



PROVISIONAL ESTIMATES OF TREE STOCK SALES AND FOREST PLANTING IN 2012

PURPOSE

This report provides the provisional estimates of the sales of tree stocks and the areas of forest planted in 2012.

PROVISIONAL ESTIMATES

The provisional estimates are based on returns from 28 of the 29 forestry nurseries covered by this annual survey. The previous year's data have been used for the residual nursery. The results will be revised when/if the remaining return is received, but this is not expected to cause significant changes to the estimates recorded below.

BACKGROUND

Each spring the Ministry for Primary Industries (MPI) undertakes a survey of tree stock sales from commercial forestry nurseries. This information is then used in a model to generate estimates of planting by species or species groups, and a total area planted.

TREE STOCK SALES

Tree stock sales reported in 2012 totalled 72.5 million seedlings compared to 67.6 million seedlings sold in 2011. Breakdowns by species and species groups, and sales since 2005, are provided in Table 1.

Table 1: Tree stock sales from 2005 to 2012 (millions)

	2005	2006 ¹	2007	2008	2009	2010	2011	2012 ^p
Radiata pine	32.6	28.8	36.7	36.2	37.7	46.4	58.9	64.6
Douglas-fir	4.1	2.8	2.9	2.3	3.0	3.6	5.1	4.0
Other softwoods	1.7	1.8	1.7	1.5	1.5	1.3	1.3	1.3
All hardwoods	0.7	0.6	1.1	1.2	1.0	1.9	2.3	2.6
TOTAL	39.1	34.0	42.4	41.2	43.2	53.2	67.6	72.5

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Note

1. Reported tree stock sales in 2006 were too low to support the NEFD reported area of planting for that year.

RADIATA PINE

Annual radiata pine tree stock sales by categories are shown in Table 2.

Table 2: Radiata Pine tree stock sales from 2003 to 2012 (millions)

Year	GF < 14	GF 14–19	GF > 19	Cuttings	GF Plus	Total ¹
2003	0.1	14.6	7.6	14.0	11.2	47.4
2004	less than 0.1	13.8	4.8	16.0	8.8	43.5
	GF < 14	GF 14–19	GF > 19	Cuttings/clones		
2005	less than 0.1	9.0	10.6	12.9		32.6
2006 ²	less than 0.1	7.6	11.3	9.9		28.8
2007	0.1	11.2	17.2	8.1		36.7
2008	0.3	11.7	15.4	8.8		36.2
2009	0.2	10.9	17.0	9.6		37.7
	GF < 14	GF 14–19	GF > 19	Cuttings/clones	Stand Select	
2010	1.1	17.6	13.2	12.6	1.9	46.4
2011	0.4	16.1	16.8	13.4	12.2	58.9
2012	0.7	15.1	20.3	11.9	16.6	64.6

Notes

1. If the total does not equal the sum of the component cells it is due to rounding of each cell to the nearest 100 000.
2. Reported tree stock sales in 2006 were too low to support the NEFD reported area of planting for that year.

The percentages of the estimated areas planted with radiata pine tree stocks with a Growth and Form (GF) rating of 20 or more and with a GF rating of 19 or less (and Stand Select) are provided in Table 3.

Table 3: Estimated percentage of total area of Radiata Pine planting by GF Category

Radiata pine GF Rating	2005	2006	2007	2008	2009	2010	2011	2012
Seedlings ≤ GF19	23	26	31	31	28	441	491	48 ^p
Seedlings/cuttings ≥ GF20	77	74	69	69	72	56	51	52

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Note

1. Includes Stand Select.

FOREST PLANTING

The total area of forest planting in the winter of 2012 is provisionally estimated by the nursery survey-based model to be 64 000 hectares.

Table 4: Total areas planted in 2012 by species and species groups

Species/species group	Area (hectares) ¹	Percentage of total area
Radiata pine	59 000	92
Douglas-fir	2 000	3
Other exotic softwoods	less than 1 000	1
All exotic hardwoods	2 000	3
TOTAL	64 000	992

Notes

1. The estimated areas in Table 4 have been rounded to the nearest 1000 hectares or recorded as less than 1000 hectares where the area is between 1 and 999 hectares.
2. Rounding error.

From a separate survey of large-scale forest owners, combined with information from the Afforestation Grant Scheme and the East Coast Forestry Project, it is provisionally estimated that there were 18 500 hectares of new planting in 2012 (rounded up to 19 000 hectares in Table 5).

Replanting of harvested areas is provisionally estimated to be 45 500 hectares in 2012 (rounded down to 45 000 hectares in Table 5). This is the residual area from the estimated total area of planting (64 000 hectares) minus the estimated area of new planting (18 500 hectares).



The total areas of new planting and replanting allocated by species and species groups for 2012 and 2011 are provided in Table 5. These allocations are based on the estimated percentage of total planting accounted for by each species or species group.

Table 5: Estimated areas¹ of new planting and replanting for 2011 and 2012

	New Planting (hectares)		Replanting (hectares)	
	2011	2012 ^p	2011 ^r	2012 ^p
Radiata pine	11 000	17 000	35 000	41 000
Douglas-fir	less than 1 000	less than 1,000	2 000	1 000
Other exotic softwoods	less than 1 000	less than 1,000	less than 1 000	less than 1 000
All exotic hardwoods	less than 1 000	less than 1,000	1 000	1 000
TOTAL²	12 000	19 000	39 000³	45 000

p Provisional.

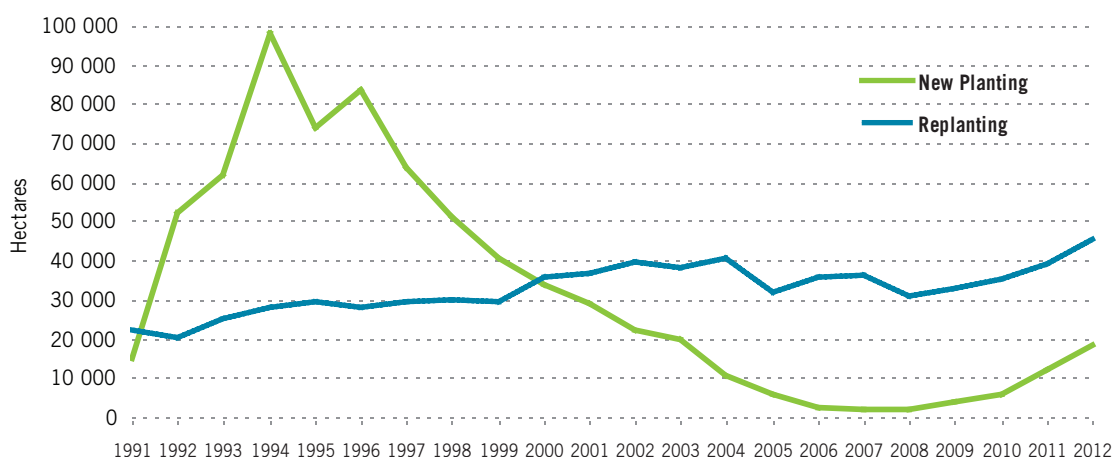
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Notes

1. The estimated areas in Table 5 are either rounded to the nearest 1000 hectares or recorded as less than 1000 hectares where they are between 1 and 999 hectares.
2. The sums of the component areas do not necessarily equal the total areas as a result of rounding to the nearest 1000 hectares or recording as less than 1000 hectares.
3. The 2011 estimate of replanting has been revised on the basis of the 2012 NEFD survey from 48 000 hectares to 39 000 hectares.

Figure 1 provides a visual outline of the estimated areas of new planting and replanting since 1991.

Figure 1: Estimated areas of new planting and replanting



LOOKING TOWARDS 2013

The 2012 nursery survey asked nursery managers whether they expect sales in 2013 to be similar to, lower or higher than, 2012. Of the 19 nurseries that responded, nine indicated that they expect sales to be lower, eight indicated they expect sales to be at similar levels, and two indicated they expect sales to be higher in 2013. The nurseries that indicated lower sales were generally large-scale producers, suggesting a significant decrease in national seedling sales in 2013.

REVIEW OF PLANTING ESTIMATES IN 2013

The nursery survey and the associated modelling are only intended to provide early approximations of the areas of total planting and planting by species or species groups for the year. These are subsequently reviewed and revised as necessary when data are received directly from forest owners through the annual survey for the National Exotic Forest Description (NEFD).

ACKNOWLEDGEMENTS

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FOR MORE INFORMATION

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