



PROVISIONAL ESTIMATES OF TREE STOCK SALES AND FOREST PLANTING IN 2014

PURPOSE

This report provides the provisional estimates of the sales of tree stocks and the areas of forest planted in 2014.

PROVISIONAL ESTIMATES

The provisional estimates are based on returns from 28 of the 29 forestry nurseries covered by this annual survey. Tree stock sales for the residual nursery were estimated, based upon the previous year's return.

BACKGROUND

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

TREE STOCK SALES

Tree stock sales reported in 2014 totalled 50.8 million seedlings, compared to 54.1 million seedlings sold in 2013. Table 1 provides a breakdown of sales since 2007, by species and species groups.

Table 1: Tree stock sales from 2007 to 2014 (millions)

	2007	2008	2009	2010	2011	2012	2013	2014 ^p
Radiata pine	36.7	36.2	37.7	46.4	58.9	64.6	48.5	47.2
Douglas-fir	2.9	2.3	3.0	3.6	5.1	4.0	3.1	1.9
Other softwoods	1.7	1.5	1.5	1.3	1.3	1.3	0.7	0.8
All hardwoods	1.1	1.2	1.0	1.9	2.3	2.6	1.9	0.9
TOTAL	42.4	41.2	43.2	53.2	67.6	72.5	54.1¹	50.8

^p Provisional.

Note

1. The total does not equal the sum of the component cells due to rounding of each cell to the nearest 100,000.

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 2014 (millions)

Year	GF < 14	GF 14 – 9	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
2014	5.8	0.2	11.6	14.5	15.1	47.2

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 proportion of the area planted in radiata pine with a Growth and Form (GF) rating of 20 or more and a GF rating of 19 or less (and Stand Select) is estimated in Table 3.

Table 3: Estimated Percentage of Total Area of Radiata Pine Planting by GF Category

Radiata pine GF Rating	2007	2008	2009	2010	2011	2012	2013	2014 ^p
Seedlings ≤ GF19	31	31	28	44 ¹	49 ¹	48 ¹	38 ¹	36 ¹
Seedlings/cuttings ≥ GF20	69	69	72	56	51	52	62	64

p Provisional.

Note

1. Includes Stand Select.

FOREST PLANTING

The total area of forest planting in the winter of 2014 is provisionally estimated by the nursery survey and associated modelling to be 46 000 hectares.

Table 4: Estimated Areas Planted in 2014 by Species and Species Groups

Species/species group	Area (hectares) ¹	Percentage of total area
Radiata pine	44 000	95
Douglas-fir	1 000	2
Other exotic softwoods	less than 1 000	1
All exotic hardwoods	less than 1 000	1
TOTAL	46 000	99

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 3000 hectares of new planting in 2014.

Replanting of harvested areas is provisionally estimated to be 43 000 hectares in 2014. This is the residual area from the estimated total area of planting (46 000 hectares) minus the estimated area of new planting (3000 hectares).

The total area of new planting and replanting by species and species groups for 2014 is 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 (hectares) of New Planting and Replanting for 2014 (provisional)

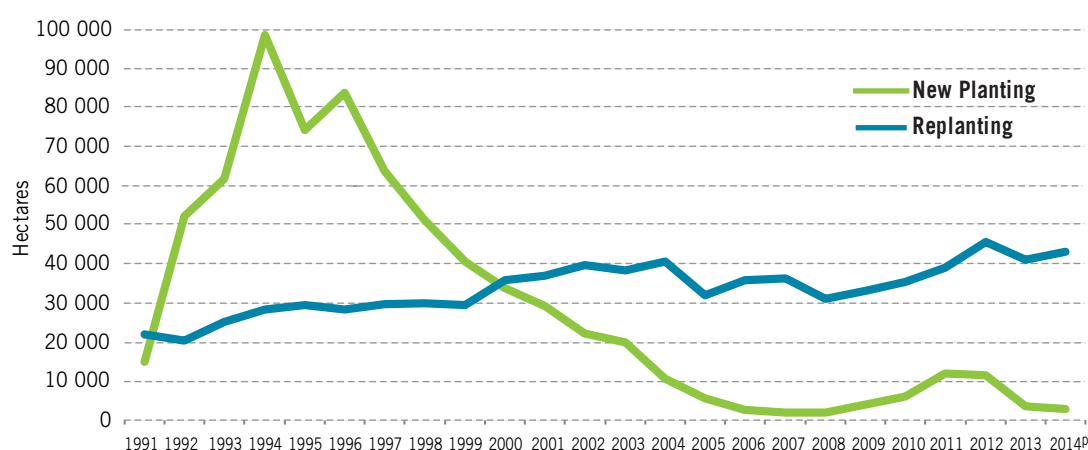
Species/species group	New Planting	Replanting
Radiata pine	3 000	42 000
Douglas-fir	less than 1000	less than 1000 ²
Other exotic softwoods	less than 1000	less than 1000
All exotic hardwoods	less than 1000	less than 1000
TOTAL³	3 000	43 000

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.

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



p Provisional.

LOOKING TOWARDS 2015

The 2014 nursery survey asked nursery managers whether they expect sales in 2015 to be similar to, lower or higher than, 2014. Of the 20 nurseries that responded, nine indicated that they expect sales to be lower, nine indicated they expect sales to be at similar levels, and two indicated they expect sales to be higher in 2015.

REVIEW OF 2014 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 2014 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 2014).

FOR MORE INFORMATION

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