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## ABSTRACT

This bibliography is a catalogue of the scientific, technical and popular reports produced by authors funded, at least in part, by the Forest Management Subsidiary Agreement. It includes journal papers, Information Reports, contributions to Canadian Forestry Service Research Notes, contributions to symposium proceedings, leaflets, pamphlets and newsletter articles, produced between 1978 and 1986.

Three indices are provided. The first lists reports by project number, the second by author, and the third by subject (i.e., by key words in alphabetical order).

## RÉSUMÉ

Cette bibliographie est un catalogue des rapports de nature scientifique et technique et d'intérêt général rédigés par des auteurs grâce à la contribution financière, au moins en partie, résultant de l'entente auxiliaire sur l'aménagement forestier. Elle inclut des tirés à part, des rapports d'information, des articles pour la Revue de recherches du Service canadien des forêts et pour des comptes-rendus de colloques, de même que des dépliants, des brochures et des articles de bulletins qui ont été préparés de 1977 à 1986.

Elle inclut trois index. Le premier groupe les rapports selon le numéro du projet, le second selon l'auteur et le troisième selon le sujet (c'est-à-dire à l'aide de mots-clés en ordre alphabétique).

## FOREWORD

Many of the reports listed in this bibliography are unpublished typescripts and others, though published, are now out of print. Hence, in many cases, requests can be filled only by making photocopies, and readers are therefore urged to be highly selective in placing orders. Nevertheless, every effort will be made to fulfill requests directed to:

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## INTRODUCTION

The Forest Management Subsidiary Agreement (FMSA), signed in 1978, committed up to \$82 million to a variety of forest management activities, to be funded equally by Canada and Ontario.

The FMSA provided capital funding for the construction of forest access roads to facilitate all aspects of harvesting and forest management, for the expansion of tree-nursery facilities, and for the establishment of remote silvicultural camps to support the demands of a rapidly expanding forest management program. The agreement included a program of data collection and applied research and development, called the Assessment Program, which was aimed at solving specific forest management problems. A secondary objective was to determine the potential for increasing the utilization of northern hardwoods.

Twenty-three research and development projects were carried out under the Assessment Program, and these produced useful new information, techniques and equipment in a wide variety of areas, including vegetative propagation of superior spruce planting stock, production of accelerated transplants, mechanized collection of black spruce seed, extended greenhouse culture of container stock, and the effect of interactions of stock quality, site preparation and vegetation control on the performance of container stock plantings.

In all, about 50 published and 40 unpublished reports were produced from studies funded, at least in part, by the FMSA.

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No. 585025 - Forest Stand Structure and Dynamics

CARLETON, T.J. 1985. Postdisturbance stand structure and composition in the Ontario clay belt. Univ. Toronto, Fac. For., Toronto, Ont. (unpubl. ms) 15 p.

No. 585026 - Soil Nutrient Regime and Forest Growth

TIMMER, V.R. 1984. Quantifying soil nutrient regime for black spruce in the claybelt. Univ. Toronto, Fac. For., Toronto, Ont. (unpubl. ms) 105 p.

No. 585027 - Site Preparation and Aerial Seeding of Black Spruce

FLEMING, R.L. 1980. Upland scarification and seeding trials. p. 5 in C.A. PLEXMAN, Ed. Forestry Research Newsletter. Dep. Environ., Can. For. Serv., Sault Ste. Marie, Ont. Fall-Winter issue.

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No. 585030 - Prescribed Fire Research

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- YOUNG, J.H. 1983. Black spruce cone combine in Sioux Lookout District OMNR: winter of 1982-1983. Ont. Min. Nat. Resour., Sioux Lookout, Ont. (unpubl. ms) 25 p.

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No. 585036 - Poplar and Willow Selection and Breeding

- BALATINECZ, J.J. and PENG, P.W.T. 1983. A study of balsam poplar wood quality in Ontario. Univ. Toronto, Fac. For., Toronto, Ont. (unpubl. ms) 71 p.
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No. 585036 - Poplar and Willow Selection and Breeding (Cont'd)

- ECKENWALDER, J.E. 1984. Gene pool selection of certain tree species for Northern Ontario. Report No. 4. Clarifications, recommendations and supplementary information. Ont. Min. Nat. Resour., Toronto, Ont. (unpubl. ms) 78 p. (see also Project No. 585038)
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No. 585038 - Tamarack Selection and Breeding

- ECKENWALDER, J.E. 1981. Gene pool selection of certain forest tree species for Northern Ontario. Report No. 1. Plan for selection, collection and transmittal for 1981. Ont. Min. Nat. Resour., Toronto, Ont. (unpubl. ms) 6 p. (see also Project No. 585036)
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No. 585038 - Tamarack Selection and Breeding (Cont'd)

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No. 585040 - Jack Pine Breeding

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No. 585041 - Container Planting and Handling

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No. 585042 - Container Planting, Bud Development and Overwintering Damage

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No. 585042 - Container Planting, Bud Development and Damage (Cont'd)

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- No. 585044 - Silvicultural Prescription for Container Planting (Cont'd)
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- photoperiod: see light intensity
- physiology: Day and Harvey 1981, 1984a,b; Buxton et al. 1981a,b
- Picea glauca*: Colombo 1982, Dominy 1985, Phillion et al. 1982, Wood and Dominy 1985
- Picea mariana*: Brown and Clarke 1985; Fleming and Groot 1984; Sutton 1983; Armson et al. 1980; Phillion 1982a; Phillion and Mitchell 1984; Phillion et al. 1982d,e; Wood 1983; Wood and Dominy 1985
- Pinus banksiana*: Brown and Clark 1985; Danzmann and Buchert 1982; Wood 1983, Wood and Dominy 1985
- Pinus strobus*: Phillion et al. 1982, Hubbes 1980a,b, 1981, 1982
- Pinus sylvestris*: Phillion et al. 1982, 1983
- poplar study: see hardwood study
- Populus* spp.: Clark 1982, Hamilton 1983, Hubbes 1983, Hyun 1983
- Populus balsamifera*: Balatinecz and Peng 1983, 1984; Farmer 1984
- pregermination: Phillion 1981a,b
- prescribed burns: McRae and Armstrong 1984
- progeny tests: Phillion 1982a
- propagation cuttings: see light intensity, grafted stock
- provenance test: Farmer 1984

R

- regeneration assessment: Andersen 1983
- regeneration, black spruce: Wood and Jeglum 1984
- regeneration, clearcuts: Fleming and Groot 1984
- root-growth capacity: Sutton 1983
- rooting: Phillion et al. 1980, 1982, 1984a,b; Colombo 1984; Wood 1984b



S

- Scots pine: see *Pinus sylvestris*
- seedbed: Fleming and Foreman 1981
- seed distribution: Fleming et al. 1985
- seeding trials: Fleming 1980, Dominy and Wood 1985
- shelter spot seeding: see seeding trials
- shoot development: see bud development
- soil nutrient regime: Timmer 1984
- spot seeding: see seeding trials
- stand structure: Carleton 1985
- stock quality: Day and Harvey 1981, 1984a,b
- super seedlings: Phillion 1982b

T

- tamarack: see *Larix* spp.
- Timberland Tree Planter: Dellelce 1980

U

- upland scarification: Fleming 1980
- upland seeding: see aerial seeding

V

- vermiculite: see peat/vermiculite

W

- water stress: Cyr 1983  
see also drought tolerance
- white pine: see *Pinus strobus*
- white birch: see *Betula papyrifera*
- white spruce: see *Picea glauca*

winter damage:

Colombo 1984  
*see also* frost hardiness

wood quality:

Balatinecz and Peng 1983, 1984