Ministry for Primary Industries
Manatū Ahu Matua

PROVISIONAL ESTIMATES OF TREE STOCK SALES AND FOREST PLANTING IN 2013

PURPOSE

This report provides the provisional estimates of the sales of tree stocks and the areas of forest planted in 2013.

PROVISIONAL ESTIMATES

The provisional estimates are based on returns from all 29 forestry nurseries covered by this annual survey.

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 2013 totalled 54.1 million seedlings, compared to 72.5 million seedlings sold in 2012. Breakdowns by species and species groups, and sales since 2006, are provided in Table 1.

Table 1: Tree stock sales from 2006 to 2013 (millions)

	2006[1]	2007	2008	2009	2010	2011	2012	2013p
Radiata pine	28.8	36.7	36.2	37.7	46.4	58.9	64.6	48.5
Douglas-fir	2.8	2.9	2.3	3.0	3.6	5.1	4.0	3.1
Other softwoods	1.8	1.7	1.5	1.5	1.3	1.3	1.3	0.7
All hardwoods	0.6	1.1	1.2	1.0	1.9	2.3	2.6	1.9
TOTAL	**34.0**	**42.4**	**41.2**	**43.2**	**53.2**	**67.6**	**72.5**	**54.1[2]**

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Notes

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

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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 2013 (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
	Stand Select	**GF < 14**	**GF 14–19**	**GF > 19**	**Cuttings/clones**		
2010	1.9	1.1	17.6	13.2	12.6		46.4
2011	12.2	0.4	16.1	16.8	13.4		58.9
2012	16.6	0.7	15.1	20.3	11.9		64.6
2013	9.9	less than 0.1	9.1	17.1	12.3		48.5

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	2006	2007	2008	2009	2010	2011	2012	2013[p]
Seedlings ≤ GF19	26	31	31	28	44[1]	49[1]	48[1]	38[1]
Seedlings/cuttings ≥ GF20	74	69	69	72	56	51	52	62

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Note

1. Includes Stand Select.

FOREST PLANTING

The total area of forest planting in the winter of 2013 is provisionally estimated by the nursery survey-based model to be 49 000 hectares.

Table 4: Total areas planted in 2013 by species and species groups

Species/species group	Area (hectares)[1]	Percentage of total area
Radiata pine	45 000	92
Douglas-fir	2 000	4
Other exotic softwoods	less than 1 000	1
All exotic hardwoods	1 000	3
Total	**49 000**	**100**

Note

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.

From a separate survey of large-scale forest owners, combined with information from the East Coast Forestry Project, it is provisionally estimated that there were 4500 hectares of new planting in 2013 (rounded down to 4000 hectares in Table 5).

Replanting of harvested areas is provisionally estimated to be 44 500 hectares in 2013 (rounded up to 45 000 hectares in Table 5). This is the residual area from the estimated total area of planting (49 000 hectares) minus the estimated area of new planting (4500 hectares).

The total areas of new planting and replanting allocated by species and species groups for 2013 and 2012 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 areas[1] of new planting and replanting for 2012 and 2013

	New Planting (hectares)		Replanting (hectares)	
	2012[r]	2013[p]	2012	2013[p]
Radiata pine	11 000	4 000	41 000	41 000
Douglas-fir	less than 1 000	less than 1 000	1 000[2]	2 000[2]
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
TOTAL[3]	**12 000[4]**	**4 000**	**45 000**	**45 000**

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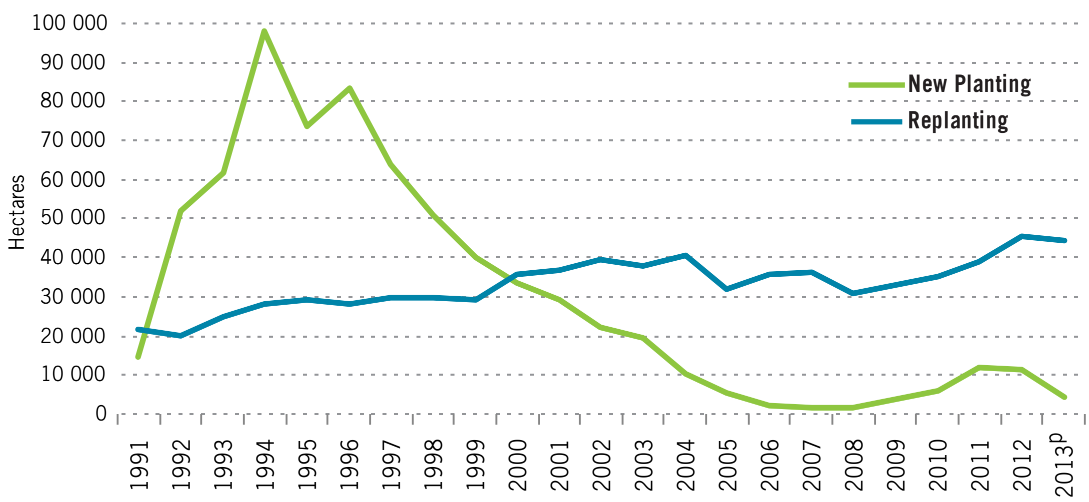
Notes
1. The estimated areas in Table 5 are either rounded to the nearest 1000 hectares or recorded as less than 1000 hectares where they are between 1 and 999 hectares.
2. May include harvested areas of radiata pine replanted with Douglas-fir.
3. The sums of the component areas do not necessarily equal the total areas as a result of rounding to the nearest 1000 hectares or recording as less than 1000 hectares.
4. The 2012 estimate of new planting has been revised on the basis of the 2013 NEFD survey to 12 000 hectares from 19 000 hectares (or using figures rounded to the nearest 500 hectares, from 18 500 hectares to 11 500 hectares). The 2013 NEFD survey only covered forest owners with at least 1000 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



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LOOKING TOWARDS 2014

The 2013 nursery survey asked nursery managers whether they expect sales in 2014 to be similar to, lower or higher than, 2013. Of the 18 nurseries that responded, 4 indicated that they expect sales to be lower, 9 indicated they expect sales to be at similar levels, and 5 indicated they expect sales to be higher in 2014.

REVIEW OF 2013 PLANTING ESTIMATES

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

MPI thanks all the nursery managers who supplied information in 2013 that enables these estimates of tree stock sales and planting rates to be made. MPI also thanks forest owners, managers and consultants who have previously provided information on stocking rates for forest establishment. (A stocking rates survey was not undertaken in 2013).

FOR MORE INFORMATION

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