



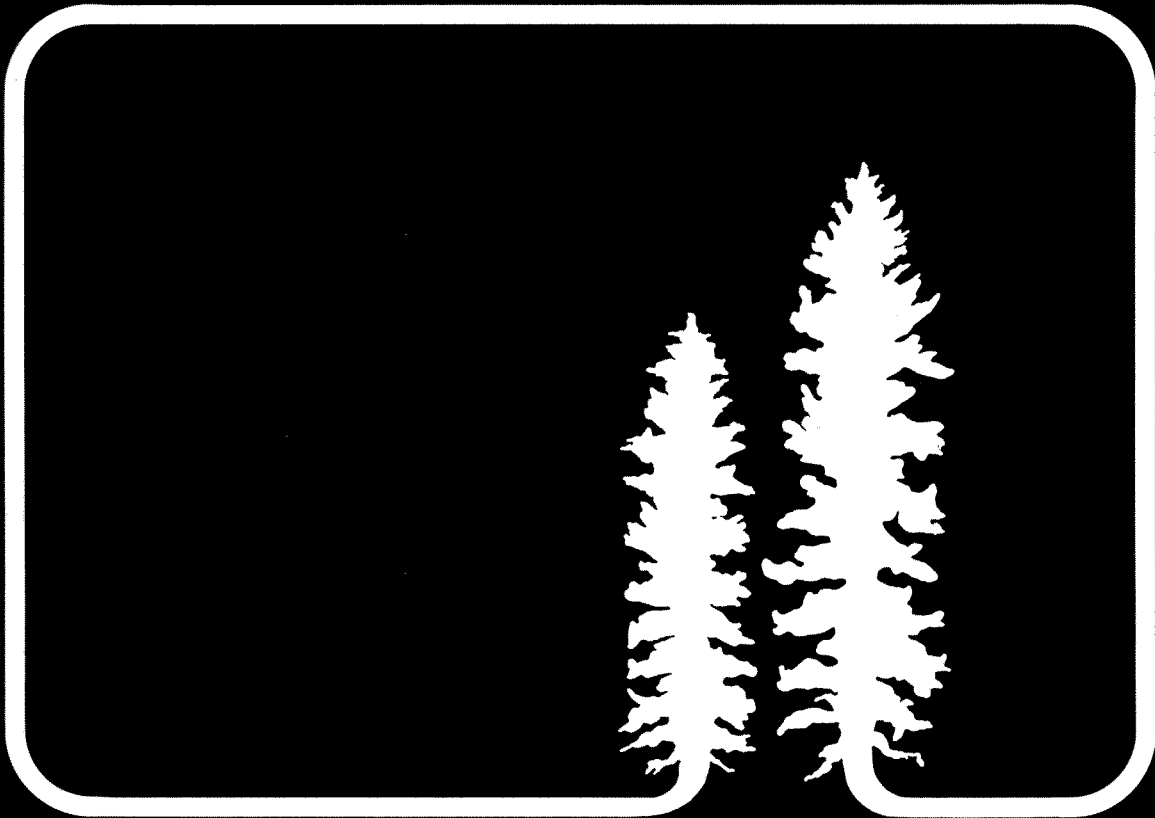
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Forest research bibliography, 1968-1975, with 1976-1979 supplement



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FOREST RESEARCH BIBLIOGRAPHY, 1968-1975

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INTRODUCTION

This bibliography lists forest research literature produced in the prairie and northern regions of Canada from 1968 to 1975. Before 1970 research was carried out at Forest Research Laboratories in Winnipeg and Calgary which administered the Manitoba-Saskatchewan and Alberta-Yukon-Northwest Territories Regions respectively. These two laboratories merged in 1970 to form the Northern Forest Research Centre, located in Edmonton. Since this bibliography lists literature dating back to 1968 it includes not only Northern Forest Research publications but those from the former Manitoba-Saskatchewan and Alberta-Yukon-Northwest Territories Regions in the last 2 years of their existence. A bibliography of research from the Manitoba-Saskatchewan Region prior to 1968 has already been published¹, and one for the Alberta-Yukon-Northwest Territories Region is currently in preparation.

¹ Hildahl V., R. Pratt and A. Campbell. 1968. Bibliography of forest research. Can. Dep. For. Rural Develop., For. Br., For. Res. Lab. Winnipeg, Manitoba. Liaison and Services Note MS-L-2.

SUBJECT INDEX

An index to the bibliography by subject matter has been provided. Entries are listed under 14 major topics which include both tree species and research and development programs. These major topics, listed alphabetically starting on the next page, are

Aspen and Poplar

Climate

Economics

Fire

Forest Growth and Yield

Forest Land Inventory and Classification

Forest Regeneration

Insects and Diseases

Jack Pine

Lodgepole Pine

Miscellaneous

Pollution and Reclamation

Watersheds

White Spruce

ASPEN AND POPLAR

(Populus tremuloides Michx. and P. balsamifera L.)

Anonymous 1971c, e, 1972c, 1974b; Barton and Wall 1968; Bella 1968d, 1971b, 1972b, 1975; Bella and DeFranceschi 1972; Bella and Hunt 1973; Carlson 1972a; Carlson and Lindquist 1968, 1969; Drouin and Wong 1975; Hildahl and Campbell 1975; Hocking 1970b; Ives 1973; Jarvis 1968; Jarvis and Tucker 1968a, b; Kiil 1970b; Raske 1974b; Roller et al. 1972; Shoup et al. 1968; Steneker 1969a, 1972, 1973, 1974a, b, c; Steneker and Prasad 1972; Steneker and Wall 1970, 1972; Steneker and Walters 1971; Thomas 1968; Wall 1969, 1971; Wall et al. 1971; Whitney and Baranyay 1968; Zalasky 1968a, b; Drouin and Kusch 1975d.

CLIMATE

Chrosciewicz 1975; Hocking 1973e; Johnstone 1970a; Longley and Powell 1971; Lubitz and Powell 1974; MacIver 1970a, b; MacIver et al. 1972, 1975; MacIver and Powell 1973; Powell 1970b, c, d, 1975b; Powell and MacIver 1975a, b; Powell et al. 1972; Powell and Nolasco 1970.

ECONOMICS

Anonymous 1972c, 1973a; Capel and Teskey 1971; Hocking 1972h; Smyth and Karaim 1972; Teskey and Smyth 1975a, b, c.

FIRE

A) Ecology

Kiil 1968, 1969a, 1970a, 1971a, b, 1974; Kiil and Grigel 1969.

B) Forecasting - Detection

Anonymous 1971b, 1972b, 1973b, 1975c; Grigel et al. 1971; Kiil 1970c; Kiil et al. 1973; Kiil and Quintilio 1969; Ponto and Lynch 1973.

C) Suppression

Anonymous 1971b, 1972b, 1973b, 1975c; Bradford 1973; Capel and Teskey 1970; Douglas 1974; Grigel 1970, 1971, 1974; Grigel and Lieskovsky 1972; Grigel et al. 1971, 1971, 1974, 1975; Lait and Taylor 1972; Lieskovsky et al. 1974; Ponto et al. 1974.

D) Prescribed Burning

Anonymous 1971b, c, 1973b, 1975b; Chrosciewicz 1974; Edean and Johnstone 1974a, b; Jarvis and Tucker 1968a, b; Kiil 1969a, b, 1970b, 1971b; Kiil and Chrosciewicz 1970; Quintilio et al. 1971; Sando and Dobbs 1970; Sims 1973.

FOREST GROWTH AND YIELD

A) Natural Stands

Bella 1968b, d; Bella and Hunt 1973; Chrosciewicz 1971; Johnstone 1970b, 1971, 1973, 1975; Kirby 1975; Kirby and Johnstone 1970.

B) Thinning - Fertilizing

Anonymous 1971c; Baker 1972, 1973; Bella 1972a, 1974a, b; Bella and DeFranceschi 1971, 1974a, c; Jarvis 1968; Steneker 1969b, c, 1974c; Steneker and Wall 1972.

C) Stand and Growth Models

Bella 1969, 1971a, b, 1972b, 1975.

FOREST LAND INVENTORY AND CLASSIFICATION

A) Forest Land Classification, Land Use

Adams and Zoltai 1969; Anonymous 1971c, 1975b; Brace 1973; Duffy and Nemeth 1969; Holland 1973; Jeffrey et al. 1968; Jurdant et al. 1973; Kabzems et al. 1972; Kirby 1973a; Kirby and Johnstone 1970; Kirby and Nolasco 1971; Lesko and Lindsay 1973; Zoltai 1968a, c, 1971b, 1972a, b, 1973a, c, 1974; Zoltai et al. 1969; Zoltai and Schultz 1971; Zoltai and Tarnocai 1968; Zoltai and Thie 1973.

B) Soil, Soil Types

Anonymous 1972a; Beke and Pawluk 1971; Crampton 1973c; Kalra 1968, 1971, 1972; Pettapiece and Zoltai 1974; Zoltai 1971a, 1975b; Zoltai et al. 1975; Zoltai and Tarnocai 1969, 1971, 1974, 1975.

C) Arctic Program

Anonymous 1972a; Crampton 1973a, b, 1973c; Peterson 1973, 1974; Peterson et al. 1974; Pettapiece and Zoltai 1974; Strang 1972, 1973a, b, c; Zoltai and Pettapiece 1973, 1974; Zoltai 1975c.

D) Parks Program

Coen and Holland 1973a, b, 1974a, b; Grigel et al. 1971; Kiil et al. 1973; Lesko 1973a; Lesko and Robson 1975; Petty and Gautreau 1973; Petty and Ives 1971.

E) Remote Sensing (ERTS)

Anonymous 1973d; Golding 1974c; Kirby 1973b, 1974a, b; Legge et al. 1974.

FOREST REGENERATION

A) Ecology

Carlson 1968; Cayford 1970; Dobbs and Oswald 1972; Hellum 1968a, 1972a, b; Lees 1972a, b; McMinn 1972; Sims 1968, 1970, 1972 1973; Sims and Bruce 1968, 1969; Sims and Buckner 1973; Sims and Campbell 1970; Sims and Mueller-Dombois 1968; Soos and Kolabinski 1974; Steneker 1972, 1973; Steneker and Prasad 1972; Steneker and Wall 1970; Steneker and Walters 1971.

B) Natural (Scarification)

Anonymous 1971c, 1972c, 1975b; Ball 1975; Bella and DeFranceschi 1972; Day 1970; Jarvis 1968; Johnson 1968; Lees 1970; Steneker 1969a, 1974a.

C) Artificial (Scarification)

Ackerman and Gorman 1969; Anonymous 1971c, 1972c, 1974b, 1975b; Bella 1968c; Bella and DeFranceschi 1974b; Carlson 1972b, c; Carlson and Nairn 1975; DeBoo et al. 1971; Dobbs 1971; Endean 1973; Endean and Carlson 1975; Endean and Hocking 1973; Froning 1972; Hocking 1971c, 1972a, b, c, i; Hocking and Cook 1972; Hocking and Endean 1974; Hocking and Mitchell 1973, 1975; Johnson 1973, 1974; Kalra 1972; Mitchell et al. 1972a, b; Nairn and Ives 1968; Smyth and Karaim 1972; Soos 1971; Soos and Brown 1970; Toman and Hocking 1973; Tucker et al. 1968; Waldron 1972, 1974; Walker and Johnson 1974, 1975; Walker et al. 1971.

D) Nurseries

Anonymous 1972a; Carlson and Belcher 1970e; Carlson and Lindquist 1968, 1969; Edwards 1973; Edwards and Holland 1973; Edwards et al. 1974; Hocking 1971e, 1972e, 1973d; Hocking and Nyland 1971; Hocking and Ward 1972; Holland and Edwards 1973.

E) Tree Improvement

Anonymous 1971a; Hellum 1968b, 1971; Klein 1969a, b, 1971a, b, c, d, 1973, 1975; Roller 1967, 1968a, b, c, 1970, 1971a, b, 1972; Roller et al. 1972; Soos and Brown 1970.

F) Cutting

Anonymous 1972c; Day 1970; Johnson 1968; Steneker 1974b.

INSECTS AND DISEASES

A) Insects

Anonymous 1971d, e, 1973c, 1974b, 1975b; Bradley and Hinks 1968; Brant and McDowall 1968, 1970; Brant and Melvin 1970; Buckner 1972a, b; Cerezke 1968, 1970a, b, 1971, 1972a, b, 1973a, b, c, 1974, 1975; Cumming 1968; DeBoo and Hildahl 1968a, b, 1971; DeBoo et al. 1971; Drouin 1975a, b; Drouin and Kusch 1974, 1975a, b, c; Drouin and Wong 1975; Funk and Sutton 1972; Heron 1968, 1971, 1972; Heron and Drouin 1969; Hildahl 1971, 1974, 1975a, b; Hildahl and Campbell 1975; Hildahl and DeBoo 1973; Hildahl and Peterson 1970, 1974; Hinks and Muldrew 1968; Ives 1968a, b, 1973, 1974; Ives et al. 1968; Kusch 1975; Lanier and Raske 1970; Lanier and Wood 1968; McGhehy 1968, 1971; Melvin et al. 1969, 1970; Melvin and Wong 1969; Melvin et al. 1970; Oswald and Minty 1970, 1971; Peterson and DeBoo 1969a, b; Petty and Gautreau 1973; Petty and Ives 1971; Powell and Skaley 1975; Raske 1972a, b, 1973a, b, c, d, 1974a, b; Reid 1969; Reid and Gates 1970; Reid and Shrimpton 1971; Robinson and Bradley 1968; Safranyik and Jahren 1970a, b; Safranyik and Graham 1971; Safranyik and Raske 1970; Safranyik et al. 1974, 1975; Safranyik and Vithayosai 1971; Sanders et al. 1974; Schofer 1970; Shepherd and Brown 1971; Shrimpton 1972, 1973a, b, 1974; Shrimpton and Reid 1973; Sinka and Whitney 1969; Smith 1973; Smith and Raske 1968; Stevenson and Petty 1968; Still and Wong 1973; Turnock 1968, 1969a, b, 1972, 1973; Turnock and Muldrew 1971a, b, 1972; Watson 1970, 1971; Whitney and Baranyay 1968; Wilkinson 1968, 1971 to 1975; Wong 1968a, b, c, 1969a, b, 1971, 1972a, b, c, d, e, 1974a, b, 1975; Wong and Ives 1969; Wong et al. 1970; Wong and Melvin 1969, 1973, 1974; Wong and Milliron 1972.

B) Diseases

Anonymous 1971d, e, 1973c, 1974b; Baranyay 1968b, 1970; Baranyay et al. 1974; Baranyay and Funk 1969; Baranyay and Safranyik 1970; Belcher and Carlson 1968; Blauel 1973b; Bohaychuk and Whitney 1973; Carlson 1969, 1970a, 1972a, 1973, 1974a, b; Carlson and Belcher 1969a, b, c, 1970a, b, c, d, 1971a, b, 1972a, b, c; Carlson and Esau 1971, 1972; Carlson and Hamm 1970; Carlson and Huber 1975; Helms et al. 1971; Henderson and Hiratsuka 1974; Hiratsuka 1968, 1969, 1970a, b, 1971, 1973a, b, c, 1974, 1975; Hiratsuka and Maruyama 1968a, b, 1974; Hocking 1968, 1969, 1970a, b, 1971a; Hocking and Cook 1972; Hocking and Fushthey 1971; Krebill and Hiratsuka 1972; Laut 1968; Laut et al. 1969; Loman 1970a, b, c, 1971, 1972; Morgan and Carlson 1968; Morgan et al. 1969; Muir 1970, 1972, 1973a, b, 1975; Muir and Robins 1973; Parmelle and Hiratsuka 1970; Petty and Gautreau 1973; Petty and Ives 1971; Powell 1968, 1969a, b, c, 1970a, e, 1971a, b, c, d, f, g, h, 1972a, b, c, 1973b, c, 1974a, d, 1975a, c; Powell and Hiratsuka 1968, 1969a, b, 1973a, b; Powell and Wilkinson 1973; Powell et al. 1972; Robins and Susut 1974; Shrimpton and Watson 1971; Shrimpton and Whitney 1968; Smith 1971; Sutton 1968a, b, c, d, 1969a, b, c, d, e, f, g, 1970a, b, 1973; Sutton and Chao 1970; Sutton and Kobayaski 1969; Sutton and Laut 1970; Sutton and Lawrence 1969; Sutton and Sandhu 1969a, b; Thomas 1968; Van Groenewould and Whitney 1969; Wall 1969, 1971, 1972, 1973; Whitney R. and Bohaychuk 1969, 1971; Whitney R. et al. 1972; Whitney R. and Denyer 1968, 1969, 1970; Wilkinson 1971 to 1975; Zalasky 1968a, b, 1970, 1971, 1972, 1973, 1974, 1975a, b, c; Zalasky et al. 1968, 1971.

C. Surveys

Baranyay 1968a, Caltrell and Melvin 1974; Emond et al. 1974; Emond and Still 1974; Gautreau and Melvin 1974a, b; Gremmer and Parmalee 1972; Ives 1972; Ives et al. 1970, 1971, 1969, 1968, 1967, 1972, 1973, 1974; Lawrence and Hiratsuka 1972a, b, c, d, e; McDowall et al. 1968, 1969, 1970; Mortenson et al. 1974, 1972, 1973; Patterson et al. 1973, 1974, 1975; Patterson and Still 1972, 1973; Petty 1968; Petty et al. 1970, 1974, 1972, 1973; Robins et al. 1971, 1972, 1973, 1974; Smith and Melvin 1974a, b; Still et al. 1974; Susut and Melvin 1974; Tripp and Blauel 1968; Tripp and Robins 1967, 1968, 1969; Tripp et al. 1969; Wong et al. 1973.

JACK PINE

(Pinus banksiana Lamb.)

Anonymous 1971c, 1973b, 1975b; Ball 1975; Bella 1968b, 1974b; Bella and DeFranceschi 1971, 1974a, 1974b, 1974c; Bradley and Hinks 1968; Brant and McDowall 1968, 1970; Brant and Melvin 1970; Bruce and Sims 1970; Buckner 1972a, b; Carlson 1969, 1972b, c, 1973; Carlson and Belcher 1969a, 1970a, b, 1971a, 1972a; Carlson and Huber, 1975; Carlson and Nairn 1975; Cayford 1970; Cayford et al. 1967; Chrosciewicz 1971, 1974; DeBoo and Hildahl 1968a, b, 1971; Dobbs 1971; Dobbs and Oswald 1972; Klein 1969a, 1971a, 1973; Muir and Robins 1973; Shoup and Nairn 1970; Sims 1968, 1970, 1972, 1973; Sims and Bruce 1968, 1969; Sims and Buckner 1973; Soos and Kolabinski 1974; Steneker 1969c; Walker et al. 1971; Whitney et al. 1972; Wong et al. 1973.

LODGEPOLE PINE

(Pinus contorta Dougl. var. latifolia Engelm.)

Ackerman and Gorman 1969, 1973c, d, 1975b; Baranyay 1968b, 1970; Baranyay and Safranyik 1970; Bella 1974a; Carlson and Belcher 1971b, 1972b; Cerezke 1968, 1970a, b, 1972b, 1973b, c, 1974; Endean and Carlson 1975; Endean and Hocking 1973; Endean and Johnstone 1974a; Etter 1969b, 1972; Etter and Carlson 1973; Hocking and Mitchell 1973, 1975; Johnstone and Keays 1973; Kiil 1968, 1971a; Kirby 1975; Kirby and Johnstone 1970; Loman 1970a, b, c; Muir 1970, 1972, 1973b; Parmelle and Hiratsuka 1970; Powell 1968, 1971c, h, 1975a; Powell and Hiratsuka 1973a, Powell and Skaley 1975; Reid and Gates 1972; Reid and Shrimpton 1971; Safranyik and Jahrem 1970a, b; Safranyik et al. 1974; Shrimpton 1972, 1973b, 1974; Shrimpton and Reid 1973; Shrimpton and Watson 1971; Stevenson and Petty 1968; Swanson 1975a; Walker and Johnson 1975; Whitney 1971.

MISCELLANEOUS

Ali and Kalra 1974; Bachelor et al. 1970; Bannatyne et al. 1970; Barton and Wall 1968; Bella 1968a; Buckner 1968; Burns and Kasper 1968; Campbell and Pratt 1974; Carlson 1970b; Cayford et al. 1967; Day 1972; DeBoo et al. 1971; Denyer 1974a, b; Denyer and Stevenson 1974; Dobbs 1969; Douglas et al. 1969; Duffy and Sheperd 1969; Etter 1969a, b, 1971, 1972; Etter and Carlson 1973; Hildahl et al. 1968; Hocking 1971b, d, g, h, 1972d, f, g, 1974a, b, c; Hocking and Fushtey 1971; Hocking et al. 1972; Jeffrey et al. 1970; Kalra and Edwards 1974; Kalra and Radford 1975; Kasper and Chow 1970; Kirby and Nolasco 1971; Kojima and Dyck 1975; Kolabinski 1969; Lesko 1973b; McMinn 1972; Lesko and Walker 1969; Oswald and Nokes 1970; Peterson et al. 1970; Powell et al. 1975; Reid and Gates 1972; Roller 1969; Shoup and Nairn 1969, 1970; Shoup et al. 1968; Shoup and Waldron 1968; Soos 1971, 1974; Stevenson 1974; Szabo and Kasper 1971; Taylor et al. 1968; Thomas 1968; Waldron and Dyck 1975; Waldron and Hildahl 1974; Walker 1968; Whitney and Palmer 1968; Zoltai 1968b, 1969, 1973b, 1975a; Zubrowski 1968.

POLLUTION AND RECLAMATION

A) Air

Anonymous 1975a; Baker et al. 1973; Blauel 1973a, c, d; Blauel and Hocking 1973, 1974b; Bliss and Peterson 1973; Bonnett et al. 1970; Hocking 1971f, 1973a, b, c, 1975; Hocking and Etter 1969; Hocking and Peterson 1972; Hocking and Reiter 1973; Johnstone and Etter 1972; Loman et al. 1972; Wong and Melvin 1973.

B) Water and Land Reclamation

Anonymous 1971e, f, 1975a; Blauel and Hocking 1974a; Bliss and Peterson 1973; Bruce and Sims 1970; Douglas 1974; Etter et al. 1972; Hocking 1971f, 1972h; Hocking and Macdonald 1974; Hocking et al. 1971; Kirby 1974b; Lesko 1974a, b; Lesko et al. 1975; Nyborg et al. 1974; Peterson 1973; Peterson and Etter 1970.

C) Clear Cutting

Anonymous 1971f, 1974a; Cerezke 1971; Endean et al. 1971; Hillman 1971; Johnson et al. 1971; Kiil 1971c; Loman 1971; MacIver and Powell 1973; Powell 1971e; Singh et al. 1974.

WATERSHEDS

Anonymous 1971f, 1972a, 1973a, 1974a; Golding 1968a, b, 1969, 1970a, b, c, 1972a, b, c, 1973a, 1974a, b, c, d; Golding and Harlan 1972; Golding and Storr 1974; Hillman 1971, 1972a, b; Jeffrey 1968; Kirby and Ogilvie 1969; Rothwell 1971, 1973, 1974a, 1975; Singh et al. 1974; Swanson 1970a, b, 1972, 1975a, b, c.

WHITE SPRUCE

(Picea glauca (Moench.) Voss)

Ackerman and Gorman 1969; Anonymous 1971e; Bella 1968c; Bella and DeFranceschi 1974b; Carlson 1968; Carlson and Belcher 1970a, b, 1972c; Cerezke 1972a; Dobbs 1971; Endean and Johnstone 1974b; Etter 1971, 1972; Hellum 1968a, b, 1971, 1972a, b; Hildahl and Peterson 1970; Hocking 1971a, c, 1972c, i; Hocking and Endean 1974; Hocking and Etter 1969; Hocking and Mitchell 1975; Hocking and Ward 1972; Ives 1974; Jarvis and Tucker 1968a, b; Kirby 1975; Lees 1970; McMin 1972; Steneker 1969a, b, 1974b; Tucker et al. 1968; Van Groenewoud and Whitney 1969; Whitney and Denyer 1968, 1969.

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- _____. 1971c. Silviculture. *Environ. Can., Can. For. Serv., Prairie Region. Edmonton, Alberta. For. Rep. 1(2).*
- _____. 1971d. Special report -- forest insects and diseases. *Environ. Can., Can. For. Serv., North. For. Res. Cent. Edmonton, Alberta. For. Rep. 1(3).*
- _____. 1971e. Pesticides and the environment. *Environ. Can., Can. For. Serv., North. For. Res. Cent. Edmonton, Alberta. For. Rep. 1(4).*
- _____. 1971f. Watersheds. *Environ. Can., Can. For. Serv., North. For. Res. Cent. Edmonton, Alberta. For. Rep. 1(5).*
- _____. 1972a. Soils research. *Environ. Can., Can. For. Serv., North. For. Res. Cent. Edmonton, Alberta. For. Rep. 1(6).*
- _____. 1972b. Fire. *Environ. Can., Can. For. Serv., North. For. Res. Cent. Edmonton, Alberta. For. Rep. 2(1).*
- _____. 1972c. Silviculture. *Environ. Can., Can. For. Serv., North. For. Res. Cent. Edmonton, Alberta. For. Rep. 2(2).*
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**1976-1979 SUPPLEMENT TO
FOREST RESEARCH BIBLIOGRAPHY, 1968-1975**

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SUBJECT INDEX

An index to the bibliography by subject matter has been provided. Entries are listed under 14 major topics which include both tree species and research and development programs. These major topics, listed alphabetically starting on the next page, are

Aspen and Poplar
Climate
Economics

Fire
Forest Growth, Yield and Inventory
Forest Land Inventory and Classification
Forest Regeneration
Insects and Diseases
Jack Pine
Lodgepole Pine
Miscellaneous
Pollution and Reclamation
Watersheds
White Spruce

ASPEN AND POPLAR
(*Populus tremuloides* Michx. and
P. balsamifera L.)

Drouin 1976; Hildahl 1977a; Ives and Muldrew 1978; Johnstone 1977; Kusch 1977a; Singh 1976; Steneker 1976a, b; Still 1976; Swanson and Stevenson 1971; Wong 1979b; Wong and Melvin 1976; Zalasky 1976b, 1977b.

CLIMATE

Baker *et al.* 1976, 1977; Hillman *et al.* 1978; Powell 1976, 1977a, b, c, d, e, 1978a, b, c, 1979; Powell and MacIver 1976, 1977, 1978.

ECONOMICS

Capel and Teskey 1976; Waldron and Logan 1979.

FIRE

A) Ecology

Dubé 1978; Fahnestock 1976; Kiil 1975; Kiil and Quintilio 1977; Quintilio 1978; Quintilio *et al.* 1977; Sims 1976.

B) Forecasting—Detection

Kiil and Quintilio 1977; Kiil *et al.* 1977; Niederleitner 1976a, b, 1977; Niederleitner and Bihuniak 1976; Quintilio 1979.

C) Suppression

Hodgson, and Newstead 1978; Kiil 1975; Kiil and Quintilio 1977; Niederleitner 1976c; Quintilio 1972, 1979; Quintilio and Anderson 1976.

D) Prescribed Burning

Chrosiewicz 1976, 1978a, b, c, d; Dubé 1978; Kiil and Quintilio 1977; Quintilio *et al.* 1977; Sims 1976.

**FOREST GROWTH, YIELD,
AND INVENTORY**

A) Natural Stands

Johnstone 1976c, 1977; Kirby and van Eck 1977.

B) Thinning—Fertilizing

Baker 1977b; Bella 1978; Bella and De Franceschi 1977; Lesko and Soos 1976.

**FOREST LAND INVENTORY AND
CLASSIFICATION**

A) Forest Land Classification, Land Use

Holland and Rennie 1978; Kojima and Krumlik 1979; Walker *et al.* 1978; Zoltai 1971a, b, 1977a, c; Zoltai and Boissonneau 1971; Zoltai and Johnson 1977, 1978; Zoltai and Tarnocai 1976.

B) Soil, Soil Types

Coen and Holland 1976; Zoltai 1977c, 1978b; Zoltai and Tarnocai 1976; Zoltai *et al.* 1978; Zoltai and Woo 1976.

C) Arctic Program

Tarnocai and Zoltai 1978; Woo and Zoltai 1977; Zalasky 1978b; Zoltai 1976a, b, 1977a, b, 1978a, b, 1979; Zoltai and Johnson 1977, 1978; Zoltai *et al.* 1978; Zoltai and Woo 1976; Zoltai and Zalasky 1978.

D) Parks Program

Coen and Holland 1976; Kirby *et al.* 1976; Walker *et al.* 1978.

E) Remote Sensing (ERTS)

Ball and Kolabinski 1979; Kirby *et al.* 1976; Niederleitner and Bihuniak 1976.

FOREST REGENERATION

A) Ecology

Carlson 1976, 1977, 1979; Sims 1975.

B) Natural

Ball and Kolabinski 1979; Bella 1976; Bella and De Franceschi 1978; Johnson and Gorman 1977; Johnstone 1976a, b, 1978; Lees 1976; Steneker 1976b.

C) Artificial

Anon. 1976; Bella 1976; Bella and De Franceschi 1978; Carlson 1979; Carlson and Endean 1976; Carlson and Nairn 1977; Johnson 1977; Johnson and Walker 1976; Klein 1976, 1977, 1979; Nairn and Froning 1977; Piesch and Stevenson 1976; Sims 1975; Steneker 1976a; Walker 1978; Walker and Johnson 1980; Zalasky 1978a.

D) Nurseries

Anon. 1976; Carlson 1976, 1977, 1979; Carlson and Endean 1976; Carlson and Huber 1976; Carlson and Nairn 1977; Carlson and Johnstone 1979; Drouin and Kusch 1978b; Edwards 1977a, b, c; Huber and Carlson 1977; Zalasky 1977a.

E) Tree Improvement

Klein 1976, 1977, 1979.

F) Harvesting

Golding 1968a, 1969a, 1970, 1972a, 1973a, b, 1974b, 1977e; Golding and Swanson 1978; Johnson and Gorman 1977; Johnstone 1976a, b, 1978; Lees 1976; Rothwell 1978; Singh and Kalra 1975, 1977b; Steneker 1976b; Swanson 1974b; Swanson and Hillman 1977a, b.

INSECTS AND DISEASES

A) Insects

Campbell and Hildahl 1977; Caltrell 1976; Cerezke 1977a, b; Drouin 1976, 1977a, b, 1978a, b; Drouin and Kusch 1976a, b, 1977a, b, 1978a, b, c, 1979a, b; Emond and Caltrell 1977; Hildahl 1977a; Ives 1976a, b, 1977; Ives and Muldrew 1978; Ives and Petty 1975;

Kusch 1976a, b, c, 1977a, b, c; Nairn and Froning 1977; Patterson 1976; Patterson and Tidsbury 1977; Petty *et al.* 1976; Smith 1978; Stevenson *et al.* 1978; Still 1976; Tidsbury 1976; Waldron and Logan 1978; Wong 1976, 1977a, b, c, 1979a, b; Wong and Melvin 1976; Wong *et al.* 1977; Wong *et al.* 1977; Wong and Petty 1978.

B) Diseases

Campbell and Hildahl 1977; Carlson and Huber 1976; Emond and Caltrell 1977; Hildahl 1976a, b, c, 1977b; Hiratsuka 1977; Hiratsuka and Funk 1976; Hiratsuka and Maruyama 1976; Hiratsuka and Powell 1976; Hiratsuka and Sato 1976; Hiratsuka and Takai 1978; Hiratsuka *et al.* 1979; Ives and Petty 1975; Patterson 1976; Tsuneda and Hiratsuka 1979; Waldron and Logan 1978; Zalasky 1976e.

C) Climatic Damage

Huber and Carlson 1977; Maruyama 1978; Muir 1977a, b; Patterson and Tidsbury 1977; Petty *et al.* 1976; Smith 1976; Zalasky 1976a, b, c, d, 1977a, b, 1978c.

JACK PINE

(*Pinus banksiana* Lamb.)

Carlson and Huber 1976; Carlson and Nairn 1977; Chrosciewicz 1978a, b, c; Hiratsuka and Powell 1976; Huber and Carlson 1977; Khan and Malhotra 1977, 1978; Nairn and Froning 1977; Quintilio *et al.* 1977; Sarkar and Malhotra 1979c; Sims 1975, 1976.

LODGEPOLE PINE

(*Pinus contorta* Dougl. var. *latifolia* Englem.)

Baker 1977a; Bella 1978; Bella and De Franceschi 1977; Carlson 1976, 1979; Dubé 1978; Hiratsuka and Powell 1976; Johnson and Walker 1976; Johnstone 1976a, b, c; Kusch 1977b; Malhotra 1977; Quintilio 1972; Walker 1978; Walker and Johnson 1980; Wong and Petty 1978; Zalasky 1976e, 1978a, c.

MISCELLANEOUS

Brace 1976, 1978; Brace and Froning 1976; Brace and Stewart 1977; Capel and Teskey 1976; Delorme *et al.* 1977, 1978; Dendwick 1977; Dendwick *et al.* 1976; Logan and Waldron 1979; Peterson and Waldron 1978; Rook *et al.* 1976; Stevenson *et al.* 1976a, b; Zoltai 1976b.

POLLUTION AND RECLAMATION

A) Air and Water

Baker 1977a; Baker *et al.* 1976, 1977; Blauel and Edwards 1976; Blauel and Lesko 1976; Hocking and Blauel 1977; Khan and Malhotra 1977, 1978; Malhotra 1976a, b, c, 1977; Malhotra and Blauel 1978; Malhotra and Hocking 1976; Nyborg *et al.* 1976; Sarkar and Malhotra 1979a, b, c; Skorepa and Vitt 1976.

B) Land Reclamation

Johnson and Lesko 1977; Lesko and Soos 1976; Sims *et al.* 1977.

WATERSHEDS

Cerezke 1977a, b; Fizera 1977; Golding 1968a, b, c, 1969a, b, 1970, 1972a, b, 1973a, b, 1974a, b, c, d, e, 1977a, b, c, d, e, 1978; Golding and Stanton 1972; Golding and Swanson 1978; Harlan and Golding 1970; Hillman *et al.* 1978; Powell 1977d; Powell and MacIver 1976; Rook *et al.* 1976; Rothwell 1978; Singh 1976; Singh and Kalra 1975, 1976, 1977a, b; Storr and Golding 1976; Swanson 1970a, b, 1971, 1972a, b, 1974a, b, 1975a, b, 1977; Swanson and Hillman 1977a, b; Swanson and Logan 1977; Swanson and Stevenson 1971.

WHITE SPRUCE

(*Picea glauca* (Moench.) Voss)

Ball and Kolabinski 1979; Carlson 1976, 1979; Carlson and Endean 1976; Drouin 1977b, 1978a; Golding 1969a, 1972a, 1973a, 1974b; Johnson and Gorman 1977; Johnson and Walker 1976; Johnstone 1976b, 1977, 1978; Kusch 1976c; Singh 1976; Tidsbury 1976; Walker and Johnson 1980.

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