

DRAFT FOR CONSULTATION

Climate Change (Forestry Sector) Regulations 2008 [Draft for Consultation]

Governor-General

Order in Council

At Wellington this day of 2008

Present:
in Council

Pursuant to section 148 of the Climate Change Response Act 2002, His Excellency the Governor-General, acting on the advice and with the consent of the Executive Council, makes the following regulations.

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Regulations

- 1 Title**
These regulations are the Climate Change (Forestry Sector) Regulations 2008 [Draft for Consultation].
- 2 Commencement**
These regulations come into force on the day after the date that sections 4 and 43 of the Climate Change (Emissions Trading and Renewable Preference) Act 2008 come into force.
- 3 Application**
These regulations apply on and after 1 January 2008.
- 4 Interpretation**
 - (1) In these regulations, unless the context otherwise requires,—
 - Act** means the Climate Change Response Act 2002
 - annual emissions return** means an annual emissions return under section 65 of the Act
 - class** means a class defined in the International Code of Botanical Nomenclature Vienna Code 2006
 - Douglas fir** means the forest species *Pseudotsuga menziesii*
 - GPS** means global positioning system

hardwoods means forest species in the class *Magnoliopsida* (angiosperms)

other softwoods means forest species in the class *Coniferopsida* (gymnosperms), other than *Pinus radiata* or Douglas fir

pre-1990 forest land participant means a person who is a participant under section 54(1) of the Act in relation to an activity in Part 1 of Schedule 3 of the Act

region means a region specified in Part 1 of Schedule 3

regenerate includes the commencement of growth as a result of a process other than planting

Registrar means the Chief Registrar of the Maori Land Court, the Registrar-General of Land, or the Registrar of Deeds

timber has the same meaning as in section 2(1) of the Forests Act 1949

- (2) Examples used in these regulations have the following status:
- (a) an example is only illustrative of the provision to which it relates and does not limit the provision; and
 - (b) if an example and the provision to which it relates are inconsistent, the provision prevails.

5 Fees and charges

- (1) The fees and charges set out in Schedule 1 are payable to the chief executive in respect of the matters to which they relate.
- (2) The fees and charges are inclusive of goods and services tax.
- (3) A fee or charge that is payable annually must be paid in every year by 31 January in the year to which it relates.

6 Hourly rate costs

- (1) Costs specified in these regulations as payable at an hourly rate must be calculated by—
 - (a) adding together the total number of 15-minute units spent by the person carrying out the function (including travel and waiting in respect of the function); and
 - (b) multiplying the total number of units by 25% of the applicable hourly rate.
- (2) To avoid doubt, a minimum charge of 25% of the hourly rate is payable if the time spent by the person carrying out the function is 15 minutes or less.

- (3) For the purposes of this regulation, **15-minute unit** means—
- (a) a period of 15 minutes; or
 - (b) a period of less than 15 minutes if dividing the total time spent carrying out the function by 15 minutes produces a remainder of less than 15 minutes.

7 Notification of status of forest land

- (1) This regulation applies if the chief executive—
- (a) is satisfied that any forest land is pre-1990 forest land; or
 - (b) declares any pre-1990 forest land to be exempt land under section 159 of the Act.
- (2) If this regulation applies, the chief executive must,—
- (a) if the forest land is Maori land that is not registered or provisionally registered under the Land Transfer Act 1952, give notice to the Chief Registrar of the Maori Land Court that the land is—
 - (i) pre-1990 forest land; or
 - (ii) exempt land under section 159 of the Act; or
 - (b) if the forest land is registered or provisionally registered under the Land Transfer Act 1952, give notice to the Registrar-General of Land that the land is —
 - (i) pre-1990 forest land; or
 - (ii) exempt land under section 159 of the Act; or
 - (c) if the forest land is registered under the Deeds Registration Act 1908, give notice to the Registrar of Deeds that the land is—
 - (i) pre-1990 forest land; or
 - (ii) exempt land under section 159 of the Act.
- (3) A notice under subclause (2)—
- (a) must be in form 1 of Schedule 2; and
 - (b) may contain any additional information that the chief executive thinks fit; and
 - (c) must, if pre-1990 forest land or exempt land constitutes part of a greater area of land contained in a record of the Maori Land Court, computer register, or deeds index, indicate that only part of the land is—
 - (i) pre-1990 forest land; or
 - (ii) exempt land under section 159 of the Act.

8 Registrar to make endorsements

A Registrar who receives notice under regulation 7 that land is pre-1990 forest land or exempt land under section 159 of the Act must record the notice in the appropriate record of the Maori Land Court, computer register, or deeds index relating to the land.

9 Cancellation of notices

- (1) This regulation applies if—
 - (a) the chief executive has notified a Registrar under regulation 7 that any land is—
 - (i) pre-1990 forest land; or
 - (ii) exempt land under section 159 of the Act; and
 - (b) the chief executive is satisfied that the land or part of the land—
 - (i) has been deforested and any liability to surrender units arising in relation to that deforestation has been satisfied; or
 - (ii) is not pre-1990 forest land; or
 - (iii) is not exempt land under section 159 of the Act.
- (2) If this regulation applies, the chief executive must, by notice to the appropriate Registrar, cancel or partially cancel the notice given under regulation 7.
- (3) If a Registrar receives a notice from the chief executive under subclause (2), the Registrar—
 - (a) must amend the relevant Maori Land Court record, computer register, or deeds index relating to the land to reflect the cancellation or partial cancellation of the notice given under regulation 7; and
 - (b) may take any other action in respect of a Maori Land Court record, computer register, or deeds index for the land to ensure that the land is not noted as—
 - (i) pre-1990 forest land; or
 - (ii) exempt land under section 159 of the Act.
- (4) A notice under subclause (2) must be in form 2 of Schedule 2 and may contain such additional information as the chief executive thinks fit.

10 Collection of information for purpose of calculating emissions

- (1) A pre-1990 forest land participant must collect the following information in relation to any pre-1990 forest land, other than exempt land, from which trees are cleared as part of deforestation by the participant in a year:
- (a) the area, in hectares, of pre-1990 forest land from which trees are cleared; and
 - (b) the forest species cleared from the pre-1990 forest land; and
 - (c) the age of the forest species cleared from the pre-1990 forest land; and
 - (d) if the forest species cleared is *Pinus radiata*, the region or regions in which the pre-1990 forest land is situated.
- (2) The rules specified in regulation 12(a) and (b) apply for the purposes of subclause (1)(c).

11 Method of calculating emissions

- (1) A pre-1990 forest land participant must calculate the emissions from the deforestation of pre-1990 forest land by the participant, other than exempt land, in respect of a year, or any other period required under the Act, in accordance with the following formula:

$$X \times Y = Z$$

where—

- X is the area, in hectares, of pre-1990 forest land, other than exempt land, that has been cleared as part of the deforestation process
- Y is the emissions factor from table 1 or 2 in Part 2 of Schedule 3 that reflects—
- (a) the forest species cleared from the pre-1990 forest land; and
 - (b) the age of the trees cleared; and
 - (c) if the forest species is *Pinus radiata*, the region in which the pre-1990 forest land is located
- Z is the emissions in tonnes of carbon dioxide from the deforestation of pre-1990 forest land.
- (2) Application of the tables in Part 2 of Schedule 3 is subject to—

- (a) the rules in regulation 12; and
 - (b) section 162 of the Act, which provides special rules where the trees cleared from pre-1990 forest land are 8 years or younger.
- (3) To avoid doubt, subject to the rules in regulation 12, if a participant has cleared hectares of different tree species, or different aged trees, or hectares of *Pinus radiata* that fall within different regions, the participant must calculate emissions in relation to each of those species, the age of those trees, or the regions, and add those emissions together to get a total of the participant's emissions.

Example A

A pre-1990 forest land participant clears 88.3 hectares of 34-year-old Douglas fir in Otago during a calendar year. For the purposes of calculating the emissions in relation to the deforestation, the participant should consult table 2 of Part 2 of Schedule 3 (Douglas fir) and calculate emissions as follows:

$$X = 88.3$$

$$Y = 473$$

The amount of emissions from the deforestation (Z) is 41,765.9 tonnes.

Example B

A pre-1990 forest land participant clears the following pre-1990 forest land during a calendar year:

- (a) 24.5 hectares of *Pinus radiata* in Hawke's Bay, of which—
 - (i) 12.1 hectares is 25 years old, and
 - (ii) 12.4 hectares is 28 years old; and
- (b) 100.8 hectares of 40-year-old *Pinus radiata* in Gisborne; and
- (c) 422 hectares of 20-year-old *Pinus muricata* in the Bay of Plenty.

For the purpose of calculating the emissions in relation to the deforestation in paragraph (a) and (b), the participant should consult table 1 of Part 2 of Schedule 3 (*Pinus radiata*). For the purpose of calculating the emissions in relation to the deforestation in paragraph (c), the participant should consult table 2 of Part 2 of Schedule 3 (other softwoods).

The following calculations are necessary:

(a) $12.1 \times 721.2 = 8,726.52$ and $12.4 \times 803.8 = 9,967.12$; and

(b) $100.8 \times 1103.1 = 111,192.48$

(c) $422 \times 260.3 = 109,846.6$

Add $8,726.52 + 9,967.12 + 111,192.48 + 109,846.6 = 239,732.72$.
The amount of emissions from the participant's deforestation is 239,732.72 tonnes.

Example C

A pre-1990 forest land participant clears 3 hectares of forest land in Northland during 2011, which consists of other softwoods and hardwoods that have regenerated. The land previously contained hardwoods that were felled in 2003 at age 45 years. At the time of the 2011 felling, the other softwoods are the predominant forest species and they are treated under the rules in regulation 12(a) and (b) as being 7 years of age.

Section 162 of the Act applies, so emissions are to be calculated as if the trees cleared from the land were those last harvested—the 45-year-old hardwoods. The participant should consult table 2 of Part 2 of Schedule 3 (hardwoods) and, taking into account the rule specified in regulation 12(e), calculate emissions as follows:

$$X = 3$$

$$Y = 625.9$$

The amount of emissions from the deforestation (Z) is 1,877.7 tonnes.

12 Rules for application of tables in Part 2 of Schedule 3

The following rules must be used when applying the tables in Part 2 of Schedule 3:

- (a) the age of a tree is the number of years from the year of planting or regeneration of the tree to the year of felling of the tree, no matter when in the relevant year the tree was planted, regenerated, or felled:
-

Example D

A tree is planted at any time during 1975 and felled at any time during 2012. For the purpose of applying the table in Part 2 of Schedule 3, the tree is 37 years old.

- (b) if a tree regenerates on land, the tree is to be treated as having regenerated in the year following the year in which any forest species was last harvested on the land:
-

Example E

An area of forest land contains regenerating Douglas fir. The Douglas fir was last harvested from the land in 2008.

Example E—*continued*

For the purposes of determining the age of the trees under paragraph (a), the current Douglas fir is treated as having regenerated in 2009.

- (c) if any area of forest land contains intermingled forest species, the table for the predominant forest species on the land at the time of clearing of the forest land must be used:
- (d) the predominant forest species for the purposes of paragraph (c) is the forest species that contains the largest volume of timber:

Example F

An area of forest land contains hardwoods and softwoods when cleared. The hardwoods contain the largest volume of timber. The forest species for the purpose of applying the table in Part 2 of Schedule 3 is hardwoods.

- (e) if trees cleared from land are older than the last age on the table for that species, the age for that species is the last age on the table:

Example G

An area of forest land is cleared of 58-year-old other softwoods. The emissions factor for 50-year-old trees (the last age on the table) is to be used.

- (f) if a hectare of forest land contains trees of mixed age when the trees are felled, the weighted average age of the trees is to be taken as the age of the trees:
- (g) if a hectare of forest land contains intermingled forest species of mixed ages, the weighted average age of the predominant species is to be taken as the age of the trees:

Example H

A participant clears 2.3 hectares of intermingled hardwoods, of which 30% are 60 years old and 70% are 43 years old, and other softwoods of varying ages. Under paragraph (d), the predominant species is the hardwoods. The average age of those trees is 48.1 years ((60

Example H—*continued*

years x 0.3) + (43 years x 0.7) = 48.1 years). The entry for 48-year-old trees on the hardwoods table must be used.

- (h) if, under paragraph (g),—
 - (i) the age of trees is not a whole number, the age must be rounded to the nearest whole number;
 - (ii) the age of a tree includes 0.5 of a year, the number must be rounded down to the nearest whole number.

13 Emissions returns in relation to deforestation of pre-1990 forest land

An annual emissions return, and any other emissions return of a pre-1990 forest land participant, must be accompanied by the following information in respect of each area of pre-1990 forest land, other than exempt land, deforested by the participant in the year or other period covered by the return:

- (a) its legal description; and
 - (b) if relevant, the computer register reference or references that pertain to the area; and
 - (c) if the total area deforested by the participant in the year was greater than 50 hectares, 1 or more geospatial data files derived from an orthographically corrected aerial photograph or a survey plan capable of being deposited under the Land Transfer Act 1952 that identifies the boundaries of each area of forest land deforested; or
 - (d) if the total area deforested by the participant in the year was less than 50 hectares, either—
 - (i) the information in paragraph (c); or
 - (ii) GPS co-ordinates from a GPS device that captures the bounding co-ordinates of each area of forest land deforested.
-

Schedule 1 r 5(1)
**Fees and charges payable for applications,
and other matters relating to post-1989
forest land**

Matter in relation to which fee or charge is payable	Fee or charge payable	Fee or charge payable by
To come	To come	To come

Schedule 2 rr 7(3), 9(4)
Forms

Form 1 r 7(3)(a)

Notice of status of forest land

Section 170, Climate Change Response Act 2002

To the Chief Registrar of the Maori Land Court/Registrar-General of Land/Registrar of Deeds*

The following land/Part of the following land* is—

- pre-1990 forest land under the Climate Change Response Act 2002*
- pre-1990 forest land that is exempt land under section 159 of the Climate Change Response Act 2002*.

**Delete whichever is inapplicable.*

Description of land

[Insert legal description of land that is pre-1990 forest land or exempt land under section 159 of the Climate Change Response Act 2002, or contains such land, including the computer register reference (if relevant).]

Date:

Signed:
(Chief executive)

Form 2

r 9(4)

Cancellation or partial cancellation of notice

Section 170, Climate Change Response Act 2002

To the Chief Registrar of the Maori Land Court/Registrar-General of Land/Registrar of Deeds*

Notice [*specify LTA or other reference number*] of [*date*] gave notice that the land/ part of the land* in Part A of the Schedule of this notice was—

- pre-1990 forest land under the Climate Change Response Act 2002*
- pre-1990 forest land that is exempt land under section 159 of the Climate Change Response Act 2002*.

Please—

- cancel that notice*
- cancel that notice in relation to the land in Part B of the Schedule to this notice*.

**Delete whichever is inapplicable.*

Date:

Signed:

(Chief executive)

Schedule

Part A

Description of land in regulation 7 notice

[Insert legal description of land from the previous notice under regulation 7.]

Part B

Description of land that is not pre-1990 forest land or exempt land

[Insert legal description of land that is not pre-1990 forest land or exempt land under section 159 of the Climate Change Response Act 2002, including the computer register reference (if relevant).]

Schedule 3
Pre-1990 forest land

rr 4, 11, 12

Part 1
Regions

Auckland means the region encompassing—

- (a) the areas of land constituted by Local Government (Auckland Region) Reorganisation Order 1989, *Gazette* 1989, p 2247 (as in force immediately before 1 January 1990) as—
 - (i) Auckland City; and
 - (ii) Franklin District; and
 - (iii) North Shore City; and
 - (iv) Manukau City; and
 - (v) Papakura District; and
 - (vi) Rodney District; and
 - (vii) Waitakare City; and
- (b) the areas of land constituted by Local Government (Northland Region) Reorganisation Order 1989, *Gazette* 1989, p 2391 (as in force immediately before 1 January 1990) as—
 - (i) Far North District; and
 - (ii) Kaipara District; and
 - (iii) Whangarei District; and
- (c) the areas of land constituted by Local Government (Waikato Region) Reorganisation Order 1989, *Gazette* 1989, p 2460 (as in force immediately before 1 January 1990) as—
 - (i) Hauraki District; and
 - (ii) Thames-Coromandel District

Bay of Plenty means the region encompassing the areas of land constituted by Local Government (Bay of Plenty Region) Reorganisation Order 1989, *Gazette* 1989, p 2275 (as in force immediately before 1 January 1990) as—

- (a) Kawerau District; and
- (b) Opotiki District; and
- (c) Rotorua District; and
- (d) Tauranga District; and
- (e) Western Bay of Plenty District; and
- (f) Whakatane District

Part 1—*continued*

Canterbury/West Coast means the region encompassing—

- (a) the areas of land constituted by Local Government (Canterbury Region) Reorganisation Order 1989, *Gazette* 1989, p 2296 (as in force immediately before 1 January 1990) as—
 - (i) Ashburton District; and
 - (ii) Banks Peninsula District; and
 - (iii) Christchurch City; and
 - (iv) Hurunui District; and
 - (v) Mackenzie District; and
 - (vi) Selwyn District; and
 - (vii) Timaru District; and
 - (viii) Waimakariri District; and
 - (ix) Waimate District; and
- (b) the areas of land constituted by Local Government (West Coast Region) Reorganisation Order 1989, *Gazette* 1989, p 2517 (as in force immediately before 1 January 1990) as—
 - (i) Buller District; and
 - (ii) Grey District; and
 - (iii) Westland District; and
- (c) the area of land constituted by Local Government (Nelson-Marlborough Region) Reorganisation Order 1989, *Gazette* 1989, p 2375 (as in force immediately before 1 January 1990) as Kaikoura District; and
- (d) the area of land comprising the Chatham Islands Territory, as defined by section 5 of the Chatham Islands Council Act 1995 (as in force immediately before 1 January 1996)

Gisborne means the area of land constituted by Local Government (Gisborne Region) Reorganisation Order 1989, *Gazette* 1989, p 2328 (as in force immediately before 1 January 1990) as Gisborne District

Hawke's Bay/Southern North Island means the region encompassing—

- (a) the areas of land constituted by Local Government (Hawke's Bay Region) Reorganisation Order 1989, *Gazette* 1989, p 2334 (as in force immediately before 1 January 1990) as—
 - (i) Central Hawke's Bay District; and
 - (ii) Hastings District; and
 - (iii) Napier City; and

Part 1—*continued*

- (iv) Wairoa District; and
- (b) the areas of land constituted by Local Government (Manawatu-Wanganui Region) Reorganisation Order 1989, *Gazette* 1989, p 2351 (as in force immediately before 1 January 1990) as—
 - (i) Horowhenua District; and
 - (ii) Manawatu District; and
 - (iii) Palmerston North City; and
 - (iv) Rangitikei District; and
 - (v) Ruapehu District; and
 - (vi) Tararua District; and
 - (vii) Wanganui District; and
- (c) the areas of land constituted by Local Government (Taranaki Region) Reorganisation Order 1989, *Gazette* 1989, p 2445 (as in force immediately before 1 January 1990) as—
 - (i) New Plymouth District; and
 - (ii) South Taranaki District; and
 - (iii) Stratford District; and
- (d) the areas of land constituted by Local Government (Wellington Region) Reorganisation Order 1989, *Gazette* 1989, p 2491 (as in force immediately before 1 January 1990) as—
 - (i) Carterton District; and
 - (ii) Kapiti Coast District; and
 - (iii) Lower Hutt City; and
 - (iv) Masterton District; and
 - (v) Porirua City; and
 - (vi) South Wairarapa District; and
 - (vii) Upper Hutt City; and
 - (viii) Wellington City

Nelson/Marlborough means the region encompassing the areas of land constituted by Local Government (Nelson-Marlborough Region) Reorganisation Order 1989, *Gazette* 1989, p 2375 (as in force immediately before 1 January 1990) as—

- (a) Marlborough District; and
- (b) Nelson City; and
- (c) Tasman District

Part 1—*continued*

Otago means the region encompassing the areas of land constituted by Local Government (Otago Region) Reorganisation Order 1989, *Gazette* 1989, p 2408 (as in force immediately before 1 January 1990) as—

- (a) Central Otago District; and
- (b) Clutha District; and
- (c) Dunedin City; and
- (d) Queenstown-Lakes District; and
- (e) Waitaki District

Southland means the region encompassing the areas of land constituted by Local Government (Southland Region) Reorganisation Order 1989, *Gazette* 1989, p 2430 (as in force immediately before 1 January 1990) as—

- (a) Gore District; and
- (b) Invercargill District; and
- (c) Southland District; and

Waikato/Taupo means the region encompassing the areas of land constituted by Local Government (Waikato Region) Reorganisation Order 1989, *Gazette* 1989, p 2460 (as in force immediately before 1 January 1990) as—

- (a) Hamilton City; and
- (b) Matamata-Piako District; and
- (c) Otorohanga District; and
- (d) South Waikato District; and
- (e) Taupo District; and
- (f) Waikato District; and
- (g) Waipa District; and
- (h) Waitomo District.

Part 2

Tables for calculating emissions in relation
to deforestation of pre-1990 forest land

Table 1
Emissions factors for *Pinus radiata* by region

Age (yrs)	Ak	W/T	BOP	Gis	H/SNI	N/M	C/W	O	S
9	254.6	225.3	233.0	290.4	285.3	187.3	158.7	191.5	237.4
10	264.9	235.0	236.7	296.1	286.4	192.6	174.4	199.8	240.2
11	283.2	250.9	246.8	308.8	299.2	196.4	181.9	196.6	238.9
12	306.0	271.7	262.9	327.9	317.4	206.2	187.3	200.3	248.0
13	333.1	296.3	283.2	351.9	341.1	221.0	190.3	209.9	262.2
14	363.0	323.8	307.0	379.8	368.4	239.6	198.3	224.5	281.4
15	395.2	353.7	333.6	410.4	398.7	261.6	210.5	243.1	304.3
16	428.9	385.3	362.1	442.7	430.8	286.1	226.0	265.2	330.2
17	463.5	418.0	392.0	476.1	464.1	312.8	244.4	290.0	358.5
18	498.4	451.3	422.7	510.0	498.0	341.0	265.1	317.0	388.6
19	533.3	484.9	453.7	543.9	532.0	370.4	287.7	345.7	419.8
20	567.7	418.4	484.7	577.5	565.7	400.5	311.7	375.5	451.9
21	601.4	551.4	515.4	610.5	598.8	431.0	336.7	406.0	484.3
22	634.2	583.8	545.5	642.6	631.1	461.5	362.3	436.9	516.8
23	665.8	615.4	574.8	673.6	662.3	491.8	388.4	467.7	549.0
24	696.1	646.0	603.2	703.4	692.4	521.7	414.6	498.4	580.7
25	725.1	675.5	630.5	731.9	721.2	551.0	440.7	528.6	611.9
26	753.1	704.4	657.2	759.6	749.3	579.9	466.9	558.5	642.7
27	780.6	732.8	683.4	786.8	776.8	608.7	493.1	588.4	673.4
28	807.4	760.8	709.2	813.6	803.8	637.3	519.4	618.2	703.8
29	833.8	788.4	734.6	839.8	830.4	665.6	545.6	647.8	734.1
30	859.5	815.6	759.5	865.6	856.6	693.6	571.8	677.2	764.0
31	884.6	842.1	783.8	890.9	882.2	721.1	597.7	706.3	793.6
32	909.1	868.2	807.6	915.7	907.3	748.2	623.4	735.0	822.9
33	933.1	893.7	830.8	940.0	932.0	774.9	648.8	763.4	851.7
34	956.5	918.8	853.5	964.0	956.4	801.0	673.9	791.4	880.1
35	979.4	943.4	875.7	987.6	980.4	826.7	698.6	819.0	908.3
36	1002.0	967.6	897.5	1011.0	1004.2	851.9	723.0	846.3	936.0

Part 2—*continued*

Age (yrs)	Ak	W/T	BOP	Gis	H/SNI	N/M	C/W	O	S
37	1024.3	991.4	918.9	1034.1	1027.8	876.6	747.0	873.3	963.5
38	1046.2	1015.0	940.0	1057.2	1051.3	900.9	770.7	900.0	990.7
39	1068.0	1038.2	960.8	1080.2	1074.7	924.8	794.0	926.3	1017.6
40	1089.7	1061.4	981.4	1103.1	1098.2	948.3	816.9	952.4	1044.3
41	1111.4	1084.5	1001.8	1126.3	1121.7	971.5	839.5	978.42	1071.0
42	1133.0	1107.5	1022.1	1149.6	1145.4	994.4	861.8	1004.1	1097.4
43	1154.7	1130.5	1042.3	1173.0	1169.2	1016.9	883.6	1029.6	1123.8
44	1176.5	1153.5	1062.5	1196.6	1193.2	1039.2	905.1	1054.9	1150.1
45	1198.4	1176.6	1082.8	1220.6	1217.6	1061.2	926.2	1080.1	1176.3
46	1220.6	1200.0	1103.1	1245.0	1242.2	1083.1	947.0	1105.3	1202.7
47	1243.1	1223.6	1123.7	1269.8	1267.3	1105.0	967.6	1130.4	1229.1
48	1266.0	1247.5	1144.4	1295.1	1292.9	1126.7	987.9	1155.6	1255.6
49	1289.3	1271.9	1165.6	1321.0	1319.0	1148.5	1007.9	1180.8	1282.4
50	1313.1	1296.8	1187.1	1347.6	1345.6	1170.4	1027.8	1206.2	1309.5

Key

Ak means Auckland

BOP means Bay of Plenty

C/W means Canterbury/West Coast

Gis means Gisborne

H/SNI means Hawke's Bay/Southern North Island

N/M means Nelson/Marlborough

O means Otago

S means Southland

W/T means Waikato/Taupo

Table 2
Emissions factors for Douglas fir, other
softwoods, and hardwoods

Age (yrs)	Douglas fir	Other softwoods	Hardwoods
9	115.9	137.3	282.2
10	124.4	139.4	310.0

Part 2—continued

Age (yrs)	Douglas fir	Other softwoods	Hardwoods
11	135.7	144.1	337.2
12	150.9	151.2	364.1
13	168.8	160.6	389.6
14	189.2	172.0	414.2
15	212.6	184.8	437.6
16	237.4	198.8	460.0
17	263.7	213.6	481.4
18	290.1	229.0	501.9
19	305.0	244.6	521.6
20	307.5	260.3	540.5
21	299.0	276.0	558.8
22	290.0	291.4	576.5
23	293.7	306.5	593.5
24	298.6	321.2	610.0
25	308.3	335.5	625.9
26	319.6	349.4	
27	334.6	363.2	
28	350.3	376.8	
29	368.2	390.2	
30	387.4	403.5	
31	408.1	416.4	
32	429.4	429.2	
33	450.1	441.8	
34	473.0	454.1	
35	494.2	466.2	
36	518.0	478.2	
37	539.5	490.0	
38	561.8	501.7	
39	583.8	513.3	
40	605.8	524.8	
41	627.7	536.4	
42	649.3	547.8	
43	670.5	559.3	

Part 2—*continued*

Age (yrs)	Douglas fir	Other softwoods	Hardwoods
44	691.4	570.7	
45	711.8	582.2	
46	731.9	593.8	
47	751.6	605.5	
48	770.8	617.4	
49	789.5	629.4	
50	807.7	641.6	
51	825.7		
52	843.7		
53	861.6		
54	879.5		
55	897.2		
56	914.8		
57	932.2		
58	949.5		
59	966.6		
60	983.6		
61	1000.3		
62	1016.9		
63	1033.2		
64	1049.4		
65	1065.4		
66	1081.1		
67	1096.6		
68	1112.0		
69	1127.1		
70	1142.0		
71	1156.6		
72	1171.1		
73	1185.3		
74	1199.4		
75	1213.2		
76	1266.8		

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Part 2—*continued*

Age (yrs)	Douglas fir	Other softwoods	Hardwoods
77	1240.2		
78	1253.4		
79	1266.3		
80	1279.1		

Clerk of the Executive Council.

Explanatory note

This note is not part of the regulations, but is intended to indicate their general effect.

These regulations, which come into force on the day after the date that sections 4 and 43 of the Climate Change (Emissions Trading and Renewable Preference) Act 2008 come into force, set out the obligations for the collection of data and information and the calculation of emissions under section 62 of the Climate Change Response Act 2002 in relation to pre-1990 forest land participants.

Issued under the authority of the Acts and Regulations Publication Act 1989.
Date of notification in *Gazette*:
These regulations are administered by the Ministry of Agriculture and Forestry.
