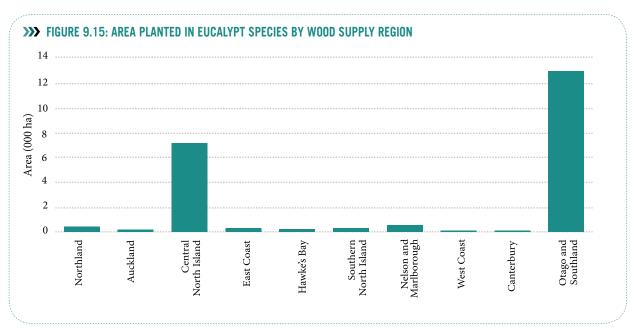
						AGE CLAS	S YEARS					
TERRITORIAL AUTHORITY	1–5 Years (ha)	6–10 Years (Ha)	11–15 YEARS (HA)	16–20 YEARS (HA)	21–25 YEARS (HA)	26–30 YEARS (HA)	31–35 YEARS (HA)	36–40 YEARS (HA)	41–50 YEARS (HA)	51–60 Years (Ha)	61–80 YEARS (HA)	TOTAL (HA)
NORTHLAND WOOD SUPPLY REGION Far North District Whangarei District Kaipara District Rodney District Region total	2 0 0 10 12	15 0 0 2 17	17 0 0 0 17	2 41 151 8 202	11 5 0 0 16	C 25 C 4 43	37 57 1 9 104	C 0 C 1 17	1 0 1 3 5	5 0 1 6	0 1 0 0 1	103 129 170 38 440
AUCKLAND WOOD SUPPLY REGION North Shore City Waitakere City Auckland City Manukau City Papakura District Franklin District Thames-Coromandel District Hauraki District Waikato District Matamata-Piako District Region total	0 0 12 0 0 0 0 0 0 0 0 12	0 0 21 0 0 0 0 0 0 0 21	0 0 0 0 0 0 1 0 0 1	0 0 2 0 7 1 0 1 0 1 0 1	0 0 0 0 2 0 0 0 0 0 0 2	0 0 2 0 70 0 0 0 0 0 72	0 0 0 0 45 0 0 4 4 49	0 0 2 0 10 0 0 0 0 12	0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 6 0 0 0 0 6	0 0 0 0 1 0 0 0 0 1	0 0 39 0 9 133 1 1 4 187
CENTRAL NORTH ISLAND WOOD SUPPLY REGION Hamilton City Waipa District Otorohanga District South Waikato District Waitomo District Taupo District Tauranga District Tauranga District Ruapehu District Western Bay of Plenty District Rotorua District Kawerau District Whakatane District Opotiki District Region total	0 0 210 0 554 0 0 6 0 0 0 0 0 770	0 0 364 0 186 0 1 63 0 0 0 169 0 783	0 346 0 262 0 627 0 3 174 468 31 1 074 0 2 985	0 0 43 2 938 0 0 111 3 0 375 0 1372	0 0 4 448 1 110 0 0 6 0 0 34 9 612	0 0 16 0 73 0 3 33 21 0 56 1 203	0 0 5 54 8 0 3 4 5 0 3 5 87	0 0 0 5 0 0 1 1 1 0 1 8	0 0 4 0 206 0 0 2 0 0 0 0 0 0 2 12	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 70	0 0 0 1 1 C 13 0 C 0 35	0 346 4 1 352 57 2 708 0 11 388 511 31 1 714 15 7 137
EAST COAST WOOD SUPPLY REGION Gisborne District Region total	5 5	2 2	29 29	0 0	62 62	154 154	57 57	8 8	2 2	0 0	0 0	319 319
HAWKE'S BAY WOOD SUPPLY REGION Wairoa District Hastings District Napier City Central Hawkes Bay District Region total	48 2 0 0 50	116 1 0 0 117	26 1 0 1 28	0 3 6 0 9	0 0 0 0 0	1 21 0 0 22	0 1 0 3 4	0 6 0 10 16	1 1 0 0 2	0 0 0 0 0	0 0 0 0 0	192 36 6 14 248
SOUTHERN NORTH ISLAND WOOD SUPPLY REGION New Plymouth District Stratford District South Taranaki District Wanganui District Rangitikei District Manawatu District Palmerston North City Horowhenua District Tararua District Kapiti Coast District Upper Hutt City Porirua City Wellington City Lower Hutt City Masterton District Carterton District South Wairarapa District Region total	0 0 2 0 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 2 0 0 9	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 C C C 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 C C 0 1 0 0 0 0 0 0 0 0 2 0 0 40 54	0 0 1 0 2 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0	0 0 2 1 5 0 0 21 0 0 0 0 0 0 0 2 0 0 0 2 0 0 3 1	0 0 0 17 0 0 0 4 0 0 0 0 0 0 0 0 1 0 0 123 145	0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 3 1 0 0 0 0 0 0 0 0 0 0 0 1 0 0 5	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 1	1 1 0 0 0 0 0 0 0 0 0 0 0 0 0	1 2 5 21 29 10 0 27 0 1 0 0 0 0 0 0 9 0 0 174 279
North Island total	858	943	3 073	1 648	707	525	446	62	226	83	39	8 610

>>> TABLE 9.14 CONTINUED...

					AG	E CLASS YEAR	S					
TERRITORIAL AUTHORITY	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)	61–80 Years (HA)	TOTAL (HA)
NELSON AND MARLBOROUGH WOOD SUPPLY REGION												
Tasman District	0	0	2	8	16	94	165	41	0	0	3	329
Nelson City	0	0	0	0	4	29	1	3	0	0	1	38
Marlborough District	7	9	0	1	37	61	60	1	0	0	0	176
Kaikoura District	0	0	0	0	0	0	0	0	0	0	0	0
Region total	7	9	2	9	57	184	226	45	0	0	4	543
WEST COAST WOOD SUPPLY REGION												
Buller District	0	0	0	0	0	2	1	3	0	0	3	9
Grey District	0	0	0	5	0	0	21	14	0	1	0	41
Westland District	0	0	4	0	1	12	29	0	0	0	0	46
Region total	0	0	4	5	1	14	51	17	0	1	3	96
CANTERBURY WOOD SUPPLY REGION												
Hurunui District	0	14	0	0	1	1	0	0	0	0	0	16
Waimakariri District	0	0	0	0	0	1	0	0	0	0	0	1
Selwyn District	0	2	0	0	2	5	0	0	0	0	0	9
Christchurch City	0	0	15	19	0	0	0	0	0	0	10	44
Ashburton District	0	0	0	0	0	3	0	0	0	0	0	3
Mackenzie District	0	0	0	0	0	14	0	0	0	0	0	14
Timaru District	0	3	0	10	0	0	0	0	0	0	0	13
Waimate District	0	0	0	0	0	2	0	0	0	0	0	2
Region total	0	19	15	29	3	26	0	0	0	0	10	102
OTAGO AND SOUTHLAND WOOD SUPPLY REGION												
Waitaki District	0	6	0	0	43	42	24	0	1	2	0	118
Queenstown-Lakes District	0	0	0	0	0	0	0	0	0	0	0	0
Central Otago District	0	0	0	0	0	6	21	0	0	0	0	27
Dunedin City	0	0	0	11	25	32	2	1	0	0	0	71
Clutha District	57	5	754	0	3	202	С	С	2	0	2	1 068
Southland District	1 068	1 345	4 633	3 015	756	45	С	С	3	0	2	10 922
Gore District	98	0	565	0	35	0	0	0	0	0	0	698
Invercargill City	0	0	0	0	0	0	0	0	0	0	0	0
Region total	1 223	1 356	5 952	3 026	862	327	121	25	6	2	4	12 904
South Island total	1 230	1 384	5 973	3 069	923	551	398	87	6	3	21	13 645
New Zealand total	2 088	2 327	9 046	4 717	1 630	1 076	844	149	232	86	60	22 255

Note

1. Net stocked planted production forest area.



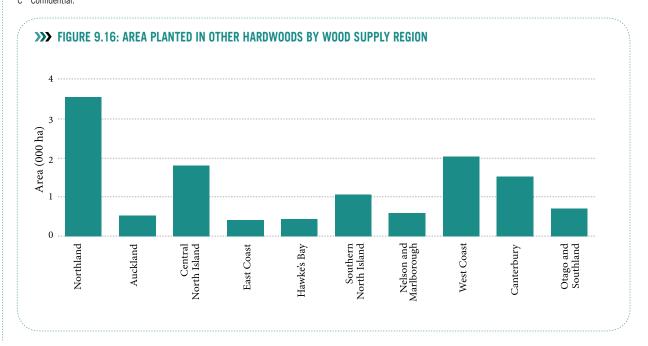
>>> TABLE 9.15: AREA' PLANTED IN OTHER HARDWOODS BY TERRITORIAL AUTHORITY, AS AT 1 APRIL 2011

						AGE CLAS	SS YEARS					
TERRITORIAL AUTHORITY	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)	61-80 YEARS (HA)	TOTAL (HA)
NORTHLAND WOOD SUPPLY REGION Far North District Whangarei District Kaipara District Rodney District Region total	5 0 85 11 101	708 14 173 37 932	657 178 382 220 1 437	116 169 50 106 441	63 29 24 24 140	202 54 17 15 288	63 14 7 50 134	3 3 18 15 39	4 0 8 5 17	1 0 10 11	3 2 0 2 7	1 825 463 764 495 3 547
AUCKLAND WOOD SUPPLY REGION North Shore City Waitakere City Auckland City Manukau City Papakura District Franklin District Thames-Coromandel District Hauraki District Waikato District Matamata-Piako District Region total	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 11 3 0 C C C C	0 0 33 1 22 2 17 4 5 84	0 0 15 0 51 34 7 28 14 149	0 0 24 0 29 2 0 C C 68	0 1 0 57 0 21 9 0 6 1 95	0 0 3 0 17 7 0 1 0 28	0 0 13 0 2 0 0 0 0 0 15	0 0 3 0 0 0 0 0 0 0 0 0 3	0 0 0 0 0 2 0 0 0 0 2 2 0 0 0 2	4 0 0 0 0 0 6 1 0 11	4 1 0 148 1 151 61 30 97 25 518
CENTRAL NORTH ISLAND WOOD SUPPLY REGION Hamilton City Waipa District Otorohanga District South Waikato District Waitomo District Taupo District Tauranga District Tauranga District Ruapehu District Western Bay of Plenty District Rotorua District Kawerau District Whakatane District Opotiki District Region total	0 0 1 C 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 47 12 25 C 42 3 1 C 67 0 48 9 C	0 140 8 27 22 187 22 5 38 242 3 87 10 791	0 13 17 20 38 52 1 0 62 83 0 50 6 342	0 2 15 4 4 4 4 1 0 39 29 0 22 3 123	0 2 21 3 7 5 1 0 55 23 0 7 0 124	0 9 0 1 9 0 1 14 6 0 4 0 44	0 0 4 2 2 0 0 0 0 17 0 0 0 25	0 0 2 0 5 0 0 0 16 0 2 0 25	0 0 0 2 0 0 0 0 1 1 0 3 0 7	0 0 2 0 0 0 0 0 9 0 0 0 0 1	0 213 75 86 83 306 28 7 247 493 3 223 28 1 792
EAST COAST WOOD SUPPLY REGION Gisborne District Region total	35 35	15 15	45 45	74 74	74 74	85 85	33 33	11 11	11 11	3 3	36 36	422 422
HAWKE'S BAY WOOD SUPPLY REGION Wairoa District Hastings District Napier City Central Hawke's Bay District Region total	0 104 0 0 104	19 21 0 8 48	1 40 0 23 64	0 29 0 25 54	22 C 0 C 55	25 19 2 6 52	2 7 0 0 9	0 0 6 6	3 1 0 0 4	0 C 0 C 6	22 C 0 C 30	94 254 2 82 432
SUTHERN NORTH ISLAND WOOD SUPPLY REGION New Plymouth District Stratford District South Taranaki District Wanganui District Rangitikei District Manawatu District Palmerston North City Horowhenua District Tararua District Kapiti Coast District Upper Hutt City Porirua City Wellington City Lower Hutt City Masterton District Carterton District South Wairarapa District Region total	0 3 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	14 6 6 12 7 10 8 1 12 2 0 0 0 0 0 0 0 23 1 1 1 103	18 9 24 32 60 16 2 10 15 12 0 0 0 0 0 0 0 10 0 3 211	18 46 19 32 36 23 52 59 15 16 3 0 0 0 0 16 6 73 414	3 1 4 8 23 C 0 3 C 0 3 C 1 0 1 0 1 0 0 1 2 8 39 120	4 1 2 0 2 C 0 1 C 0 23 1 0 0 23 1 0 0 78	1 0 2 1 4 0 0 0 8 1 0 0 0 0 8 8 18 9 52	0 0 0 0 0 3 0 0 0 0 0 0 0 0 0 0 0 5 6	$\begin{array}{c} 0 \\ 0 \\ 0 \\ 8 \\ 10 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	0 0 0 32 0 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 6 5 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	58 66 58 100 179 83 62 79 69 32 26 2 0 0 93 33 125 1 065
North Island total	261	1 450	2 6 3 2	414 1 474	580	78	32 300	102	25 85	54 63	12	7 776

>>> TABLE 9.15 CONTINUED...

						AGE CLASS	YEARS					
TERRITORIAL AUTHORITY	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)	61–80 Years (HA)	TOTAL (HA)
NELSON AND MARLBOROUGH WOOD SUPPLY REGION												
Tasman District	1	9	69	84	51	19	50	10	0	8	33	334
Nelson City	0	0	1	5	7	0	0	0	0	3	0	16
Marlborough District	10	22	30	118	28	16	6	6	1	1	5	243
Kaikoura District	0	0	0	0	0	0	3	0	0	0	0	3
Region total	11	31	100	207	86	35	59	16	1	12	38	596
WEST COAST WOOD SUPPLY REGION												
Buller District	0	0	4	7	0	0	0	0	0	0	1	12
Grey District	89	47	1	5	5	45	2	0	0	0	0	194
Westland District	78	127	126	619	499	359	2	0	0	0	0	1 810
Region total	167	174	131	631	504	404	4	0	0	0	1	2 016
CANTERBURY WOOD SUPPLY REGION												
Hurunui District	0	21	8	32	4	4	0	0	1	0	0	70
Waimakariri District	0	0	14	90	17	2	0	0	0	0	0	123
Selwyn District	0	1	15	39	12	3	1	1	0	3	0	75
Christchurch City	1	252	169	489	14	24	11	0	1	0	8	969
Ashburton District	0	0	16	15	8	6	0	0	0	0	0	45
Mackenzie District	0	2	7	30	0	2	3	0	0	9	9	62
Timaru District	0	9	29	18	14	2	0	0	37	0	10	119
Waimate District	0	0	15	20	11	2	0	0	6	0	1	55
Region total	1	285	273	733	80	45	15	1	45	12	28	1 518
OTAGO AND SOUTHLAND WOOD SUPPLY REGION												
Waitaki District	0	2	12	48	1	12	6	0	0	0	3	84
Queenstown-Lakes District	0	0	0	0	3	0	0	0	0	0	0	3
Central Otago District	0	0	14	59	3	9	1	0	0	0	0	86
Dunedin City	0	1	2	33	10	8	0	0	0	0	15	69
Clutha District	0	9	27	26	30	34	С	С	6	18	14	196
Southland District	0	21	91	77	23	32	С	С	1	1	2	253
Gore District	0	4	3	3	6	0	0	0	0	0	0	16
Invercargill City	0	0	0	0	0	0	0	0	0	0	0	0
Region total	0	37	149	246	76	95	36	8	7	19	34	707
South Island total	179	527	653	1 817	746	579	114	25	53	43	101	4 837
New Zealand total	440	1 977	3 285	3 291	1 326	1 301	414	127	138	106	208	12 613

Note
1. Net stocked planted production forest area.



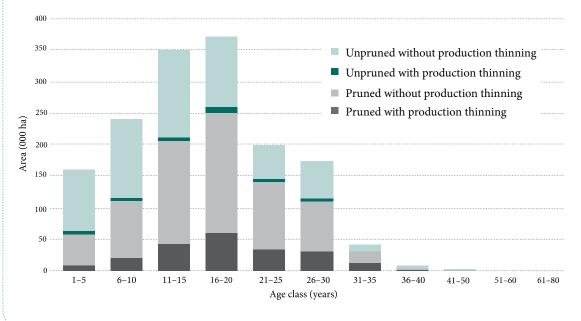


RADIATA PINE TENDING REGIME

This section presents detailed information for each radiata pine NEFD tending regime, showing the forest area for each territorial authority by five-yearly age class. Figure 9.17 provides an overview of this, illustrating the radiata pine tending regime breakdown by age class.

The four tables that follow show the area:

- pruned with production thinning;
- pruned without production thinning;
- unpruned with production thinning;
- unpruned without production thinning.



>>>> FIGURE 9.17: RADIATA PINE FOREST AREA BY AGE CLASS AND TENDING REGIME, AS AT 1 APRIL 2011

>>> TABLE 9.16: AREA' OF RADIATA PINE PRUNED WITH PRODUCTION THINNING BY TERRITORIAL AUTHORITY, AS AT 1 APRIL 2011

						AGE CLAS	SS YEARS					
TERRITORIAL AUTHORITY	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)	61–80 YEARS (HA)	TOTAL (HA)
NORTHLAND WOOD SUPPLY REGION Far North District Whangarei District Kaipara District Rodney District Region total	345 4 1 1 351	569 201 40 190 1 000	1 395 942 1 070 1 145 4 552	1 917 1 320 1 755 1 128 6 120	3 493 376 1 436 99 5 404	4 287 209 27 227 4 750	3 484 184 75 369 4 112	222 C 15 C 443	4 C 4 C 136	0 0 4 1 5	0 1 0 0 1	15 716 3 474 4 427 3 257 26 874
AUCKLAND WOOD SUPPLY REGION North Shore City Waitakere City Auckland City Manukau City Papakura District Franklin District Thames-Coromandel District Hauraki District Waikato District Matamata-Piako District Region total	0 0 20 0 28 0 6 0 54	0 0 3 0 14 39 13 806 21 896	0 0 22 0 170 103 107 1 618 72 2 092	0 1 0 242 10 496 424 283 806 75 2 337	6 1 0 52 0 56 48 10 152 22 347	0 0 71 0 52 122 67 22 16 350	3 2 0 6 0 81 51 C C 9 195	1 0 0 35 66 C C 1 105	0 0 1 0 0 0 0 0 0 0 1	0 0 0 29 0 0 0 0 0 29	0 0 0 19 0 0 0 0 0 19	10 4 0 417 10 952 881 511 3 424 216 6 425
CENTRAL NORTH ISLAND WOOD SUPPLY REGION Hamilton City Waipa District Otorohanga District South Waikato District Waitomo District Taupo District Tauranga City Ruapehu District Western Bay of Plenty District Rotorua District Kawerau District Whakatane District Opotiki District Region total	$\begin{array}{c} 0\\ 5\\ 0\\ 0\\ 24\\ 4655\\ 0\\ 203\\ 54\\ 1002\\ 0\\ 1043\\ 0\\ 6986 \end{array}$	0 103 73 11 132 6 590 1 436 271 2 992 0 2 399 2 13 010	0 369 164 53 1 246 3 505 2 2 122 507 1 890 0 6 931 7 16 796	0 382 389 123 1 074 2 481 6 2 174 1 812 1 677 0 4 936 34 15 088	0 88 65 20 216 12 394 0 313 668 1 475 0 4 445 0 19 684	1 126 33 71 204 14 649 5 874 409 342 0 2 003 0 18 717	0 130 13 C C 3 571 0 284 125 161 0 233 11 4 570	0 27 0 C 4 0 0 0 5 0 1 0 40	0 0 1 0 13 0 0 0 0 1 0 6 0 21	0 0 0 0 0 0 0 0 0 8 0 0 0 8 8	0 0 0 0 0 0 0 0 1 6 0 0 0 7	$\begin{array}{c} 1\\ 1\ 230\\ 737\\ 284\\ 2\ 936\\ 47\ 862\\ 14\\ 6\ 406\\ 3\ 847\\ 9\ 559\\ 0\\ 21\ 997\\ 54\\ 94\ 927\\ \end{array}$
EAST COAST WOOD SUPPLY REGION Gisborne District Region total	1 1	243 243	946 946	2 129 2 129	618 618	237 237	150 150	13 13	0 0	0 0	0 0	4 337 4 337
HAWKE'S BAY WOOD SUPPLY REGION Wairoa District Hastings District Napier City Central Hawkes Bay District Region total	30 28 0 57 115	31 192 0 182 405	234 565 6 1 075 1 880	680 3 432 0 2 048 6 160	74 391 0 261 726	213 582 2 282 1 079	56 205 0 265 526	7 26 0 50 83	2 2 0 10 14	0 0 0 0 0	0 1 0 0 1	1 327 5 424 8 4 230 10 989
SOUTHERN NORTH ISLAND WOOD SUPPLY REGION New Plymouth District Stratford District South Taranaki District Wanganui District Rangitikei District Manawatu District Palmerston North City Horowhenua District Tararua District Tararua District Kapiti Coast District Upper Hutt City Porirua City Wellington City Lower Hutt City Masterton District Carterton District South Wairarapa District Region total	18 3 12 146 180 18 2 5 14 0 0 0 0 0 0 0 0 69 0 2 2 469	169 88 307 1 054 482 193 112 104 140 85 12 0 0 0 0 0 163 29 85 3 023	180 88 1 556 3 184 601 376 132 127 236 236 94 14 0 46 259 16 136 7 281	409 680 911 2 338 2 633 1 308 236 1 232 1 296 474 85 108 39 0 942 75 122 12 888	283 68 317 1 374 410 267 31 354 229 53 49 32 38 3 101 7 21 3 637	139 6 165 710 455 349 6 296 214 85 46 132 2 0 15 11 24 2 655	110 19 150 54 170 155 97 81 87 26 10 7 2 20 45 1 29 1063	3 4 7 24 76 62 10 18 17 1 1 1 0 0 9 17 0 6 255	1 0 4 29 4 20 0 6 7 0 5 5 0 0 0 1 4 8 8 9	0 0 2 0 1 0 0 0 0 0 0 0 0 0 0 0 0 4 4 0 0 7	0 1 1 0 0 0 0 1 0 0 0 24 0 0 0 0 0 0 0 27	1 312 957 3 432 8 913 5 012 2 748 626 2 224 2 240 960 326 293 81 78 1 616 143 433 31 394
North Island total	7 976	18 577	33 547	44 722	30 416	27 788	10 616	939	261	49	55	174 946

>>> TABLE 9.16 CONTINUED...

						AGE CLAS	S YEARS					
TERRITORIAL AUTHORITY	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)	61–80 Years (HA)	TOTAL (HA)
NELSON AND MARLBOROUGH WOOD SUPPLY REGION												
Tasman District	68	180	С	С	302	224	206	С	С	0	1	3 487
Nelson City	0	0	С	С	0	0	0	0	0	0	0	95
Marlborough District	37	364	1 853	3 255	580	718	111	С	С	0	0	6 965
Kaikoura District	0	4	55	103	8	4	7	0	0	0	0	181
Region total	105	548	2 674	5 154	890	946	324	60	26	0	1	10 728
WEST COAST WOOD SUPPLY REGION												
Buller District	0	1	58	199	2	0	0	0	0	0	0	260
Grey District	0	0	19	172	0	51	82	2	0	0	0	326
Westland District	0	4	147	36	0	23	0	0	0	0	0	210
Region total	0	5	224	407	2	74	82	2	0	0	0	796
CANTERBURY WOOD SUPPLY REGION												
Hurunui District	18	286	1 680	1 572	324	272	128	78	58	3	0	4 4 1 9
Waimakariri District	27	113	319	1 226	255	143	29	0	26	0	0	2 1 3 8
Selwyn District	4	47	163	515	149	74	114	0	23	0	7	1 096
Christchurch City	0	190	444	693	145	148	80	3	0	0	0	1 703
Ashburton District	2	25	104	184	С	С	13	0	28	0	0	571
Mackenzie District	0	21	87	163	С	С	6	0	1	0	0	350
Timaru District	1	127	395	433	168	127	59	14	10	0	1	1 335
Waimate District	1	42	239	168	88	54	12	2	0	0	0	606
Region total	53	851	3 431	4 954	1 275	959	441	97	146	3	8	12 218
OTAGO AND SOUTHLAND WOOD SUPPLY REGION												
Waitaki District	6	150	316	890	99	156	164	41	51	0	0	1 873
Queenstown-Lakes District	0	0	0	15	0	31	65	0	0	0	0	111
Central Otago District	0	44	30	120	10	94	0	4	0	0	37	339
Dunedin City	1	41	179	825	152	40	0	10	10	18	0	1 276
Clutha District	3	111	1 037	1 394	178	124	83	29	16	0	0	2 975
Southland District	67	320	1 056	1 228	548	343	210	108	3	0	0	3 883
Gore District	0	10	218	449	17	3	17	2	16	0	0	732
Invercargill City	0	3	1	62	0	0	1	0	0	0	0	67
Region total	77	679	2 837	4 983	1 004	791	540	194	96	18	37	11 256
South Island total	235	2 083	9 166	15 498	3 171	2 770	1 387	353	268	21	46	34 998
New Zealand total	8 211	20 660	42 713	60 220	33 587	30 558	12 003	1 292	529	70	101	209 944

Note
1. Net stocked planted production forest area.

Symbol C Confidential.

>>> FIGURE 9.18: AREA OF RADIATA PINE PRUNED WITH PRODUCTION THINNING BY WOOD SUPPLY REGION 100 90 80 70 60 Area (000 ha) 50 40 30 20 10 0 Central North Island Southern North Island Nelson and Marlborough Otago and Southland Northland Auckland East Coast Hawke's Bay West Coast Canterbury

>>> TABLE 9.17: AREA¹ OF RADIATA PINE PRUNED WITHOUT PRODUCTION THINNING BY TERRITORIAL AUTHORITY, AS AT 1 APRIL 2011

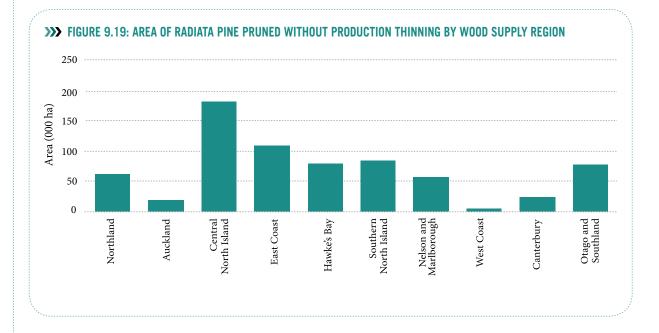
						AGE CLAS	S YEARS					
TERRITORIAL AUTHORITY	1–5 YEARS (HA)	6–10 Years (Ha)	11–15 Years (Ha)	16–20 YEARS (HA)	21–25 YEARS (HA)	26–30 YEARS (HA)	31–35 YEARS (HA)	36–40 Years (Ha)	41–50 Years (Ha)	51–60 YEARS (HA)	61–80 YEARS (HA)	TOTAL (HA)
NORTHLAND WOOD SUPPLY REGION Far North District Whangarei District Kaipara District Rodney District Region total	2 224 25 394 22 2 665	3 316 451 929 936 5 632	6 154 2 727 3 822 1 527 14 230	9 241 3 052 2 340 1 083 15 716	6 950 2 417 1 720 599 11 686	4 863 1 080 1 632 607 8 182	1 293 394 271 816 2 774	214 C 56 C 399	31 C 13 C 88	0 1 5 0 6	0 2 0 2 4	34 286 10 166 11 182 5 748 61 382
AUCKLAND WOOD SUPPLY REGION North Shore City Waitakere City Auckland City Manukau City Papakura District Franklin District Thames-Coromandel District Hauraki District Waikato District Matamata-Piako District Region total	0 0 240 12 147 11 0 306 1 717	0 0 958 0 354 96 87 1 032 10 2 537	0 1 0 824 3 815 158 651 1 425 61 3 938	0 2 0 842 20 1 193 721 847 1 887 282 5 794	0 0 75 0 1 197 830 479 622 32 3 235	0 0 376 29 360 1 138 40 335 10 2 288	0 0 41 15 16 345 C C 42 473	0 1 0 192 0 25 15 C C 1 244	0 0 10 0 6 0 0 0 0 16	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 1 8 0 0 0 0 9	0 4 0 3 558 79 4 108 3 328 2 109 5 626 439 19 251
CENTRAL NORTH ISLAND WOOD SUPPLY REGION Hamilton City Waipa District Otorohanga District South Waikato District Waitomo District Taupo District Taupo District Tauranga City Ruapehu District Western Bay of Plenty District Rotorua District Kawerau District Whakatane District Opotiki District Region total	0 0 534 37 11 003 0 3 568 3 152 0 1 427 277 17 001	0 12 841 364 1 610 12 147 9 1 419 495 3 697 0 4 615 526 25 735	0 272 272 860 4 060 11 955 26 3 710 2 361 5 491 0 11 828 681 41 516	0 139 638 2 201 3 528 5 165 32 2 279 3 805 2 882 0 10 208 436 31 313	0 33 98 8 189 688 10 272 16 2 185 2 973 4 437 0 6 898 3 106 38 895	0 17 167 3 266 420 6 604 0 2 096 748 1 205 0 6 136 2 171 22 830	0 2 56 C 2 187 0 288 110 146 0 1 126 449 4 487	0 0 3 C 66 0 0 7 23 0 147 0 261	0 0 6 0 22 0 0 2 10 0 41 0 81	0 0 0 0 0 0 0 0 0 0 3 0 0 0 0 3 3 0 0 0 3	0 0 0 0 0 0 0 0 0 0 1 0 0 0 1	$\begin{array}{c} 0\\ 475\\ 2\ 075\\ 15\ 508\\ 10\ 393\\ 59\ 421\\ 83\\ 11\ 980\\ 11\ 069\\ 21\ 047\\ 0\\ 42\ 426\\ 7\ 646\\ 182\ 123\\ \end{array}$
EAST COAST WOOD SUPPLY REGION Gisborne District Region total	5 958 5 958	13 817 13 817	25 335 25 335	33 953 33 953	14 856 14 856	12 754 12 754	2 452 2 452	250 250	15 15	20 20	1 1	109 411 109 411
HAWKE'S BAY WOOD SUPPLY REGION Wairoa District Hastings District Napier City Central Hawke's Bay District Region total	4 259 1 630 0 477 6 366	7 676 6 181 0 942 14 799	8 225 7 368 39 2 498 18 130	13 378 10 038 22 2 116 25 554	1 694 3 340 6 542 5 582	3 084 3 744 41 241 7 110	999 537 1 48 1 585	56 232 5 12 305	2 C 0 C 16	1 C 0 C 4	0 1 0 1 2	39 374 33 081 114 6 884 79 453
SOUTHERN NORTH ISLAND WOOD SUPPLY REGION New Plymouth District Stratford District South Taranaki District Wanganui District Rangitikei District Manawatu District Palmerston North City Horowhenua District Tararua District Kapiti Coast District Upper Hutt City Porirua City Wellington City Lower Hutt City Masterton District Carterton District South Wairarapa District Region total	52 9 16 1 508 48 43 186 151 22 70 648 0 0 0 1 922 797 123 5 595	247 107 360 1 367 419 199 1 91 656 95 781 55 8 10 2 648 552 625 8 221	457 370 699 2 004 4 461 235 12 102 681 234 665 18 30 2 5 803 3 832 1 719 21 324	442 1 966 2 183 6 159 1 829 974 299 676 1 001 765 392 408 253 24 7 625 1 602 1 990 28 588	171 229 665 2707 924 144 6 92 254 444 538 180 5 0 2055 946 452 9812	52 441 99 773 C 112 51 53 C C C C C 12 12 12 36 3 337 464 164 7 188	6 22 50 137 112 264 208 103 103 89 437 6 0 5 820 506 43 2 911	4 4 2 8 C 25 20 16 C 45 60 0 0 82 41 14 566	0 0 4 2 1 0 13 23 2 32 32 3 0 0 39 0 0 0 119	0 0 0 2 0 1 C 0 0 C 0 0 0 0 0 0 0 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 431 3 148 4 074 14 667 8 162 1 999 783 1 298 2 968 2 094 4 377 742 308 77 24 337 8 740 5 130 84 335
North Island total	38 302	70 741	124 473	140 918	84 066	60 352	14 682	2 025	335	44	17	535 955

>>> TABLE 9.17 CONTINUED...

					l	AGE CLASS YE	ARS					
TERRITORIAL AUTHORITY	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)	61–80 Years (HA)	TOTAL (HA)
NELSON AND MARLBOROUGH WOOD SUPPLY REGION												
Tasman District	411	1 433	5 460	6 753	3 441	2 310	366	18	12	0	1	20 205
Nelson City	62	18	175	480	337	525	60	1	0	0	0	1 658
Marlborough District	1 301	3 609	6 439	10 352	6 387	5 491	882	271	71	0	0	34 803
Kaikoura District	9	102	351	303	40	65	48	0	0	0	0	918
Region total	1 783	5 162	12 425	17 888	10 205	8 391	1 356	290	83	0	1	57 584
WEST COAST WOOD SUPPLY REGION												
Buller District	293	14	612	448	351	С	С	0	0	0	0	2 066
Grey District	566	71	255	544	14	С	С	3	53	0	0	1 618
Westland District	471	140	467	214	9	13	13	47	6	0	0	1 380
Region total	1 330	225	1 334	1 206	374	396	90	50	59	0	0	5 064
CANTERBURY WOOD SUPPLY REGION												
Hurunui District	79	497	1 759	1 504	487	644	249	62	14	3	1	5 299
Waimakariri District	11	86	95	525	89	58	5	0	3	0	0	872
Selwyn District	261	129	622	622	1 177	488	74	43	0	0	0	3 416
Christchurch City	176	282	702	1 839	272	345	65	52	1	0	1	3 735
Ashburton District	7	57	295	205	75	190	38	27	0	0	1	895
Mackenzie District	15	107	170	839	56	35	36	0	41	0	0	1 299
Timaru District	277	290	529	837	985	414	24	1	0	0	0	3 357
Waimate District	650	332	1 949	784	445	550	18	0	0	0	0	4 728
Region total	1 476	1 780	6 121	7 155	3 586	2 724	509	185	59	3	3	23 601
OTAGO AND SOUTHLAND WOOD SUPPLY REGION												
Waitaki District	295	2 175	2 851	1 462	1 088	561	80	48	35	12	5	8 612
Queenstown-Lakes District	0	0	3	3	11	0	2	0	3	0	1	23
Central Otago District	5	62	121	527	43	139	86	43	1	0	1	1 028
Dunedin City	1 0 3 0	705	1 226	2 005	2 397	1 514	149	17	22	0	0	9 065
Clutha District	3 938	6 381	9 571	12 369	4 129	4 1 27	919	141	25	5	5	41 610
Southland District	1 255	1 816	4 089	5 542	1 992	1 295	425	160	68	0	0	16 642
Gore District	0	5	130	234	24	139	0	0	1	0	0	533
Invercargill City	8	59	60	91	63	82	89	23	3	5	0	483
Region total	6 531	11 203	18 051	22 233	9 747	7 857	1 750	432	158	22	12	77 996
South Island total	11 120	18 370	37 931	48 482	23 912	19 368	3 705	957	359	25	16	164 245
New Zealand total	49 422	89 111	162 404	189 400	107 978	79 720	18 387	2 982	694	69	33	700 200

Note

1. Net stocked planted production forest area.



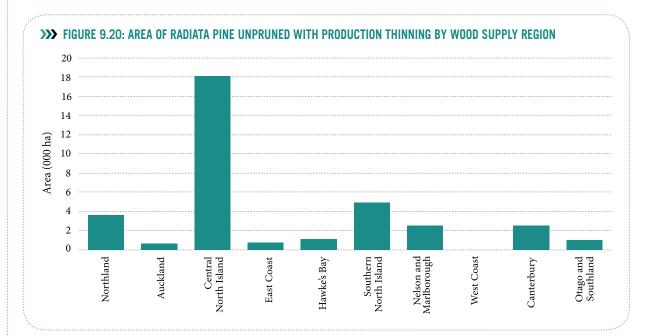
>>> TABLE 9.18: AREA¹ OF RADIATA PINE UNPRUNED WITH PRODUCTION THINNING BY TERRITORIAL AUTHORITY, AS AT 1 APRIL 2011

						AGE CLAS	SS YEARS					
TERRITORIAL AUTHORITY	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)	61–80 YEARS (HA)	TOTAL (HA)
NORTHLAND WOOD SUPPLY REGION Far North District Whangarei District Kaipara District Rodney District Region total	96 0 1 97	114 0 2 33 149	114 0 17 195 326	282 1 350 1 074 1 707	36 0 238 648 922	103 0 28 66 197	148 0 17 9 174	45 3 15 0 63	0 0 0 0 0	1 0 1 0 2	0 0 0 0 0	939 4 668 2 026 3 637
AUCKLAND WOOD SUPPLY REGION North Shore City Waitakere City Auckland City Manukau City Papakura District Franklin District Thames-Coromandel District Hauraki District Waikato District Matamata-Piako District Region total	0 0 0 0 9 0 0 0 0 0 9 0 0 0 9 9	0 0 0 0 43 0 0 0 43 43	0 0 0 16 72 0 3 0 91	0 0 0 251 99 0 111 0 361	0 0 0 0 43 0 0 0 43 43	0 0 0 0 0 23 0 0 0 0 23	0 0 0 0 106 0 0 0 0 106	0 0 0 0 0 17 0 0 0 0 17	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 4 0 0 0 0 0 4	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 271 412 0 14 0 14 0 697
CENTRAL NORTH ISLAND WOOD SUPPLY REGION Hamilton City Waipa District Otorohanga District South Waikato District Waitomo District Taupo District Tauranga City Ruapehu District Western Bay of Plenty District Rotorua District Kawerau District Whakatane District Opotiki District Region total	0 0 0 3 1 766 0 131 323 729 0 1 098 0 4 050	0 6 19 4 87 561 0 207 163 1113 0 1 237 12 3 409	0 44 8 9 292 521 0 803 208 443 0 537 12 2 877	0 24 53 20 398 446 0 683 169 150 0 588 2 2 533	0 0 2 977 0 1 094 50 0 0 130 0 2 255	0 0 11 0 2 248 0 72 130 41 0 212 221 2 935	0 0 8 0 7 20 0 37 2 0 0 0 0 0 0 7 4	0 0 0 4 0 2 0 0 0 0 0 0 0 6	0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 1	0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 1	0 0 0 0 0 0 0 0 0 0 1 0 0 0 1	0 74 101 33 789 6 544 0 3 029 1 045 2 478 0 3 802 247 18 142
EAST COAST WOOD SUPPLY REGION Gisborne District Region total	0 0	40 40	13 13	387 387	18 18	239 239	24 24	27 27	0 0	0 0	0 0	748 748
HAWKE'S BAY WOOD SUPPLY REGION Wairoa District Hastings District Napier City Central Hawke's Bay District Region total	0 0 0 0 0	8 6 0 1 15	68 61 0 23 152	299 525 0 8 832	0 11 0 7 18	38 5 0 15 58	0 35 0 3 38	0 5 0 1 6	0 2 0 0 2	0 0 0 0 0	0 0 0 0 0	413 650 0 58 1 121
SOUTHERN NORTH ISLAND WOOD SUPPLY REGION New Plymouth District Stratford District South Taranaki District Wanganui District Rangitikei District Manawatu District Palmerston North City Horowhenua District Tararua District Kapiti Coast District Upper Hutt City Porirua City Wellington City Lower Hutt City Masterton District Carterton District South Wairarapa District Region total	0 0 275 234 0 0 247 1 0 0 0 0 0 0 0 0 0 85 0 2 844	4 0 0 1 900 1 0 347 18 0 0 0 0 28 0 28 0 58 0 130 1 487	6 0 20 566 1 1 302 63 0 0 0 0 0 0 0 0 0 15 5 92 1071	73 0 12 226 111 10 41 279 154 10 0 0 0 0 0 0 0 30 3 3 4 983	0 0 80 18 0 0 5 19 0 0 0 8 10 16 0 10 166	0 0 3 79 C 55 0 14 C 0 0 0 0 0 0 54 14 3 6 246	0 0 0 6 0 0 1 5 0 0 0 0 0 0 0 0 1 8 2 0 3 3 5	0 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 2 13	0 0 0 1 0 0 14 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 2 0 0 22 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	83 0 17 681 1 841 67 42 1 233 284 10 0 0 0 36 82 220 11 279 4 886
North Island total	5 000	5 143	4 530	6 803	3 422	3 698	451	132	18	31	3	29 231

>>> TABLE 9.18 CONTINUED...

					AG	E CLASS YEAR	RS					
TERRITORIAL AUTHORITY	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)	61–80 YEARS (HA)	TOTAL (HA)
NELSON AND MARLBOROUGH WOOD SUPPLY REGION												
Tasman District	60	201	С	С	64	122	131	С	С	0	0	1 507
Nelson City	0	0	С	С	0	0	0	0	0	0	0	12
Marlborough District	57	57	184	319	99	65	151	С	С	0	0	988
Kaikoura District	0	0	1	5	0	0	0	0	0	0	0	6
Region total	117	258	488	938	163	187	282	55	25	0	0	2 513
WEST COAST WOOD SUPPLY REGION												
Buller District	0	0	0	0	0	0	0	0	0	0	0	0
Grey District	0	33	5	0	0	0	0	0	0	0	0	38
Westland District	0	0	0	0	0	0	4	0	0	0	0	4
Region total	0	33	5	0	0	0	4	0	0	0	0	42
CANTERBURY WOOD SUPPLY REGION												
Hurunui District	2	68	207	426	100	58	54	1	30	0	0	946
Waimakariri District	0	11	37	129	25	12	5	5	6	0	2	232
Selwyn District	0	118	262	138	12	6	19	4	0	0	1	560
Christchurch City	0	9	88	21	3	7	0	0	1	0	0	129
Ashburton District	1	2	26	26	С	С	7	30	0	0	0	157
Mackenzie District	111	22	22	23	С	С	19	17	24	0	0	267
Timaru District	0	1	6	71	18	22	4	0	0	0	0	122
Waimate District	0	1	28	46	10	2	2	1	1	0	0	91
Region total	114	232	676	880	246	123	110	58	62	0	3	2 504
OTAGO AND SOUTHLAND WOOD SUPPLY REGION												
Waitaki District	1	0	20	80	15	45	0	0	0	0	0	161
Queenstown-Lakes District	0	0	1	0	0	0	0	0	0	0	0	1
Central Otago District	0	0	0	3	0	0	0	0	0	0	0	3
Dunedin City	0	0	0	5	0	0	0	0	0	0	0	5
Clutha District	0	0	5	59	5	7	3	0	0	0	0	79
Southland District	65	106	158	157	78	15	57	10	51	0	0	697
Gore District	0 0	0	6 5	38 5	0 0	0	0	0	0	0	0	44
Invercargill City		1	-			0		0		-	0	11
Region total	66	107	195	347	98	67	60	10	51	0	0	1 001
South Island total	297	630	1 364	2 165	507	377	456	123	138	0	3	6 060
New Zealand total	5 297	5 773	5 894	8 968	3 929	4 075	907	255	156	31	6	35 291

Note
1. Net stocked planted production forest area.



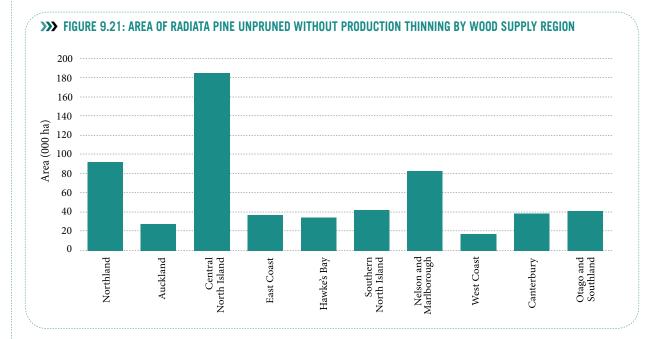
>>> TABLE 9.19: AREA¹ OF RADIATA PINE UNPRUNED WITHOUT PRODUCTION THINNING BY TERRITORIAL AUTHORITY, AS AT 1 APRIL 2011

						AGE CLAS	S YEARS					
	1–5	6–10	11-15	16–20	21-25	26-30	31-35	36-40	41-50	51-60	61-80	
TERRITORIAL AUTHORITY	YEARS (HA)	YEARS (HA)	YEARS (HA)	YEARS (HA)	YEARS (HA)	YEARS (HA)	YEARS (HA)	YEARS (HA)	YEARS (HA)	YEARS (HA)	YEARS (HA)	TOTAL (HA)
NORTHLAND WOOD SUPPLY REGION												
Far North District	6 913	5 791	3 911	3 670	4 626	8 260	534	548	61	1	0	34 315
Whangarei District	2 422	2 849	2 157	1 596	3 182	5 464	289	C	C	1	0	18 014
Kaipara District Rodney District	2 015 3 808	2 500 5 966	3 770 5 170	2 792 2 508	7 413 439	2 867 406	87 171	60 C	27 C	0 3	4 10	21 535 18 675
Region total	15 158	17 106	15 008	10 566	15 660	16 997	1 081	787	157	5	10	92 539
	15 150	17 100	15 000	10 500	15 000	10,557	1 001	, 0,				,2 33,
AUCKLAND WOOD SUPPLY REGION	0	0	0	0	0	0	0	0	0	0	0	0
North Shore City Waitakere City	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
Auckland City	0	0	0	0	0	0	0	0	0	0	0	0
Manukau City	0	130	121	957	140	8	30	0	0	0	0	1 386
Papakura District	0	0	0	0	20	0	66	29	0	0	0	115
Franklin District	0	35	128	243	69	172	4	0	4	0	4	659
Thames-Coromandel District Hauraki District	5 090 0	4 074 178	2 772 132	2 156 138	984 9	2 018 87	654 5	128 1	57 0	11 0	20 0	17 964 550
Waikato District	892	791	1 657	2 345	372	68	35	1	12	4	0	6 177
Matamata-Piako District	384	138	7	44	41	48	18	2	0	0	0	682
Region total	6 366	5 346	4 817	5 883	1 635	2 401	812	161	73	15	24	27 533
CENTRAL NORTH ISLAND WOOD SUPPLY REGION												
Hamilton City	0	0	0	0	0	0	0	0	0	0	0	0
Waipa District	0	14	124	115	18	6	25	0	0	0	2	304
Otorohanga District	0	264	642	612	68	137	4	15	0	0	0	1 742
South Waikato District	6 842	12 746	13 344	11 832	2 462	987	82	4	21	1	77	48 398
Waitomo District	3 284	2 336	1 236	1 263	163	367	96 260	0	0	0	0	8 745
Taupo District Tauranga City	3 682 0	11 553 0	14 137 0	9 117 0	3 558 0	3 558 0	269 0	44 0	46 0	12 0	7 0	45 983 0
Ruapehu District	1 836	1 926	10 803	2 817	2 186	3 023	998	19	1	0	0	23 609
Western Bay of Plenty District	1 167	2 006	1 388	622	1 140	170	35	2	4	0	7	6 541
Rotorua District	2 324	3 301	2 448	2 801	1 516	383	36	5	31	0	8	12 853
Kawerau District	0	0	0	0	0	0	0	0	0	0	0	0
Whakatane District Opotiki District	9 762 745	7 874 816	4 372 592	4 554 540	551 1 972	401 3 603	48 282	38 10	9 0	33 0	1 0	27 643 8 560
Region total	29 642	42 836	49 086	34 273	13 634	12 635	1 875	137	112	46	102	184 378
	2, 012	12 050	17 000	512/5	15 05 1	12 035	10/5	107			102	1013/0
EAST COAST WOOD SUPPLY REGION Gisborne District	3 693	6 689	9 381	6 857	3 018	5 597	1 153	893	58	3	6	37 348
Region total	3 693 3 693	6 689	9 381 9 381	6 857	3 018	5 597 5 597	1 155	893 893	58 58	3	6	37 348 37 348
	5 075	0.002	9 501	0 037	5018	5 597	1 155	095	50		U	37 340
HAWKE'S BAY WOOD SUPPLY REGION	1.020	1.555	2 207	1 220	22	2 000	120		11	2	0	10.227
Wairoa District Hastings District	1 938 5 165	1 555 6 034	2 307 5 191	1 238 2 859	23 232	3 009 627	139 219	4 82	11 C	3 C	0 0	10 227 20 458
Napier City	0	0 0 0 4	0	2 0 0 0 0	0	6	0	0	0	0	0	20 430
Central Hawke's Bay District	19	260	2 249	519	214	223	47	41	С	С	14	3 624
Region total	7 122	7 849	9 747	4 617	469	3 865	405	127	68	33	14	34 316
SOUTHERN NORTH ISLAND WOOD SUPPLY REGION												
New Plymouth District	0	90	153	246	49	21	19	23	0	0	0	601
Stratford District	336	349	199	478	32	361	8	0	0	0	0	1 763
South Taranaki District	5	314	419	881	288	186	68	24	18	3	1	2 207
Wanganui District	711	1 230	1 186	1 382	19	50	44	6	6	0	9	4 643
Rangitikei District Manawatu District	2 41	413 374	3 215 333	1 246 670	96 49	114 154	71 110	100 17	181 6	8 0		5 446 1 758
Palmerston North City	301	43	34	71	32	51	195	59	0	0	4 0	786
Horowhenua District	363	564	101	556	42	45	121	33	0	0	2	1 827
Tararua District	372	794	4 007	2 497	328	С	С	41	19	С	2	8 764
Kapiti Coast District	0	182	215	15	21	C	C	10	1	0	0	557
Upper Hutt City Porirua City	5 0	207 0	203 2	253 283	361 508	C 76	91 0	9 0	160 0	C 0	0 0	1 510 869
Wellington City	0	0	23	16	19	0	0	0	0	0	0	58
Lower Hutt City	0	0	2	26	0	7	18	5	0	0	0	58
Masterton District	368	1 162	1 196	2 011	442	564	275	199	156	9	0	6 382
Carterton District	165	608	1 236	616	160	150	48	86	70	4	0	3 143
South Wairarapa District	16	529	472	429	236	192	97	100	61	1	1	2 134
Region total	2 685	6 859	12 996	11 676	2 682	2 654	1 504	712	678	41	19	42 506
North Island total	64 666	86 685	101 035	73 872	37 098	44 149	6 830	2 817	1 146	143	179	418 620

>>> TABLE 9.19 CONTINUED...

						AGE CLAS	SS YEARS					
TERRITORIAL AUTHORITY	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)	61–80 Years (HA)	TOTAL (HA)
NELSON AND MARLBOROUGH WOOD SUPPLY REGION												
Tasman District	14 153	12 860	7 298	9 415	3 802	2 864	643	117	156	15	13	51 336
Nelson City	2 170	1 533	1 1 2 1	1 186	280	256	0	11	1	0	0	6 558
Marlborough District	5 295	3 963	4 477	6 671	1 607	1 589	678	279	120	27	2	24 708
Kaikoura District	0	23	32	26	2	20	6	0	1	2	0	112
Region total	21 618	18 379	12 928	17 298	5 691	4 729	1 327	407	278	44	15	82 714
WEST COAST WOOD SUPPLY REGION												
Buller District	6	176	91	114	7	С	С	3	4	0	0	522
Grey District	1 588	2 593	1 778	1 312	623	С	С	68	89	0	0	10 313
Westland District	1 1 3 1	934	2 117	1 006	403	346	325	122	15	1	0	6 400
Region total	2 725	3 703	3 986	2 4 3 2	1 033	2 500	554	193	108	1	0	17 235
CANTERBURY WOOD SUPPLY REGION												
Hurunui District	1 981	4 1 3 9	5 487	3 903	2 909	1 357	111	5	6	8	6	19 912
Waimakariri District	495	1 011	2 4 4 6	2 320	1 409	312	58	11	15	36	0	8 1 1 3
Selwyn District	284	498	759	998	278	346	149	342	23	2	0	3 679
Christchurch City	107	153	483	451	257	132	170	51	5	1	22	1 832
Ashburton District	278	272	311	174	50	115	115	11	8	6	14	1 354
Mackenzie District	39	31	76	221	27	12	5	40	14	2	0	467
Timaru District	58	76	343	775	230	49	10	0	11	0	0	1 552
Waimate District	4	269	518	347	251	534	95	28	22	24	5	2 097
Region total	3 246	6 449	10 423	9 189	5 411	2 857	713	488	104	79	47	39 006
OTAGO AND SOUTHLAND WOOD SUPPLY REGION												
Waitaki District	311	609	594	758	268	371	50	29	18	12	2	3 0 2 2
Queenstown-Lakes District	0	10	14	24	12	5	13	0	1	20	6	105
Central Otago District	0	95	133	311	23	35	34	4	8	4	32	679
Dunedin City	226	35	95	421	180	706	251	5	10	13	1	1 943
Clutha District	1 884	4 291	3 308	2 215	850	975	289	63	10	10	5	13 900
Southland District	2 127	4 702	4 387	4 400	2 258	2 4 4 4	331	127	92	16	0	20 884
Gore District	6	46	389	376	32	23	24	6	20	1	0	923
Invercargill City	0	4	33	17	14	31	8	0	4	0	0	111
Region total	4 554	9 792	8 953	8 522	3 637	4 590	1 000	234	163	76	46	41 567
South Island total	32 143	38 323	36 290	37 441	15 772	14 676	3 594	1 322	653	200	108	180 522
New Zealand total	96 809	125 008	137 325	111 313	52 870	58 825	10 424	4 1 3 9	1 799	343	287	599 142

Note
1. Net stocked planted production forest area.



APPENDIX 1: GLOSSARY

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 2011 if it was planted in the preceding 12-month period, that is, between 1 April 2010 and 31 March 2011.

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 does not meet the confidentiality criteria and one of the contributors to the confidential number is not prepared to waive the confidentiality rules then that number is not published.

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 and/or has been fertilised.
- "Unimproved pasture" is land with no improved pasture species that has not been fertilised.
- "Other woody land" is land predominantly covered in species such as bracken, gorse, manuka, kanuka 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: 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.

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 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.

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

Rotation number:

- The first rotation is stands 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 volume (in cubic metres) of wood contained in all live crop stems of all age classes. The standing volume includes some non-recoverable volume such as stumps and the non-merchantable tops of stems, but excludes bark.

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.

Radiata pine has four tending regime categories, Douglasfir has two, and other softwoods and hardwoods are not assigned a tending regime.

The radiata pine tending regime categories are:

- pruned with production thinning;
- pruned without production thinning;
- unpruned with production thinning;
- unpruned without production thinning.

The Douglas-fir tending regime categories are:

- with production thinning;
- without production thinning.

"Pruned" refers to pruning carried out before age 12 so that more than 50 percent of the stems in the planned final crop stocking will contain a pruned butt log of not less than four metres in length.

"Production thinning" refers to the extraction of thinnings for commercial use. Stands that have been production thinned produce a smaller clear fell volume than stands that have not been production thinned. **Territorial authority:** District and city council areas adopted in October 1989 (see Table 7.1 and Figures 7.1 and 7.2 on pages 14–17).

TRVIB: Total recoverable volume inside bark. This is the volume of wood recovered during harvesting, excluding bark, expressed in cubic metres.

Wood supply region: Zones in New Zealand where forest stands of the same species and tending regime are represented by the same generalised yield table. These regions reflect wood supply processing catchments, and reconcile with aggregates of territorial authorities. Ten regions were identified by the NEFD Steering Committee in 1989 (see Table 7.1 and Figures 7.1 and 7.2 on pages 14–17).

Yield table: A tabular representation of forest yield in cubic metres per hectare. The yield table is expressed in terms of total standing volume, total recoverable volume and three log type volumes, together with any production thinning volumes by age (one to 80 years). There is a separate yield table for each crop type.

APPENDIX 2: 2011 NEFD QUESTIONNAIRE

SE	CTION	A: FORES	T OWNER	RSHIP				
Note the owner, and the owner,	privately local go state ow at the followin and to follow	up any apparent problem	section does not g	o into any publicati ata is correct. This	registered po central gove other (please n, but is used on s important when	ublic company rnment specity)		ent
Give Nan New Nan Terr	NO • YES • details of t me of new o e owner's a me of forest ritorial auth	Go to question 3. What did your en osold forest of he new owner, the wmer ddress	terprise sell? (b) only (e forest location and is located	ick one circle only sold land o	nly (010 to 31 March 20		
detail Nam Prev Nam Terr or le Area	Is of the previous owner ne of forest ritorial auth cased is loca a of forest p	evious owner, the ous owner r's address /land purchased or ority where forest/ nted ourchased or leased	forest/land los r leased land purchased d (hectares)	cation and the	area purchase	d or leased:	to 31 March 2011, plea	
to 31 pleas Lan Lan Nan Terr	March 201 e give deta d owner's r d owner's a ne of land	11 and another pa ils of the other pa iame ddress sority where land i	rty will now be rty and land ar	responsible fo	r future use o	f the land (e.g. you	ig the period 1 April 2 have handed back the	
> INST his quest Please r Please r If you h Section MAF n a forest o Te	RUCTIONS tionnaire or review and note that se have forest i eeds forest area owne rritorial au	ontains one or mor update the enclose cond and subseque area that is not incl data split by forest	e pages pre-pri d pre-printed p ent rotation for uded on the pr species, tendin , please use a se forest is located	nted with the fo pages. If there h ests need to be e-printed pages g regimes, rotal sparate copy of t	rest area by a as been no cha recorded on a , please provic ion and locati he blank form o	ge data your enterpr ange, you need only separate form to firs de this information u ion. If any one of the	ising the blank form at following attributes is <mark>n B</mark> for that forest area	page. the en differe

Additional blank forms are available from Survey Support on 0800 778 901 or email NEFD@maf.govt.nz. Alternatively, photocopy the blank form at the end of Section B – Blank area by age data form.

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> Contact survey support 0800 778 901

	SECTIO	N B CON	TINUED: A	REA BY A	ge data	AS AT 1	APRIL 20	11 – BL	ANK FOR	RM		
	Please con Survey Sup	plete the fo	llowing question 0 778 901 or 0		cannot give .govt.nz.	only one answ	LUDED O ver for each ques level.					
1.	Territori	al author	ity where t	he forest is lo	ocated:							
2.	Forest of	wner's na	me									
3.	Rotation	number	(tick one circ	le only]								
-	-	t rotation	form one and	-	ond or su	bsequent re	otation					
4.	Species	tick one cir	cle only)									
	in i		so to 5.	O De	uglas-fir (• go to 6.	0 91	press spec	ies • go to	7.		
	O oth	er softwo	ods • go to	7. Ö eu	calyptus .	go to 7.	O ot	her hardw	oods • go	to 7.		
5.	Radiata	pine tend	ing regime	or intende	d tending	regime (fic	k one circle on	ly)				
	O pru	med with		O pro	aned with	OUT	O un	pruned w			runed wit	
	pro pro	duction t	hinning	- pro	aduction t	hinning	pn pn	oduction	thinning	- pro	duction th	unning
6.	-						one circle only	}				
	() wit	h product	ion thinnin	ig () wit	thOUT pr	oduction th	inning					
7.	As at 1 A	pril 2011	give the are	ea in hectare	s of trees of	of each age,	and the total	l area. He	ctares may	be given to o	one decim	al point.
	year planted	age in 2011	net area (ha)	year planted	age in 2011	net area (ha)	year planted	age in 2011	net area (ha)	year planted	age in 2011	net area (ha)
	2010	1		1989	22		1968	43		1947	64	
	2009	2		1988	23		4.4.4.4	44		1946	65	
	2008						1967	44		1940		
		3		1987	24		1967 1966	44		1945	66	
	2007	3		1987 1986	24 25						66 67	
_							1966	45		1945		
	2007	4		1986	25		1966 1965	45 46		1945 1944	67	
	2007 2006	4 5 6 7		1986 1985 1984 1983	25 26 27 28		1966 1965 1964	45 46 47 48 49		1945 1944 1943	67 68 69 70	
	2007 2006 2005 2004 2003	4 5 6 7 8		1986 1985 1984 1983 1982	25 26 27 28 29		1966 1965 1964 1963 1962 1961	45 46 47 48 49 50		1945 1944 1943 1942 1941 1940	67 68 69 70 71	
	2007 2006 2005 2004 2003 2002	4 5 6 7 8 9		1986 1985 1984 1983 1982 1981	25 26 27 28 29 30		1966 1965 1964 1963 1962 1961 1960	45 46 47 48 49 50 51		1945 1944 1943 1942 1941 1940 1939	67 68 69 70 71 72	
	2007 2006 2005 2004 2003 2002 2002 2001	4 5 6 7 8 9 10		1986 1985 1984 1983 1982 1981 1980	25 26 27 28 29 30 31		1966 1965 1964 1963 1962 1961 1960 1959	45 46 47 48 49 50 51 52		1945 1944 1943 1942 1941 1940 1939 1938	67 68 69 70 71 72 73	
	2007 2006 2005 2004 2003 2002 2002 2001 2000	4 5 7 8 9 10 11		1986 1985 1984 1983 1982 1981 1980 1979	25 26 27 28 29 30 31 32		1966 1965 1964 1963 1962 1961 1960 1959 1958	45 46 47 48 49 50 51 51 52 53		1945 1944 1943 1942 1941 1940 1939 1938 1937	67 68 69 70 71 72 73 73 74	
	2007 2006 2005 2004 2003 2002 2002 2001 2000 1999	4 5 6 7 8 9 10 11 11 12		1986 1985 1984 1983 1982 1981 1980 1979 1978	25 26 27 28 29 30 31 32 33		1966 1965 1964 1963 1962 1961 1960 1959 1958 1957	45 46 47 48 49 50 51 52 53 53 54		1945 1944 1943 1942 1941 1940 1939 1938 1937 1936	67 68 69 70 71 72 73 74 75	
	2007 2006 2005 2004 2003 2002 2001 2000 1999 1998	4 5 6 7 8 9 10 11 11 12 13		1986 1985 1984 1983 1982 1981 1980 1979 1978 1977	25 26 27 28 29 30 31 32 33 33 34		1966 1965 1964 1963 1962 1961 1960 1959 1958 1957 1956	45 46 47 48 49 50 51 52 53 54 55		1945 1944 1943 1942 1941 1940 1939 1938 1937 1936 1935	67 68 69 70 71 72 73 74 75 76	
	2007 2006 2005 2004 2003 2002 2001 2000 1999 1998 1997	4 5 6 7 8 9 10 11 11 12 13 14		1986 1985 1984 1983 1982 1981 1980 1979 1978 1977 1976	25 26 27 28 29 30 31 32 33 33 34 35		1966 1965 1964 1963 1962 1961 1960 1959 1958 1957 1956 1955	45 46 47 48 49 50 51 51 52 53 53 54 55 56		1945 1944 1943 1942 1941 1940 1939 1938 1937 1936 1935 1934	67 68 69 70 71 72 73 74 75 76 77	
	2007 2006 2005 2004 2003 2002 2001 2000 1999 1998 1997 1996	4 5 6 7 8 9 10 11 12 13 14 15		1986 1985 1984 1983 1982 1981 1980 1979 1978 1977 1976 1975	25 26 27 28 29 30 31 32 33 34 35 36		1966 1965 1964 1963 1962 1961 1960 1959 1958 1957 1956 1955 1955	45 46 47 48 49 50 51 52 53 54 55 55 56 57		1945 1944 1943 1942 1941 1940 1939 1938 1937 1936 1935 1934 1933	67 68 69 70 71 72 73 74 75 76 77 78	
	2007 2006 2005 2004 2003 2002 2001 2000 1999 1998 1997 1996 1995	4 5 6 7 8 9 10 11 11 12 13 14 15 16		1986 1985 1984 1983 1982 1981 1980 1979 1978 1977 1976 1975 1974	25 26 27 28 29 30 31 32 33 34 35 36 37		1966 1965 1964 1963 1962 1961 1960 1959 1958 1957 1956 1955 1954 1953	45 46 47 48 49 50 51 52 53 54 55 56 55 56 57 58		1945 1944 1943 1942 1941 1940 1939 1938 1937 1936 1935 1935 1934 1933 1932	67 68 69 70 71 72 73 74 75 76 77 76 77 78 79	
	2007 2006 2005 2004 2003 2002 2001 2000 1999 1998 1998 1995 1995	4 5 6 7 8 9 10 11 12 13 14 15 16 17		1986 1985 1984 1983 1982 1981 1980 1979 1978 1977 1976 1975 1974 1973	25 26 27 28 29 30 31 32 33 34 35 36 37 38		1966 1965 1964 1963 1962 1961 1960 1959 1958 1957 1956 1955 1954 1953 1952	45 46 47 48 49 50 51 52 53 54 55 55 56 57 58 59		1945 1944 1943 1942 1941 1940 1939 1938 1937 1936 1935 1934 1933	67 68 69 70 71 72 73 74 75 76 77 78	
	2007 2006 2005 2004 2003 2002 2001 2000 1999 1998 1997 1996 1995 1994 1993	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18		1986 1985 1984 1983 1982 1981 1980 1979 1978 1977 1976 1975 1974 1973 1972	25 26 27 28 29 30 31 32 33 34 35 36 37 38 39		1966 1965 1964 1963 1962 1961 1960 1959 1958 1957 1956 1955 1954 1953 1952 1951	45 46 47 48 49 50 51 52 53 54 55 55 55 55 56 57 58 59 60		1945 1944 1943 1942 1941 1940 1939 1938 1937 1936 1935 1935 1934 1933 1932 1931 or	67 68 69 70 71 72 73 74 75 76 77 76 77 78 79	
	2007 2006 2005 2004 2003 2002 2001 2000 1999 1998 1998 1995 1995	4 5 6 7 8 9 10 11 12 13 14 15 16 17		1986 1985 1984 1983 1982 1981 1980 1979 1978 1977 1976 1975 1974 1973	25 26 27 28 29 30 31 32 33 34 35 36 37 38		1966 1965 1964 1963 1962 1961 1960 1959 1958 1957 1956 1955 1954 1953 1952	45 46 47 48 49 50 51 52 53 54 55 55 56 57 58 59		1945 1944 1943 1942 1941 1940 1939 1938 1937 1936 1935 1935 1934 1933 1932 1931 or	67 68 69 70 71 72 73 74 75 76 77 76 77 78 79	

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Territorial authority in w Planting for the year end Species	led 31 December 2010 New planted area f Give the area plante				
Species	New planted area f Give the area plante	5			
	Give the area plante	ine wave and	ed Dec 2010	Area confacted for your	rended Dec 2010
Padiata piga	for growing comme	ed on a site r	iot already in use		
Radiata piga	(i.e. first rotation fo	rest).			
Radiata pine			hi	-	h
Douglas-fir			ha	-	h
Cypress species Other softwoods			hi		h
Eucalypts species			ha		h
Other hardwoods			h		h
Total			ha		h
Other woody land Unimproved pasture Improved pasture Total new planted area Harvesting for the year e		ha ha ha	land vot fertilised, wi land that has been fer Note this total should	overed in bracken, gorse, manuk ih no improved pasture species s tillised and contains improved p tillised and contains improved p be the same as the total new pla	iown asture species
Unimproved pasture Improved pasture Total new planted area Harvesting for the year e		ha ha ha Note that 1 ton	land not fertilised, wi land that has been fer Note this total should ne = about 1m ³ . Ied volume	th no improved pasture species : tillised and contains improved p	iown asture species
Unimproved pasture Improved pasture Total new planted area Harvesting for the year e	nded 31 March 2011:	ha ha ha Note that 1 ton Clear fel (recover	land not fertilised, wi land that has been fer Note this total should ne = about 1m ³ . Ied volume	th no improved pasture species s tillised and contains improved p be the same as the total new pla Average age clear felled	own wature species anted area in question <u>F</u> Production thinning
Unimproved pasture Improved pasture Total new planted area Harvesting for the year e Species Ar	nded 31 March 2011: rea clear felled	ha ha ha Note that 1 ton Clear fel (recover	land not fertilised, wi land that has been fer Note this total should ne = about 1m ² . Ied volume ed)	th no improved pasture species s tillised and contains improved p be the same as the total new pla Average age clear felled (area-weighted)	eren enture species ented eren in question J Production thinning volume (recovered)
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APPENDIX 3: NEW PLANTING IMPUTATION METHODOLOGY

Since 1992, MAF 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 new planting is 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. The methodology was reviewed in 2003 (Manley *et al*, 2003).

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 2010 calendar years because of the very low levels of new forest planting that took place in those years.

Table 3.1 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 from the new planting collected in the postal survey. See Table 9.7 (page 26–27).

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 2011 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.

APPENDIX 4: THE NEFD STEERING COMMITTEE

The NEFD Steering Committee has been constituted by the New Zealand Forest Owners Association and the Ministry of Agriculture and Forestry to oversee the preparation of each edition of the National Exotic Forest Description. Members of the Steering Committee during the preparation of this report were:

Fiona Thomson

Ministry of Agriculture and Forestry

The Steering Committee's terms of reference are included in Appendix 5.

Ministry of Agriculture and Forestry

MEMBER NOMINATED BY Alan Bell Alan Bell & Associates New Zealand Forest Owners Association Philip Elworthy New Zealand Forest Owners Association Rayonier New Zealand Ltd Stuart Anderson Ministry of Agriculture and Forestry Ministry of Agriculture and Forestry Chris Goulding SCION Ministry of Agriculture and Forestry Ian Hinton (Chairman) Timberlands Ltd New Zealand Forest Owners Association Ross Iones Hancock Forest Management New Zealand Forest Owners Association Paul Lane Ministry of Agriculture and Forestry Ministry of Agriculture and Forestry Hamish Levack Farm Forestry Association Ministry of Agriculture and Forestry Jane Davidson Ministry of Agriculture and Forestry Ministry of Agriculture and Forestry Bruce Manley School of Forestry, University of Canterbury Ministry of Agriculture and Forestry Peter Oliver **City Forests** New Zealand Forest Owners Association John Novis Ministry of Agriculture and Forestry Ministry of Agriculture and Forestry Guy Sanders Statistics New Zealand Ministry of Agriculture and Forestry Alice Marfell-Jones Ministry of Agriculture and Forestry Ministry of Agriculture and Forestry

APPENDIX 5: THE NEFD STEERING COMMITTEE'S TERMS OF REFERENCE

The New Zealand Forest Owners Association and the Ministry of Agriculture and Forestry have agreed that the Steering Committee shall:

- produce a 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. This strategic plan needs to be
 submitted through the Director-General of Agriculture
 and Forestry and the Board of the New Zealand Forest
 Owners Association.
- prepare an annual work plan and budget 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. This work plan is to be submitted through the Director-General of Agriculture and Forestry to the Board of the New Zealand Forest Owners Association by 31 May of each year (Review and approval by the Director-General and the Board are required by 30 June of that year).
- prepare an annual report reviewing the year's work and achievements. This report is to be submitted to the Director-General of Agriculture and Forestry and to the Board of the New Zealand Forest Owners Association by 31 July each year.
- monitor user satisfaction with the NEFD outputs through the use of client surveys and through direct discussion with user representatives.
- advise the Ministry of Agriculture and Forestry Senior Management Team and the Forest Owners Association Board of any significant issues that the Steering Committee is unable to resolve.

- oversee the preparation of each edition of the *National Exotic Forest Description.*
- commission forecasts of future wood supply from New Zealand's planted production forests.
- ensure that all users are able to subscribe to NEFD reports on an equitable basis, with no barriers to access.
- advertise and promote the availability of NEFD reports.
- sponsor research by suitable bodies to improve the quality of NEFD information.

APPENDIX 6: REFERENCES

AgriQuality New Zealand (2005) *Small Forest Grower Survey Report.*

Eyre, J (1995) Predicting and Measuring New Planting from Nursery Surveys. *New Zealand Journal of Forestry*, August 1995, pp 45–46.

Manley B; Somerville O; Turbitt M; Lane P (2003) Review of New Planting Estimates. *New Zealand Journal of Forestry*, November 2003, pp 34–37.

Manley, B (2011) *2010 Deforestation Survey.* University of Canterbury. http://www.maf.govt.nz/news-resources/ publications.

Ministry of Agriculture and Forestry (2010) *National Exotic Forest Description as at 1 April 2009.*

Ministry of Agriculture and Forestry (2011) *Annual Log and Roundwood Removal Statistics*. http://www.maf.govt. nz/news-resources/statistics-forecasting/forestry/ annual-log-and-roundwood-removal-statistics.aspx Ministry of Forestry (1996) A National Exotic Forest Description as at 1 April 1995.

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New Zealand Forest Owners Association (2010) New Zealand Forest Industry Facts & Figures 2009/2010.

Statistics New Zealand (2009) 2007 Agricultural Production Census. http://www.stats.govt.nz/browse_for_ stats/industry_sectors/agriculture/ agriculturalproduction_hotpjun07final.aspx

Statistics New Zealand (2010) 2010 Agricultural Production Survey. http://www.stats.govt.nz/browse_for_ stats/industry_sectors/agriculture-horticulture-forestry/ agriculturalproduction_hotpjun10prov.aspx

APPENDIX 7: FURTHER INFORMATION

The area data and yield tables and additional information are available from: Information and Analysis Ministry of Agriculture and Forestry PO Box 2526 Wellington, 6140

Telephone:	0800 008 333
Facsimile:	64-4-894 0741
Email:	stats_info@maf.govt.nz

An electronic copy of this report is available on the New Zealand Ministry of Agriculture and Forestry's internet site: http://www.maf.govt.nz. The tables from this electronic report can be downloaded directly into Microsoft Excel.

Area and yield data are available from the NEFD dataset for any combination of territorial authority area, species, silvicultural regime and age class. The Ministry of Agriculture and Forestry will provide such data on request, subject to its standard charging procedures. This information can be provided electronically or in printed form.

For reasons of confidentiality, data on the resources of individual forest growers and data at a lower level of resolution than that published in this report will not be released without the prior written consent of the forest owner(s) concerned.

The Ministry of Agriculture and Forestry welcomes any comments on the presentation of this report. These can be directed to the Information and Analysis unit, based at the Wellington address above.