

**M.O., 2001****Order 449 of the Minister of Natural Resources respecting the value of silvicultural treatments admitted as payment of dues for the fiscal year 2001-2002**

Forest Act

(R.S.Q., c. F-4.1, ss. 73.1 and 73.3)

1. The silvicultural treatments described in Schedule I shall be admitted as payment of the dues prescribed by the Minister responsible for the administration of the Forest Act as determined by the production priority groups described in Schedule I.

The silvicultural treatments are realized on the forest area where the priority production has to be performed.

**SCHEDULE I**

(s. 1)

**SILVICULTURAL TREATMENTS ADMISSIBLES BY PRODUCTION PRIORITY GROUPS**

| Silvicultural treatments admissible           | Production priority groups       |       |        |             |   |      |                              |                               |                                 |   |                                |                                    |                                      |  |
|---|----------------------------------|-------|--------|-------------|---|------|------------------------------|-------------------------------|---------------------------------|---|--------------------------------|------------------------------------|--------------------------------------|--|
|   | Fir, spruce, jack pine, tamarack | Thuja | Poplar | White birch | Birch <sup>1</sup> or Oak or intermediary tol.hard. | Pine | Maple or tsuga or tol. hard. | Pine-Birch (Pne) <sup>1</sup> | Pine-Birch (Birch) <sup>1</sup> | Mixed S-int.hard (S) or S-int.hard. (hard.) | Mixed S-Birch (S) <sup>1</sup> | Mixed S-Birch (hard.) <sup>1</sup> | Mixed S-Maple (S) or S-tol.hard. (S) | Mixed S-Maple (hard.) or S-int.hard. (hard.) |
| Precommercial thinning                        | X                                | X     | X      | X           | X   | X    | X                            | X                             | X                               | X   | X                              | X                                  | X                                    | X  |
| Fertilization                                 | X                                |       |        |             |   |      |                              |                               |                                 |   |                                |                                    |                                      |  |
| Commercial thinning                           | X                                | X     | X      | X           | X   | X    | X                            | X                             | X                               | X   | X                              | X                                  | X                                    | X  |
| Spreading commercial thinning                 |                                  |       |        |             | X   |      |                              |                               |                                 |   |                                | X                                  |                                      |  |
| Pine seeding                                  | X                                |       |        |             |   | X    |                              | X                             | X                               |   |                                |                                    |                                      |  |
| Improvement cutting                           |                                  | X     |        |             |   |      |                              |                               |                                 |   |                                |                                    |                                      |  |
| Selection cutting                             |                                  | X     |        |             |   |      | X                            |                               |                                 |   |                                |                                    |                                      | X  |
| Selection cutting by patches                  |                                  |       |        |             | X   |      |                              | X                             |                                 |   | X                              |                                    |                                      |  |
| Selection and regeneration cutting by patches |                                  |       |        |             | X   |      |                              | X                             |                                 |   | X                              |                                    |                                      |  |

2. The silvicultural treatments mentioned in Schedule II and their admissibility criterias are defined in the relative instructions to the application of the present Order.

3. The values of such silvicultural treatments for the 2001-2002 fiscal year are those established in Schedule II.

4. This Minister's Order replaces Minister's Order 425 of the Minister of Natural Resources, published in Part 2 of the *Gazette officielle du Québec* of 31 March 2000.

5. This Minister's Order of the Minister of Natural Resources comes into force on 1 April 2001.

JACQUES BRASSARD,  
*Minister of Natural Resources*

| Silvicultural treatments<br>admissible   | Production priority groups       |       |        |             |   |      |                              |                                |                                 |  |                                |                                    |                                      |   |
|--|----------------------------------|-------|--------|-------------|---|------|------------------------------|--------------------------------|---------------------------------|--|--------------------------------|------------------------------------|--------------------------------------|---|
|  | Fir, spruce, jack pine, tamarack | Thuja | Poplar | White birch | Birch <sup>1</sup> or Oak or intermediary<br>to hard. | Pine | Maple or tsuga or tol. hard. | Pine-Birch (Pine) <sup>1</sup> | Pine-Birch (Birch) <sup>1</sup> | Mixed S-int.hard (S) or S-int.hard.<br>(hard.) | Mixed S-Birch (S) <sup>1</sup> | Mixed S-Birch (hard.) <sup>1</sup> | Mixed S-Maple (S) or S-tol.hard. (S) | Mixed S-Maple (hard.) or S-int.hard.<br>(hard.) |
| Selection cutting for maple and wood production  |                                  |       |        |             |   |      | X                            |                                |                                 |  |                                |                                    |                                      | X   |
| Preselection cutting   |                                  |       |        |             |   |      | X                            |                                |                                 |  |                                |                                    |                                      | X   |
| Strip cutting with regeneration and soil protection  | X                                | X     |        |             | X   | X    |                              | X                              | X                               |  | X                              | X                                  |                                      |   |
| Mosaics cutting with regeneration and soil protection  | X                                | X     | X      | X           | X   | X    |                              | X                              | X                               |  | X                              | X                                  |                                      |   |
| Progressive seed cutting   | X                                | X     |        | X           | X   | X    | X                            | X                              | X                               | X  | X                              | X                                  | X                                    | X   |
| Planting   | X                                | X     | X      | X           | X   | X    | X                            |                                |                                 |  | X                              |                                    |                                      |   |
| Site preparation, natural regeneration reinforcement planting and mechanical release treatment | X                                | X     |        |             | X   | X    |                              | X                              | X                               | X  | X                              | X                                  | X                                    | X   |
| Drainage   | X                                | X     |        |             |   |      |                              |                                |                                 |  |                                |                                    |                                      |   |
| Seedlings reserve cutting  | X                                | X     |        | X           | X   | X    | X                            | X                              | X                               | X  | X                              | X                                  | X                                    | X   |
| Phytosanitary pruning  | X                                |       |        |             |   | X    |                              | X                              | X                               |  |                                |                                    |                                      |   |
| Enrichment planting  |                                  |       |        |             | X   | X    |                              | X                              | X                               |  |                                |                                    |                                      |   |

1 For these priority productions, the yellow birch prevails on the white birch as the principal objective species.

## SCHEDULE II

(s. 2 and 3)

VALUES OF SILVICULTURAL TREATMENTS  
ADMITTED AS PAYMENT OF DUES  
FISCAL YEAR 2001-2002

### 1. SITE PREPARATION

#### Scarification

|  |           |
|--|-----------|
| Anchor chains  | 110 \$/ha |
| Shark-fin barrels and chains   | 310 \$/ha |
| Hydraulic cone trenchers (Wadell type)   | 245 \$/ha |
| Hydraulic disk trenchers<br>(TTS hydraulic and Donaren types)<br>or Rake scarifier (shark) | 195 \$/ha |

|   |                            |
|---|----------------------------|
| Batch scarifier (Bracke)<br>or disk trencher (TTS type) | 140 \$/ha                  |
| Batch scarifier moulder<br>(Bracke moulder)             | 195 \$/ha                  |
| “V” blade batch scarifier (Bracke)<br>or disk trencher  | 385 \$/ha                  |
| Cutter-type portable scarifier<br>or forest mattock     | 455 \$/1 000<br>microsites |
| Partial scarification in seed holes                     |                            |
| Inside the patches                                      | 650 \$/ha                  |
| Inside the parquets                                     | 565 \$/ha                  |
| Inside the regeneration cuttings                        | 495 \$/ha                  |

|                                      |           |
|--------------------------------------|-----------|
| Forest harrows (Rome et Crabe types) |           |
| Single pass                          | 220 \$/ha |
| Double pass                          | 395 \$/ha |
| 36 inches harrow                     | 485 \$/ha |
| Létourneau tree crusher              | 345 \$/ha |

|   |             |
|---|-------------|
| Ploughing and harrowing   |             |
| Forest plough (Lazure type) + forest harrow (Rome and Crabes types) | 1 195 \$/ha |

|  |           |
|--|-----------|
| Clearing   |           |
| Rake-equipped crawler tractor                                    | 435 \$/ha |
| Winter shear-blading with a shear-blade-equipped crawler tractor | 445 \$/ha |
| Rake equipped skidder  | 370 \$/ha |
| Hydraulic rake   | 370 \$/ha |
| Modified "V" blade models C and H                                | 185 \$/ha |

|                    |           |
|--------------------|-----------|
| Prescribed burning | 400 \$/ha |
|--------------------|-----------|

## 2. MECHANICAL RELEASE TREATMENT

|                                  |           |
|----------------------------------|-----------|
| Coniferous or boreal forest zone | 665 \$/ha |
| Mixed and hardwood forest zones  | 750 \$/ha |

## 3. PRECOMMERCIAL THINNING

Priority production of softwoods and mixed predominantly softwood stands and priority production of poplars and mixed predominantly poplar stands

Value per hectare =  $434,12 \times \ln(ti/ha) - 3\,355,76$

ln: base  $e$  logarithm  
 ti: number of trees of more than 1,2 meter for softwoods and 1,8 meter for hardwoods  
 ha: hectare

|  |           |
|--|-----------|
| Priority production of intolerant hardwoods and mixed predominantly intolerant hardwoods (except priority production of poplars and mixed predominantly poplar stands) | 860 \$/ha |
|--|-----------|

|  |           |
|--|-----------|
| Priority production of tolerant hardwoods and mixed predominantly tolerant hardwood stands | 825 \$/ha |
|--|-----------|

## 4. COMMERCIAL THINNING (1)

Softwoods

Value per hectare with marking of trees to fell = 237,86 / (average DBH harvested x 0,0414) <sup>2</sup>

Value per hectare without marking of trees to fell = 237,86 / (average DBH harvested x 0,0414) <sup>2</sup> - 150

|  |           |
|--|-----------|
| Mixed with tolerant and intolerant hardwoods (2) | 580 \$/ha |
| Tolerant and intolerant hardwoods                | 245 \$/ha |

## 5. DRAINAGE

|                                       |                             |
|---------------------------------------|-----------------------------|
| Cleared areas (without prior felling) | 1,50 \$/m or m <sup>3</sup> |
| Wooded areas (without prior felling)  | 1,70 \$/m or m <sup>3</sup> |
| Wooded areas (with prior felling)     | 1,90 \$/m or m <sup>3</sup> |

## 6. FERTILIZATION

|           |           |
|-----------|-----------|
| Softwoods | 380 \$/ha |
|-----------|-----------|

## 7. NATURAL REGENERATION REINFORCEMENT PLANTING RED PINE AND WHITE PINE PLANTING

With site preparation

|                     |                        |
|---------------------|------------------------|
| Bare-root seedlings |                        |
| Conventional size   | 240 \$/1 000 seedlings |
| Large size          | 380 \$/1 000 seedlings |
| Hybrid poplars      | 585 \$/1 000 saplings  |
| Container seedlings |                        |
| 67-50               | 195 \$/1 000 seedlings |
| 45-110 or cuttings  | 205 \$/1 000 seedlings |
| 25-200              | 290 \$/1 000 seedlings |
| 45-340 and 25-350-A | 335 \$/1 000 seedlings |

Without site preparation

|                     |                        |
|---------------------|------------------------|
| Bare-root seedlings |                        |
| Conventional size   | 255 \$/1 000 seedlings |
| Large size          | 395 \$/1 000 seedlings |
| Container seedlings |                        |
| 67-50               | 210 \$/1 000 seedlings |
| 45-110 or cuttings  | 220 \$/1 000 seedlings |
| 25-200              | 305 \$/1 000 seedlings |
| 45-340 or 25-350-A  | 350 \$/1 000 seedlings |

## 8. PROGRESSIVE SEED CUTTING (1) (2)

|  |           |
|--|-----------|
| Softwoods                                    | 540 \$/ha |
| Mixed with tolerant and intolerant hardwoods | 245 \$/ha |
| Tolerant and intolerant hardwoods            | 245 \$/ha |

## 9. STRIP CUTTING WITH REGENERATION AND SOIL PROTECTION (1)

220 \$/ha

## 10. PLANTING

## With site preparation

|                     |                        |
|---------------------|------------------------|
| Bare-root seedlings |                        |
| Conventional size   | 220 \$/1 000 seedlings |
| Large size          | 360 \$/1 000 seedlings |
| Hybrid poplars      | 565 \$/1 000 saplings  |
| Container seedlings |                        |
| 67-50               | 175 \$/1 000 seedlings |
| 45-110 or cuttings  | 185 \$/1 000 seedlings |
| 25-200              | 270 \$/1 000 seedlings |
| 45-340 or 25-350-A  | 310 \$/1 000 seedlings |

## Without site preparation

|                     |                        |
|---------------------|------------------------|
| Bare-root seedlings |                        |
| Conventional size   | 235 \$/1 000 seedlings |
| Large size          | 375 \$/1 000 seedlings |
| Container seedlings |                        |
| 67-50               | 190 \$/1 000 seedlings |
| 45-110 or cuttings  | 200 \$/1 000 seedlings |
| 25-200              | 285 \$/1 000 seedlings |
| 45-340 or 25-350-A  | 325 \$/1 000 seedlings |

## 11. ENRICHMENT AND REINFORCEMENT PLANTING OF HARDWOODS AND PINE

530 \$/1 000 seedlings

## 12. SPREADING COMMERCIAL THINNING (1)

245 \$/ha

## 13. IMPROVEMENT CUTTING (1)

|                              |           |
|------------------------------|-----------|
| Tolerant hardwood            | 245 \$/ha |
| Mixed with tolerant hardwood | 245 \$/ha |
| Cedar                        | 235 \$/ha |

## 14. SELECTION CUTTING (1)

|                              |           |
|------------------------------|-----------|
| Tolerant hardwood            | 245 \$/ha |
| Mixed with tolerant hardwood | 245 \$/ha |
| Cedar                        | 235 \$/ha |

## 15. SELECTION CUTTING BY PATCHES (1)

245 \$/ha

## 16. SELECTION AND REGENERATION CUTTING BY PARQUETS (1)

230 \$/ha

## 17. SEEDLINGS RESERVE CUTTING

20 \$/ha

## 18. PRESELECTION CUTTING (1)

|                              |           |
|------------------------------|-----------|
| Tolerant hardwood            | 245 \$/ha |
| Mixed with tolerant hardwood | 245 \$/ha |

## 19. PINE SEEDING

|                |                                |
|----------------|--------------------------------|
| Aerial seeding | 35 \$/ha                       |
| Ground seeding | 140 \$/ha                      |
| Funnels        | 315 \$/1 000 microsites seeded |

## 20. SELECTION CUTTING FOR MAPLE SAP AND WOOD PRODUCTION (1)

385 \$/ha

## 21. MOSAICS CUTTING WITH REGENERATION AND SOIL PROTECTION (3)

|                    |           |
|--------------------|-----------|
| Inaccessible zones | 150 \$/ha |
| Accessible zones   | 55 \$/ha  |

## 22. PHYTOSANITARY PRUNING

410 \$/ha

4161

(1) The value admitted as payment of dues includes some harvesting, road construction or tree marking costs.

(2) The value admitted as payment of dues can be increased by 60 \$/ha if marking of trees takes into account the trees to preserve.

(3) Treatment admissible at the latest until March 31st 2003. The inaccessible zones are the forest tariffication zones appearing at Schedule I of the Regulation respecting forest royalties, as modified by the decree number 21-2000 of January 12th 2000, and having the following numbers: 220, 227, 228, 229, 230, 231, 232, 233, 236, 237, 239, 837, 838, 839, 840, 841, 842, 913, 914, 915, 916, 917, 918, 919, 920, 922, 923. The accessible zones are all the other forest tariffication zones appearing in that Schedule that do not have the numbers previously indicated.

Note: The expression "tolerant hardwoods" includes white pine and red pine.