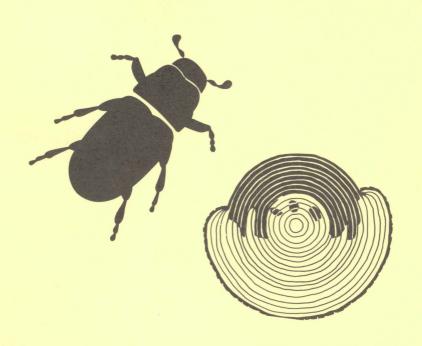
FIDS Report 87-10

MAPS OF MAJOR FOREST **INSECT INFESTATIONS: NELSON FOREST REGION** 1928-1986

J. Vallentgoed



Forest Insect and Disease Survey

Canadian Forestry Service Pacific Forestry Centre



Government of Canada Gouvernement du Canada

Canadian Forestry Service

Service. canadien des forêts

FIDS Report 87-10

MAPS OF MAJOR FOREST INSECT INFESTATIONS: Nelson Forest Region 1928-1986

J. Vallentgoed Forest Insect and Disease Survey

> Canadian Forestry Service Pacific Forestry Centre 506 West Burnside Road Victoria, B.C., V8Z 1M5

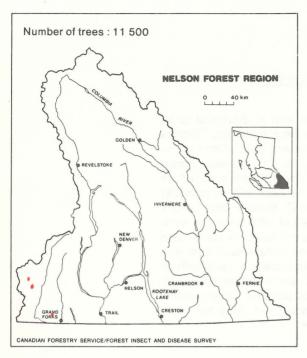
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ALPINE FIR PESTS	
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Introduction

This report complements and is designed to be used in conjunction with the publication, "History of Population Fluctuations and Infestations of Important Forest Insects in the Nelson Forest Region". The maps are predominantly based on aerially visible damage as recorded in primarily Forest Insect and Disease Survey publications and internal reports. Areas of infestations or numbers of trees affected are not listed on some maps and some maps have been extrapolated from text, in a dearth of specific information, especially in earlier outbreak periods, and in association with certain pests. Area* designates areas within which infestations occurred and does not imply damage throughout the entire area.

MOUNTAIN PINE BEETLE



Total area: 26 000 ha

REVELSTOKE

NEW DERIVER

OCAMBROOK O

NELSON

COTEMAT

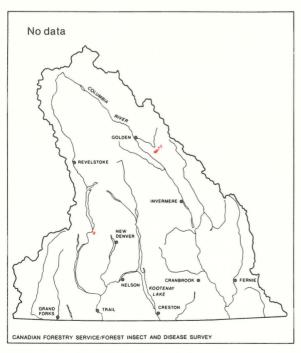
LAKE

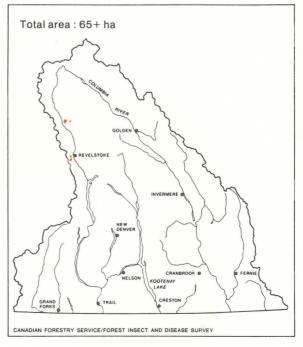
CRESTON

CANADIAN FORESTRY SERVICE/FOREST INSECT AND DISEASE SURVEY

Mountain pine beetle, 1928

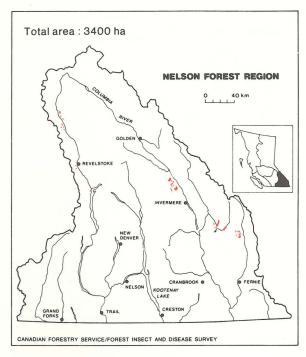
Mountain pine beetle, 1929-46





Mountain pine beetle, 1947

Mountain pine beetle, 1948



NO data

OCIDEN

OCIDEN

OCIDEN

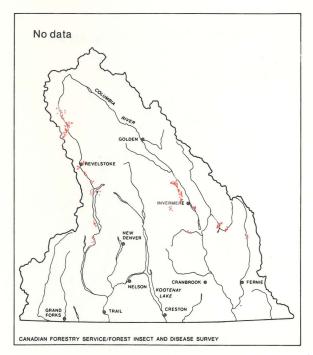
NEW BENVER

OCIDEN

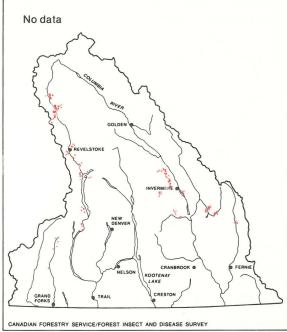
O

Mountain pine beetle, 1949

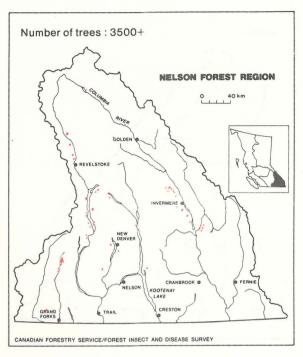
Mountain pine beetle, 1950



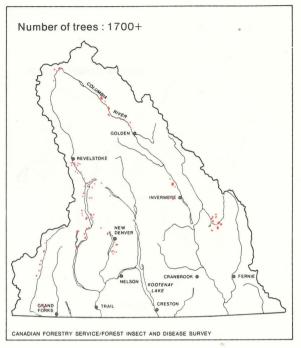
Mountain pine beetle, 1951-52



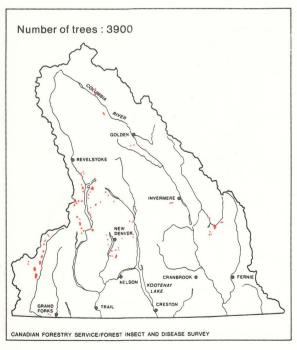
Mountain pine beetle, 1953-54



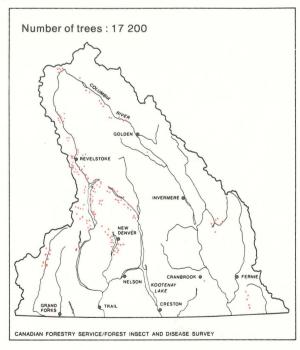
Mountain pine beetle, 1955-58



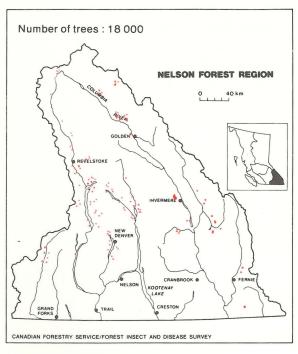
Mountain pine beetle, 1959-60



Mountain pine beetle, 1961



Mountain pine beetle, 1962



Number of trees: 26 000

REVELSTOKE

INVERMERE

CRANBROOK B

KOOTENAY

LAKE

CRESTON

CRANBROOK B

KOOTENAY

LAKE

CRESTON

CRANBROOK B

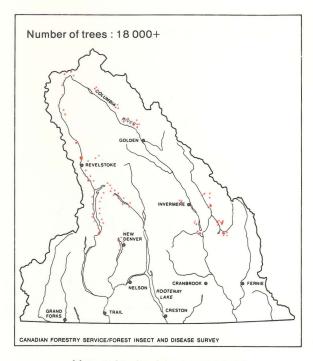
KOOTENAY

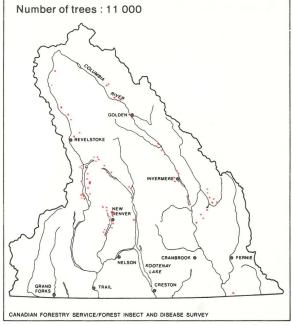
LAKE

CRESTON

Mountain pine beetle, 1963

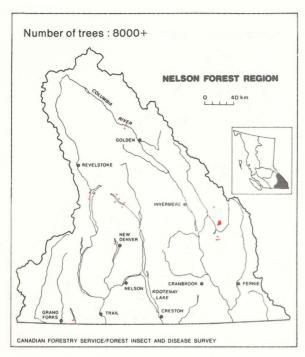
Mountain pine beetle, 1964





Mountain pine beetle, 1965-66

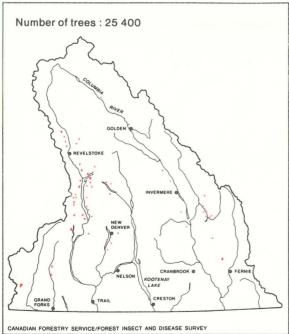
Mountain pine beetle, 1967-68



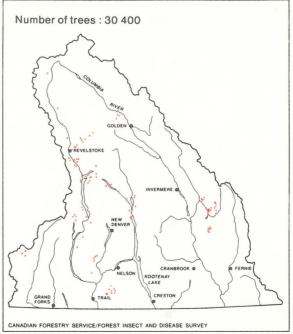
Number of trees: 4800

Mountain pine beetle, 1969

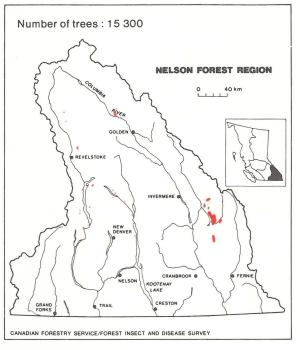
Mountain pine beetle, 1970



Mountain pine beetle, 1971



Mountain pine beetle, 1972



Total area: 800 ha

GOLDEN

REVELSTOKE

INVERMERE

CARABBROOK ©

CRANBROOK ©

MELSON

COTERNY

LAKE

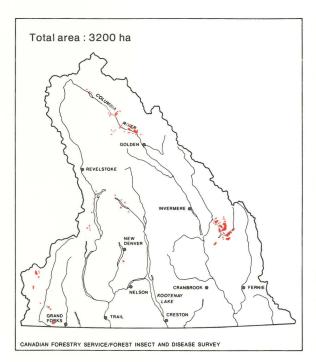
CRESTON

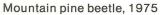
CARABBROOK ©

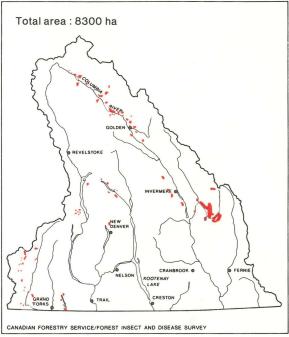
CRANBROOK ©

Mountain pine beetle, 1973

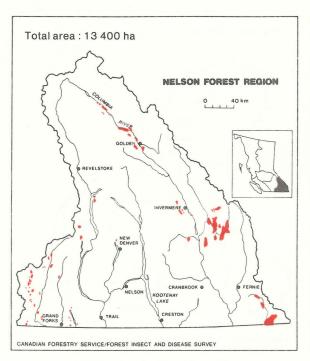
Mountain pine beetle, 1974







Mountain pine beetle, 1976



Total area: 19 150 ha

GOLDEN

NEW DERVER

NEW DERVER

NEW DERVER

CRANBROOK ©

NELSON KOOTEMAY

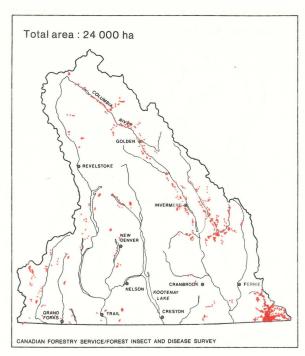
LAKE

CRESTON

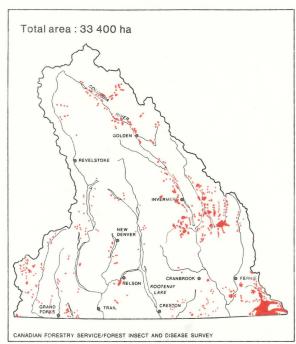
CANADIAN FORESTRY SERVICE/FOREST INSECT AND DISEASE SURVEY

Mountain pine beetle, 1977

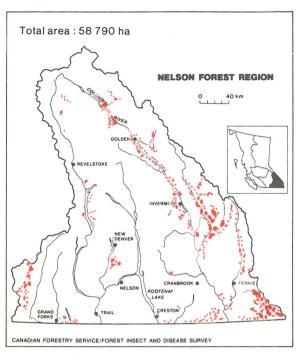
Mountain pine beetle, 1978



Mountain pine beetle, 1979



Mountain pine beetle, 1980



Total area: 38 450 ha

GOLDEN

REVELSTOKE

NELSON

CANABBOOK O

RESTON

CANABBOOK O

RESTON

CANABBOOK O

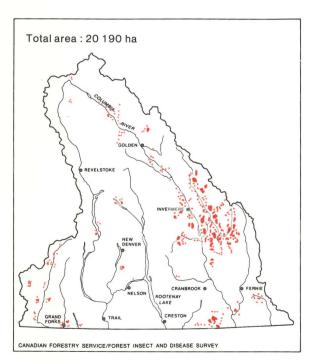
RESTON

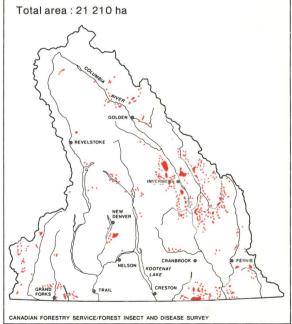
CANABBOOK O

CANABBOO

Mountain pine beetle, 1981

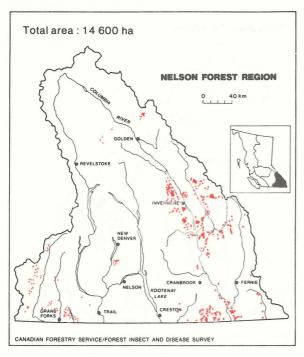
Mountain pine beetle, 1982





Mountain pine beetle, 1983

Mountain pine beetle, 1984



Total area: 28 180 ha

GOLDEN

NYERNERE

GRANBROUL O

CRANBROUL O

NELSON

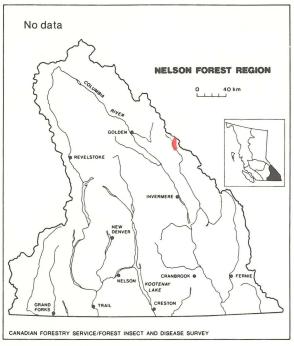
COTENAY

CANADIAN FORESTRY SERVICE/FOREST INSECT AND DISEASE SURVEY

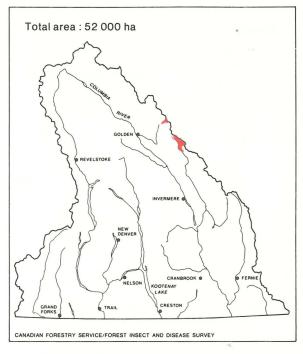
Mountain pine beetle, 1985

Mountain pine beetle, 1986

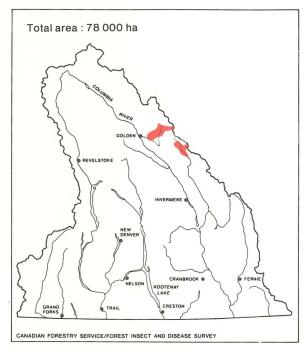
LODGEPOLE PINE NEEDLE MINER



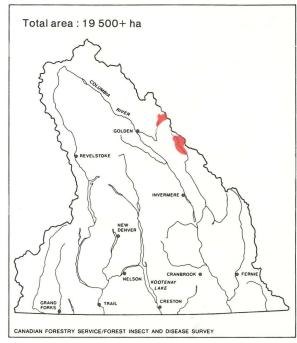
Lodgepole pine needle miner, 1942-43



Lodgepole pine needle miner, 1944-45

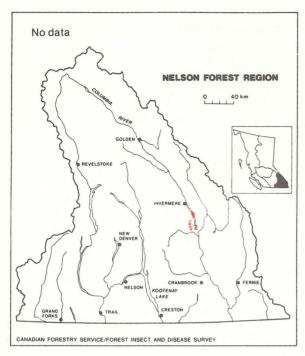


Lodgepole pine needle miner, 1946-47



Lodgepole pine needle miner, 1948-54

DOUGLAS-FIR BEETLE



NO data

OCIUMA

REVELSTOKE

NEW
DENVER

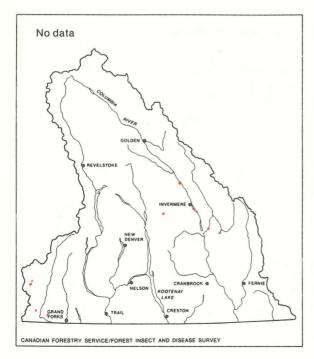
NEW
DENVER

CRANBROOK O
NELSON
KOOTENAY
LAKE
CRESTON

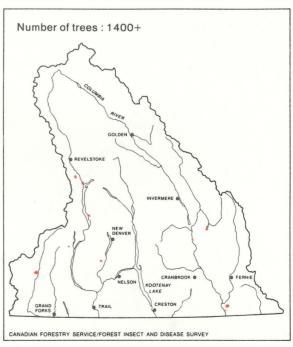
CANADIAN FORESTRY SERVICE/FOREST INSECT AND DISEASE SURVEY

Douglas-fir beetle, 1939

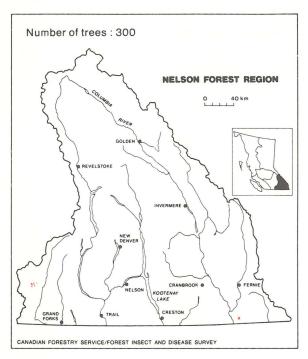
Douglas-fir beetle, 1949



Douglas-fir beetle, 1952-55



Douglas-fir beetle, 1957-59



Number of trees: 70+

GOLDEN

NEW CRANBROOK ©

NELSON

NEW CRANBROOK ©

NELSON

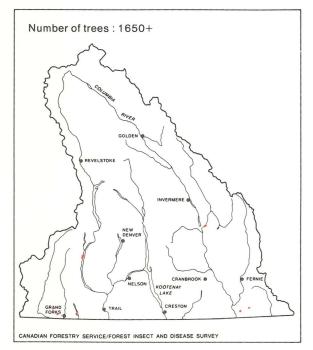
NECT AND CRANBROOK ©

NELSON

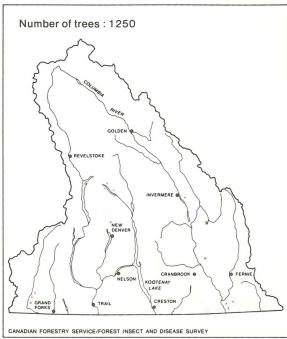
CRANBROOK ©

Douglas-fir beetle, 1961

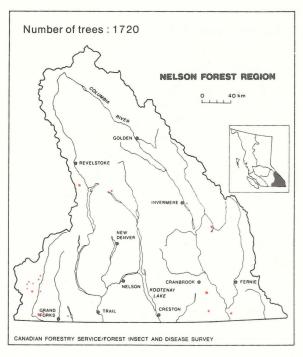
Douglas-fir beetle, 1962



Douglas-fir beetle, 1963



Douglas-fir beetle, 1964



Number of trees: 3100+

Output

REVELSTORE

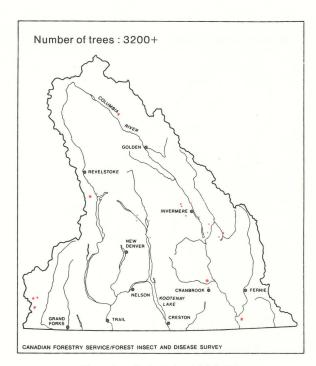
NEW
DENVER

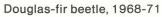
CRANBROOK ©
NELSON

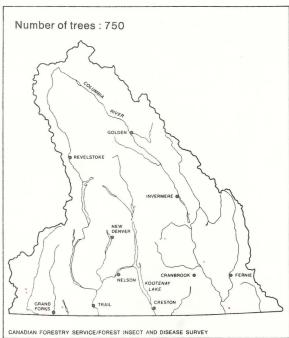
CRANBROOK

Douglas-fir beetle, 1965

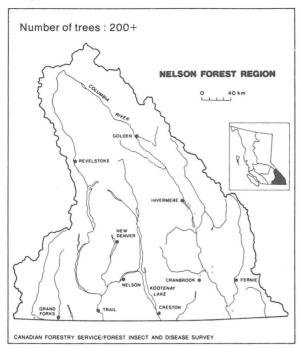
Douglas-fir beetle, 1966-67







Douglas-fir beetle, 1972



Number of trees: 150+

REVELSTOKE

NEW DERVER

NEW DERVER

NEW DERVER

NELSON

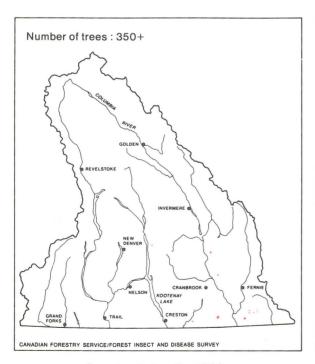
ROOTENAY

LAKE

CRANADIAN FORESTRY SERVICE/FOREST INSECT AND DISEASE SURVEY

Douglas-fir beetle, 1973-79

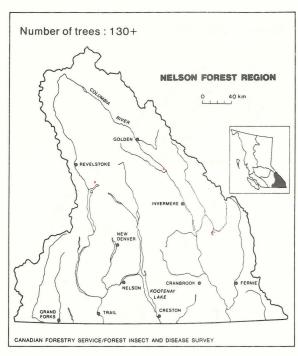
Douglas-fir beetle, 1982





Douglas-fir beetle, 1983

Douglas-fir beetle, 1984



Number of trees: 270

REVELSTOKE

NEW DERIVER

OCAMBROOK ©

NELSON

CARABROOK ©

TRAIL

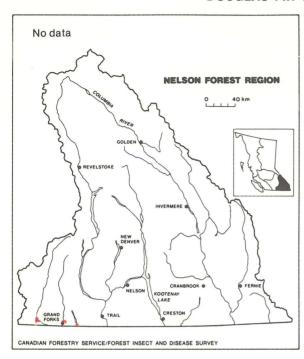
CRESTON

CARABROOK ©

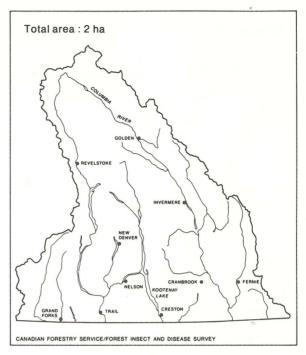
Douglas-fir beetle, 1985

Douglas-fir beetle, 1986

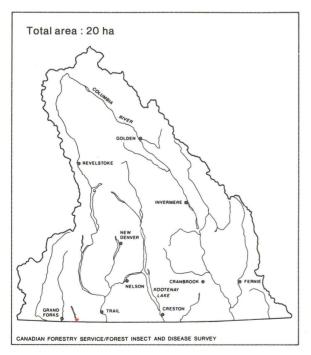
DOUGLAS-FIR TUSSOCK MOTH



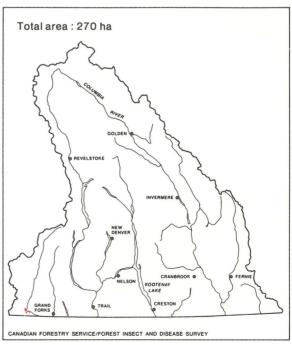
Douglas-fir tussock moth, 1929-31



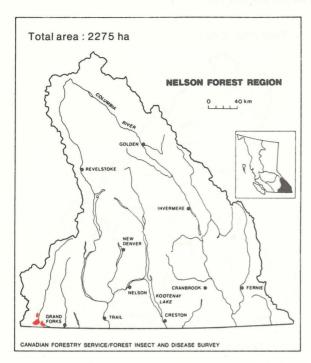
Douglas-fir tussock moth, 1955



Douglas-fir tussock moth, 1981

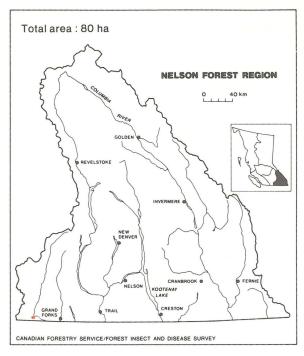


Douglas-fir tussock moth, 1982



Douglas-fir tussock moth, 1983

WESTERN SPRUCE BUDWORM

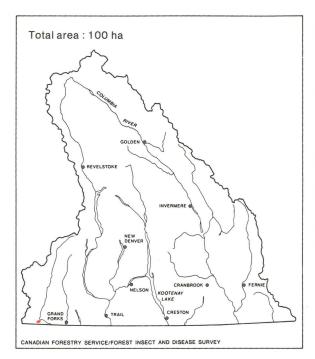


Total area: 200 ha

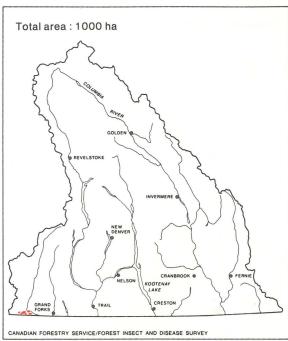
Called APPER
GOLDEN APPER
GOLDEN APPER
GRAND CRANBROOK ©
NELSON ROOTEMAY
LAKE
CRESTON
CANADIAN FORESTRY SERVICE/FOREST INSECT AND DISEASE SURVEY

Western spruce budworm, 1978

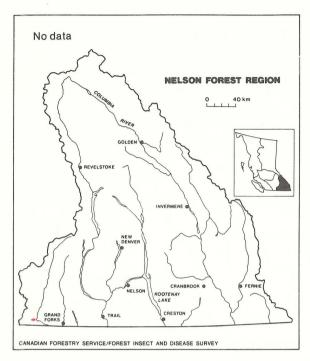
Western spruce budworm, 1979



Western spruce budworm, 1980



Western spruce budworm, 1981



NO data

OCOLUMN

OREVELSTORE

NEW DENVER

OCRANBROOK O

NELSON ROOTMAY

LAKE

CRESTON

CRANBROOK O

NELSON ROOTMAY

LAKE

CRESTON

CRANBROOK O

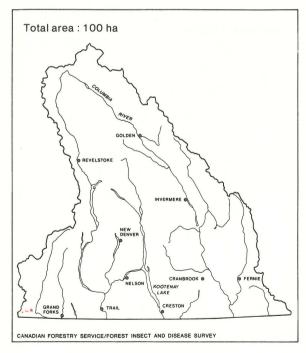
NELSON ROOTMAY

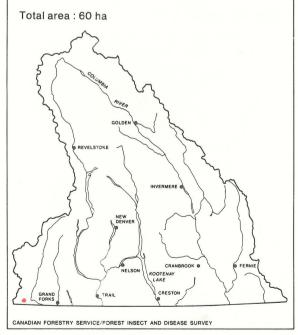
LAKE

CRESTON

Western spruce budworm, 1982

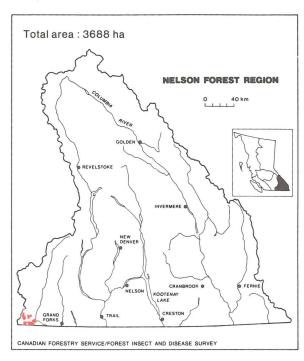
Western spruce budworm, 1983





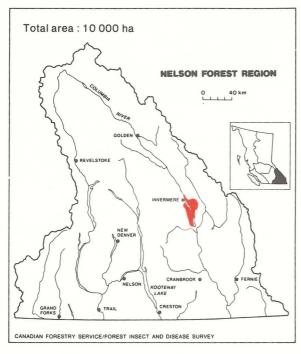
Western spruce budworm, 1984

Western spruce budworm, 1985



Western spruce budworm, 1986

WESTERN FALSE HEMLOCK LOOPER



No data

CANABROOK ©

REVELSTOKE

NEW ORNVER

NEW ORNVER

CRANBROOK ©

REVELSTOKE

NEW CRANBROOK ©

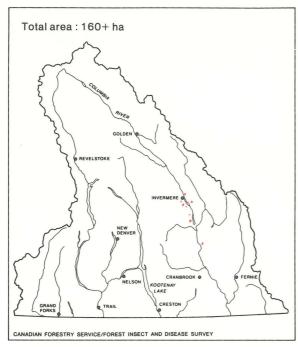
REVELSTOKE

CRANBROOK ©

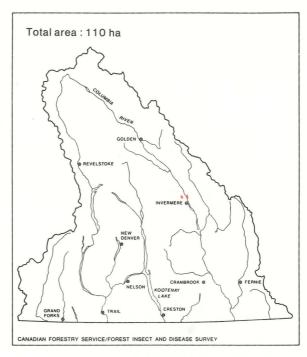
CRANBROOK

Western false hemlock looper, 1947

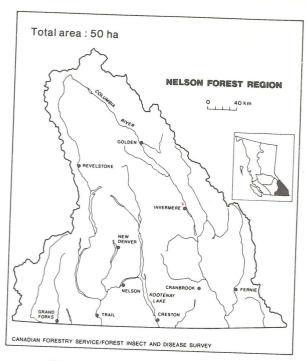
Western false hemlock looper, 1948





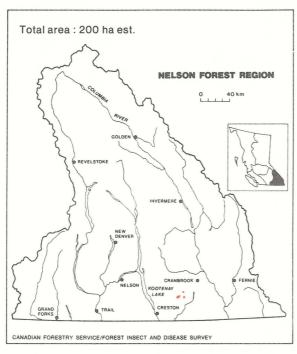


Western false hemlock looper, 1983



Western false hemlock looper, 1985

SPRUCE BEETLE



Total area: 600 ha est.

REVELSTOKE

INVERMERE C

CRAMBROOK O

NELSON

CRAMBROOK O

NELSON

CRAMBROOK O

REVELSTOKE

NEW CRAMBROOK O

NELSON

CRAMBROOK O

REVELSTOKE

NEW CRAMBROOK O

RESTON

CRAMBROOK O

REVELSTOKE

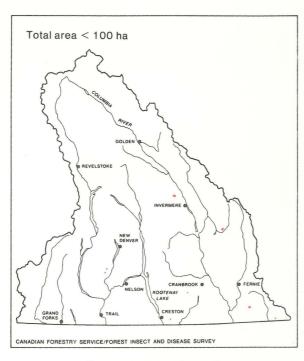
CRAMBROOK O

REVELSTOKE

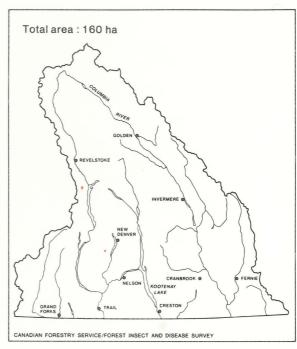
REVE

Spruce beetle, 1934

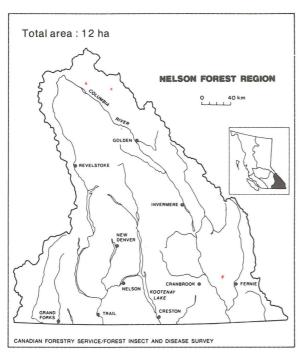
Spruce beetle, 1953-57

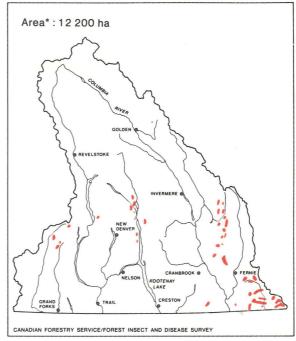


Spruce beetle, 1958-59



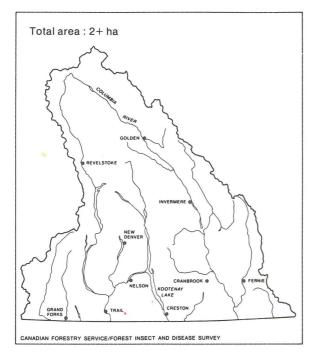
Spruce beetle, 1962



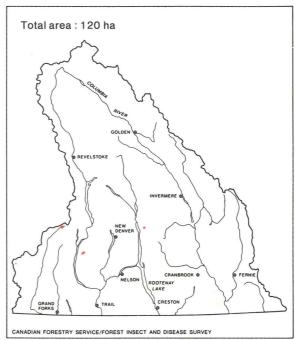


Spruce beetle, 1963

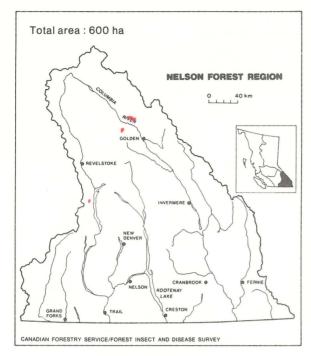
Spruce beetle, 1967-70



Spruce beetle, 1976-77



Spruce beetle, 1978



Total area: 8000 ha

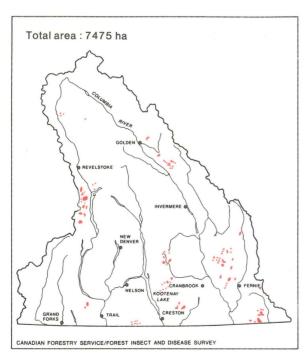
REVELSTOKE

NELSON
ROOTEMAY
CRANAD
ROOTEMAY
CRESTON

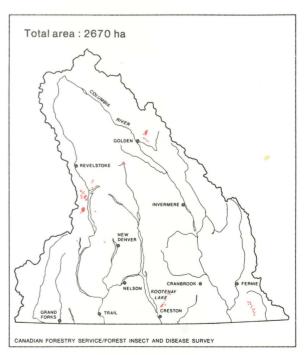
CANADIAN FORESTRY SERVICE/FOREST INSECT AND DISEASE SURVEY

Spruce beetle, 1980

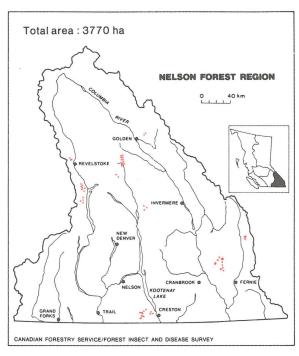
Spruce beetle, 1981



Spruce beetle, 1982



Spruce beetle, 1983



Total area: 575 ha

GOLDEN PREVELSTOKE

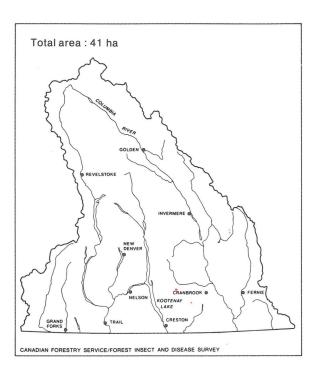
INVERMERE CONTRACT

CRAMBROOK ON FERNIE

CRAMBROOK ON

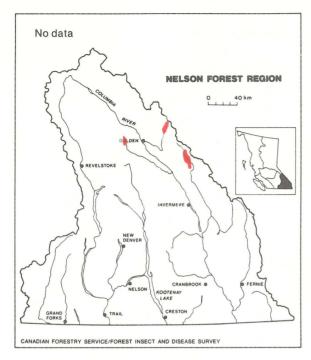
Spruce beetle, 1984

Spruce beetle, 1985

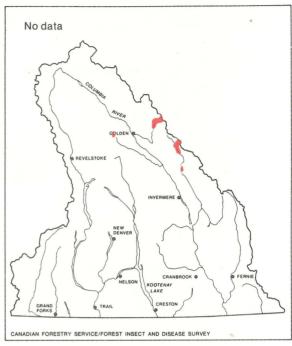


Spruce beetle, 1986

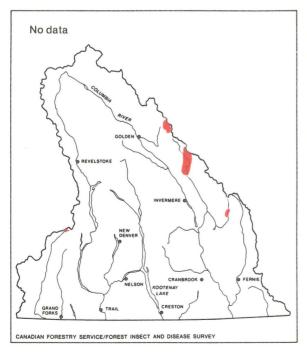
TWO-YEAR-CYCLE SPRUCE BUDWORM



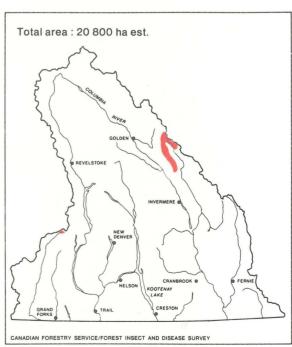
Two-year-cycle spruce budworm, 1941



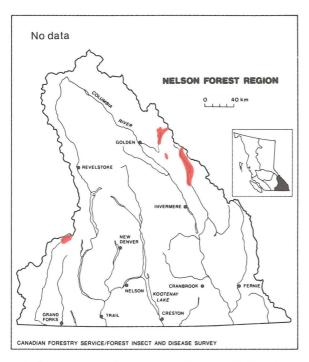
Two-year-cycle spruce budworm, 1942



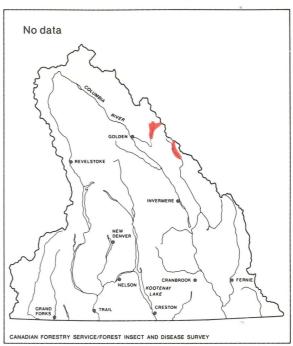
Two-year-cycle spruce budworm, 1944



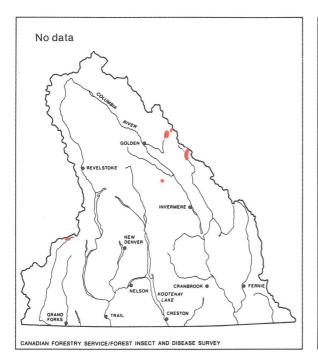
Two-year-cycle spruce budworm, 1946



Two-year-cycle spruce budworm, 1948-50



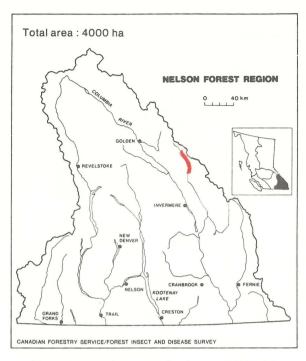
Two-year-cycle spruce budworm, 1951



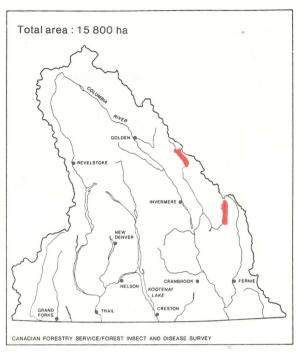
Two-year-cycle spruce budworm, 1952



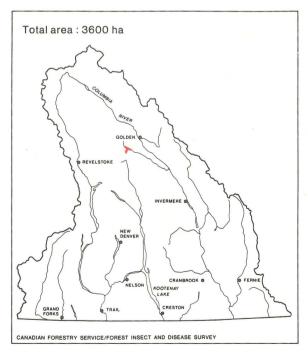
Two-year-cycle spruce budworm, 1953-56



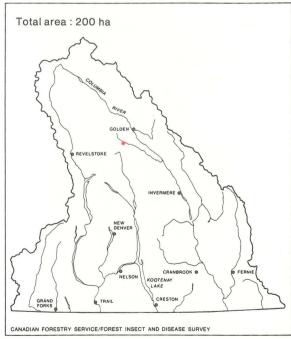
Two-year-cycle spruce budworm, 1964-69



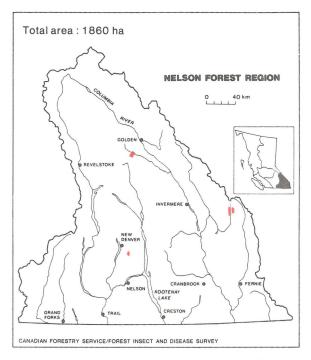
Two-year-cycle spruce budworm, 1972



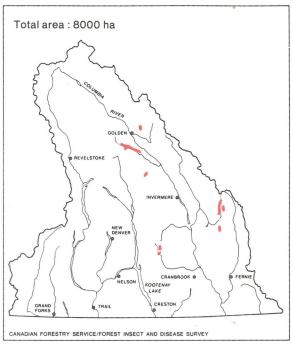
Two-year-cycle spruce budworm, 1975



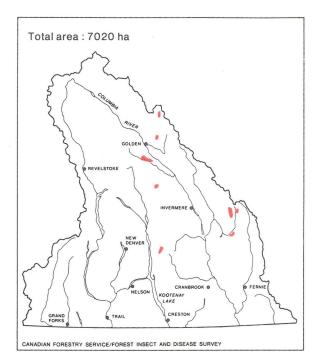
Two-year-cycle spruce budworm, 1976



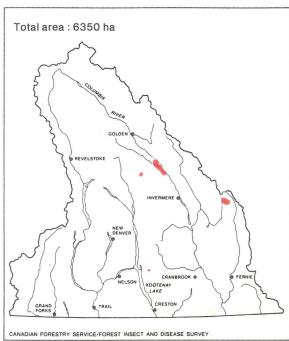
Two-year-cycle spruce budworm, 1977



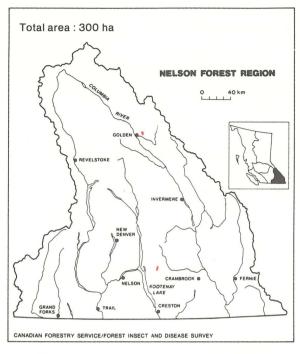
Two-year-cycle spruce budworm, 1978



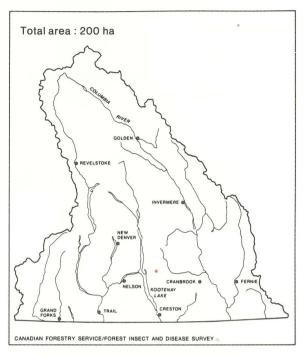
Two-year-cycle spruce budworm, 1979



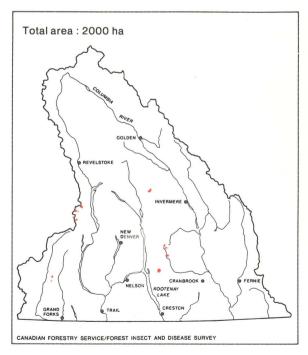
Two-year-cycle spruce budworm, 1980



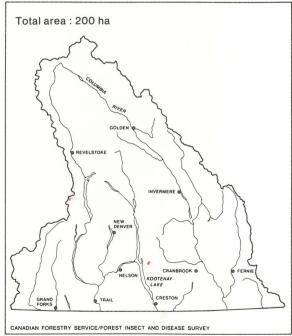
Two-year-cycle spruce budworm, 1981



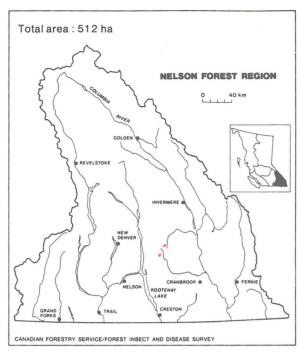
Two-year-cycle spruce budworm, 1982



Two-year-cycle spruce budworm, 1983

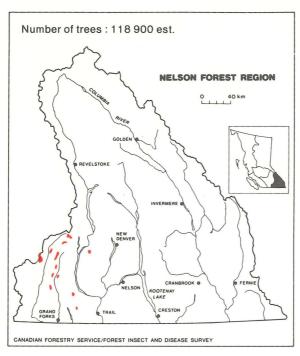


Two-year-cycle spruce budworm, 1984



Two-year-cycle spruce budworm, 1986

WESTERN BALSAM BARK BEETLE



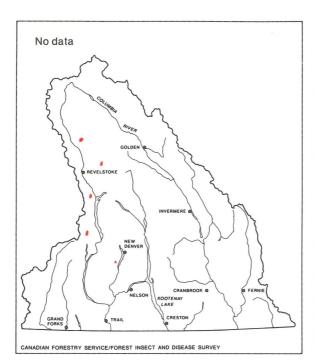
Number of trees: 175

REVELSTOKE

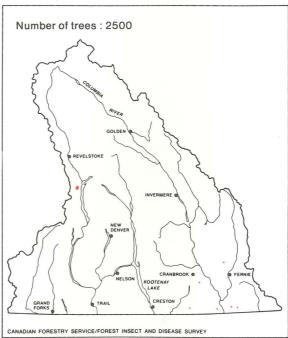
ORANDOR ORANGE OR

Western balsam bark beetle, 1949-59

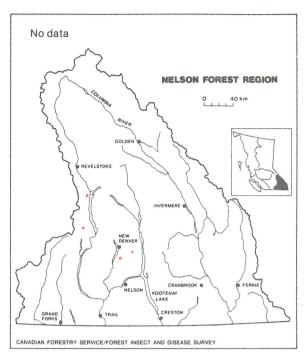
Western balsam bark beetle, 1962



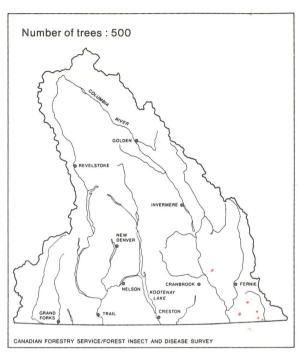




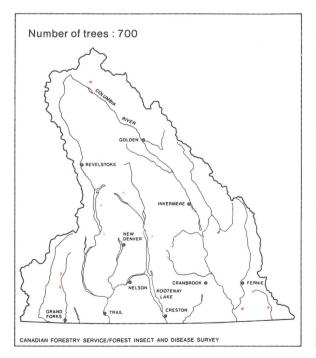
Western balsam bark beetle, 1965



Western balsam bark beetle, 1966



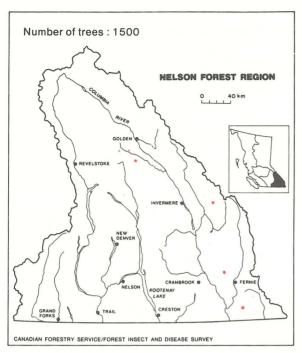
Western balsam bark beetle, 1968



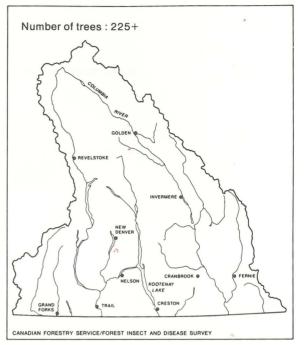
Western balsam bark beetle, 1970



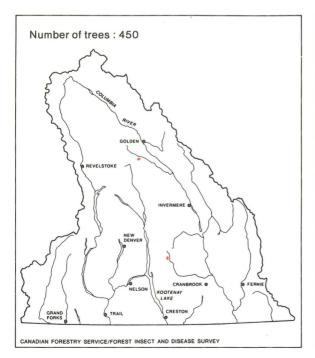
Western balsam bark beetle, 1971



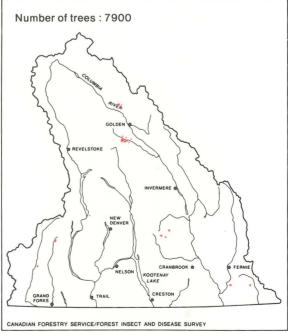
Western balsam bark beetle, 1972



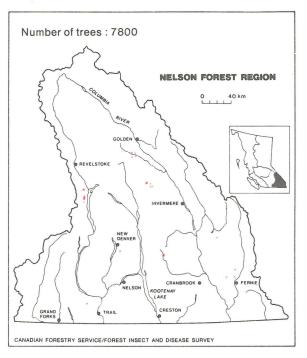
Western balsam bark beetle, 1974



Western balsam bark beetle, 1975



Western balsam bark beetle, 1976



Number of trees: 6250

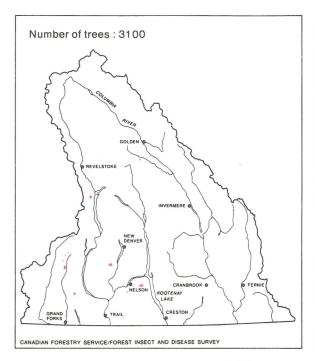
REVELSTOKE

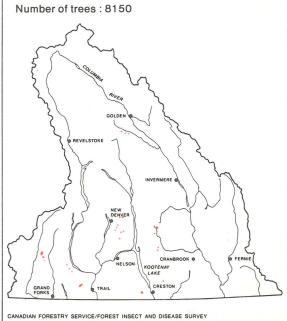
NEW
DENVER

OCRANBROON O
NELSON
ACOTEMAY
LAKE
CRESTON
CRANDIAN FORESTRY SERVICE/FOREST INSECT AND DISEASE SURVEY

Western balsam bark beetle, 1977

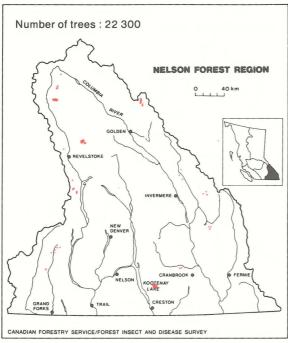
Western balsam bark beetle, 1978



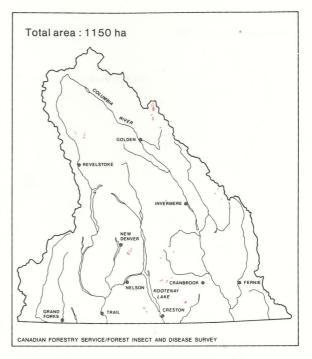


Western balsam bark beetle, 1979

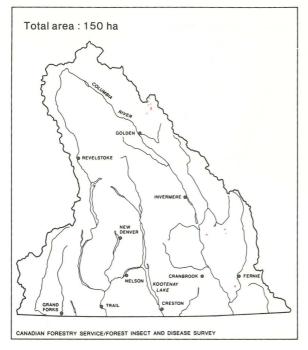
Western balsam bark beetle, 1980



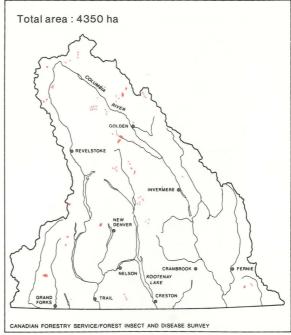
Western balsam bark beetle, 1981



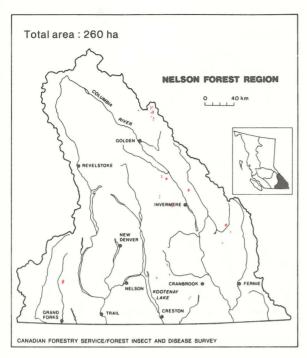
Western balsam bark beetle, 1982

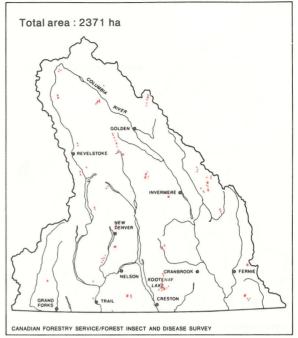


Western balsam bark beetle, 1983



Western balsam bark beetle, 1984

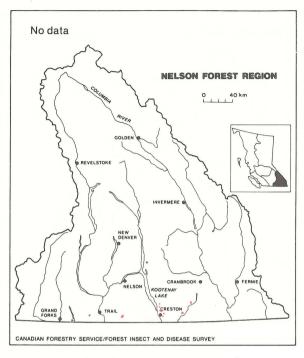




Western balsam bark beetle, 1985

Western balsam bark beetle, 1986

LARCH CASEBEARER



No data

COLUMB

OCICION

OCRANBROOK

NELSON

CRANBROOK

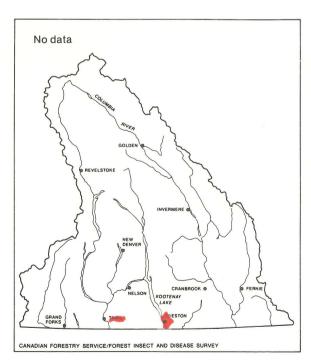
NELSON

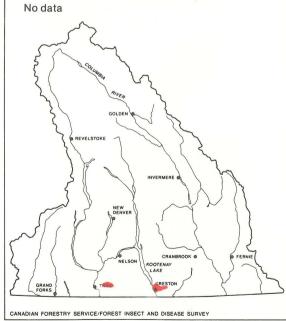
CRANBROOK

CRANBROOK

Larch casebearer, 1966

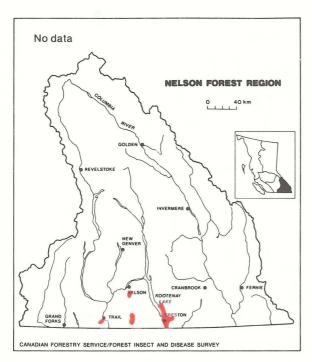
Larch casebearer, 1967





Larch casebearer, 1968

Larch casebearer, 1969



NO data

REVELSTOKE

NEW DENVER

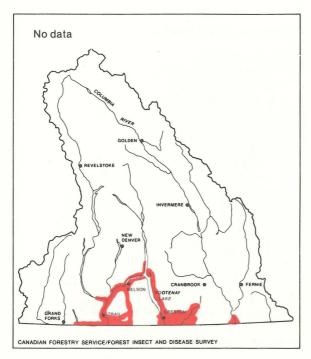
REVELSTOKE

NEW DENVER

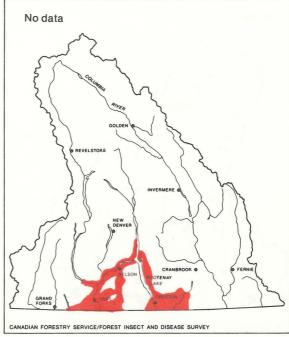
CRAMBROOK ©

Larch casebearer, 1970

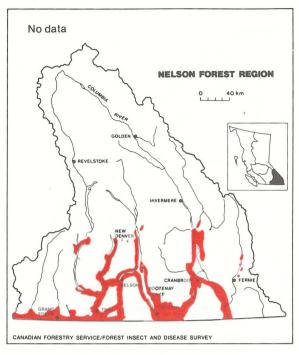
Larch casebearer, 1971



Larch casebearer, 1972



Larch casebearer, 1973-75



NO data

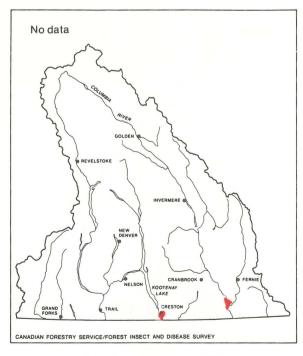
ORANGO REVELSTOKE

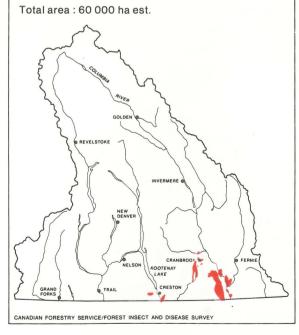
NEW DENVER

ORANGO RANGO R

Larch casebearer, 1976-80

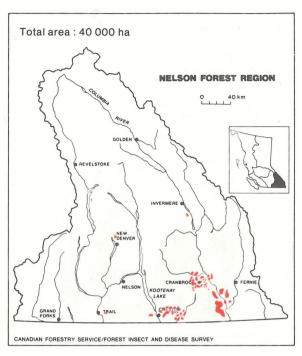
Larch casebearer, 1981





Larch casebearer, 1982

Larch casebearer, 1983



Total area < 100 ha

REVELSTORE

NEW DERIVER

NEW DERIVER

CRANBROOK ©

NELSON ROOTENAV

LAKE

CRESTON

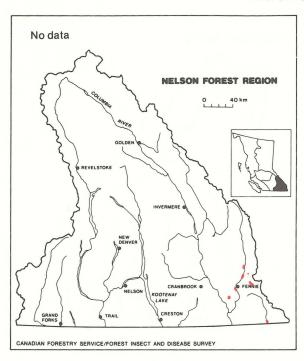
CANADIAN FORESTRY SERVICE/FOREST INSECT AND DISEASE SURVEY

Larch casebearer, 1984-85

Larch casebearer, 1986

LARCH SAWFLY

Area*: 1 300 000 ha



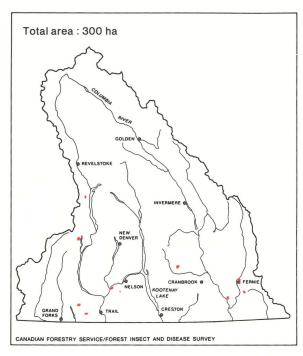
CRIMINOUS 8

GRAND

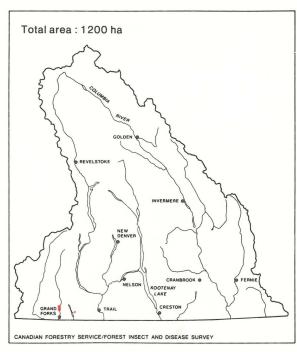
GRA

Larch sawfly, 1933-35

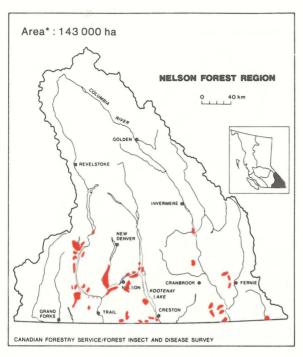
Larch sawfly, 1938-44



Larch sawfly, 1945-47



Larch sawfly, 1948-49



Area*: 147 000 ha

REVELSTOKE

INVERMERE

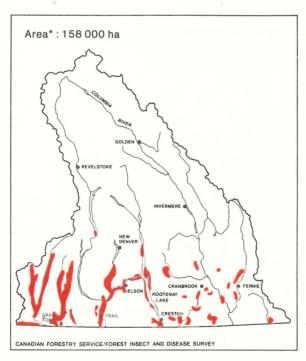
OCRANBROOK OF TRAIL

CRANBROOK OF TRAIL

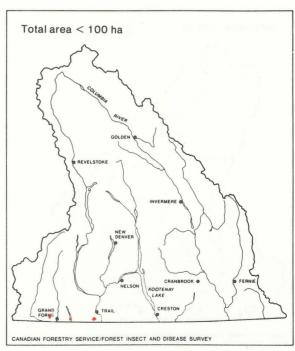
CRA

Larch sawfly, 1965

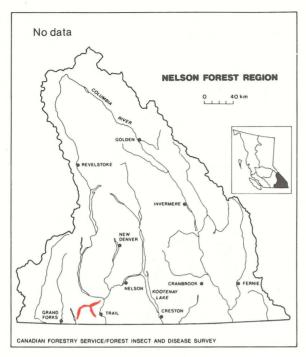
Larch sawfly, 1966







Larch sawfly, 1968-69



Total area: 4 ha

GOLDEN

GOLDEN

REVELSTORE

INVERMERE CHANBROOK O

NELSON

CRANBROOK O

NELSON

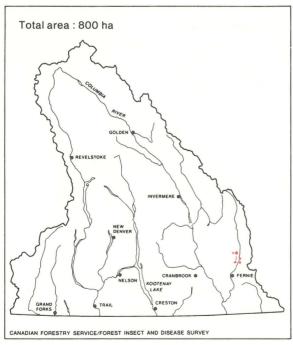
CRANBROOK O

NELSON

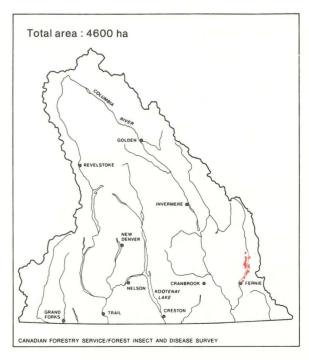
CRANBROOK O

Larch sawfly, 1971-72

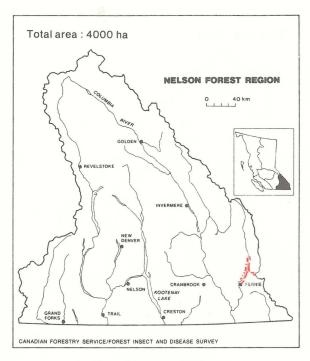
Larch sawfly, 1976







Larch sawfly, 1978



Total area: 500 ha

REVELSTOKE

NEW DENVER

NEW DENVER

REVELSTOKE

NEW DENVER

NEW DENVER

REVELSTOKE

NEW DENVER

ROJENAV

LAKE

CRESTON

CRANBROOK 9

RESON

ROJENAV

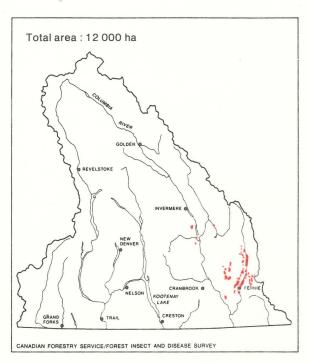
LAKE

CRESTON

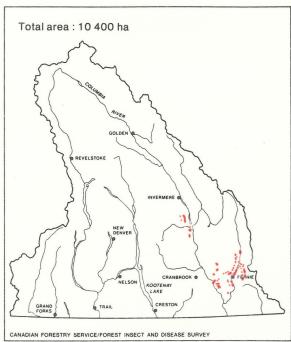
CRANDIAN FORESTRY SERVICE/FOREST INSECT AND DISEASE SURVEY

Larch sawfly, 1979

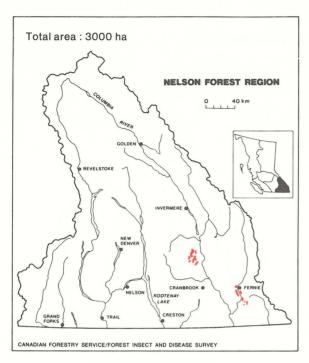
Larch sawfly, 1980



Larch sawfly, 1981-82



Larch sawfly, 1983



Total area: 26 ha

REVELSTOKE

INVERMERE CANABROOK O

RELSON

CRANBROOK O

NELSON

CRANBROOK O

TRAIL

CRESTON

CANABROOK O

CRANBROOK O

NELSON

CRANBROOK O

CRANBROOK O

NELSON

CRANBROOK O

CRANBROOK O

NELSON

NOTENAY

LAKE

CRESTON

CRANBROOK O

NELSON

NELSON

NOTENAY

LAKE

CRESTON

CRANBROOK O

NELSON

NOTENAY

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CRESTON

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CRANBROOK O

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LAKE

CRESTON

NOTENAY

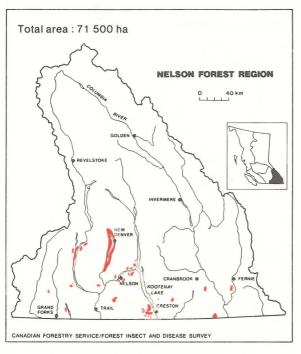
LAKE

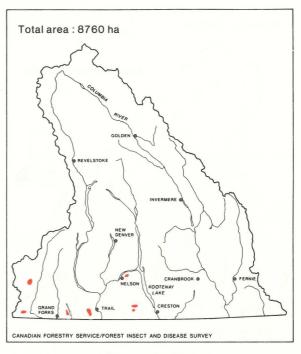
LAK

Larch sawfly, 1984

Larch sawfly, 1986

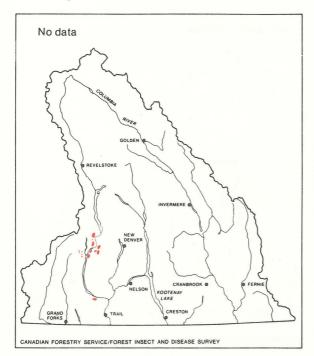
LARCH BUDMOTH



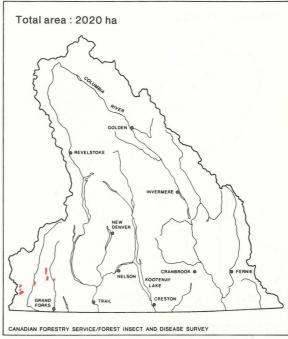


Larch budmoth, 1965

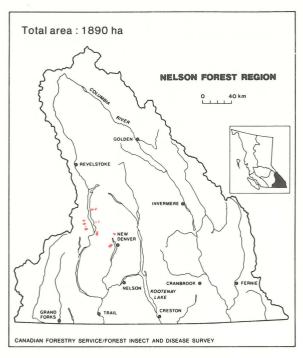
Larch budmoth, 1966



Larch budmoth, 1973



Larch budmoth, 1977



Total area: 6600 ha

REVELSTOKE

NEW DENVER

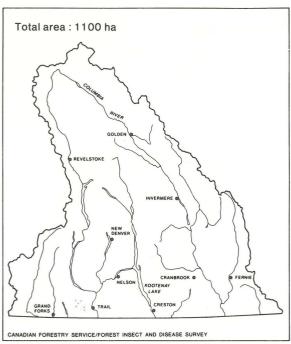
NEW CRANBROOK © REVELSTOKE

NELSON ROOTEMAY
LAKE
CRESTON

CRANADIAN FORESTRY SERVICE/FOREST INSECT AND DISEASE SURVEY

Larch budmoth, 1978

Larch budmoth, 1983



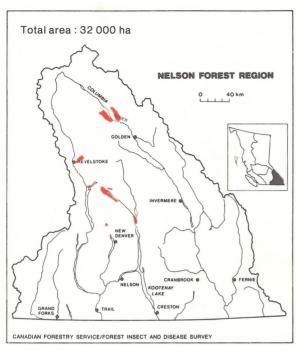
GRAND CANADIAN FORESTRY SERVICE/FOREST INSECT AND DISEASE SURVEY

Total area: 5800 ha

Larch budmoth, 1984

Larch budmoth, 1985

WESTERN HEMLOCK LOOPER



Total area: 39 000 ha

REVELSTOKE

NEW DERVER

NEW DERVER

NEW CRANBROOK 0

ROOTENAY

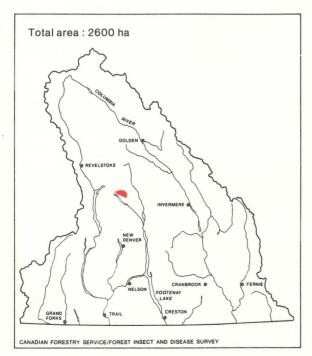
LAKE

CRESTON

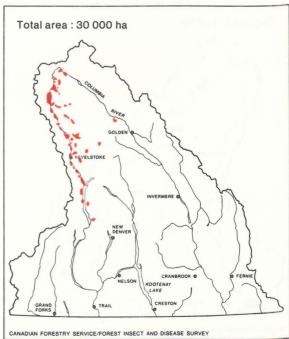
CANADIAN FORESTRY SERVICE/FOREST INSECT AND DISEASE SURVEY

Western hemlock looper, 1937-38

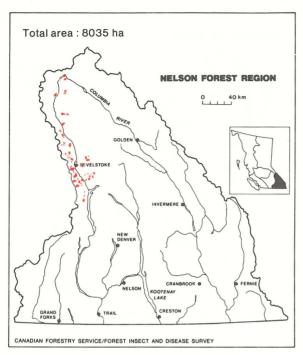
Western hemlock looper, 1945-46



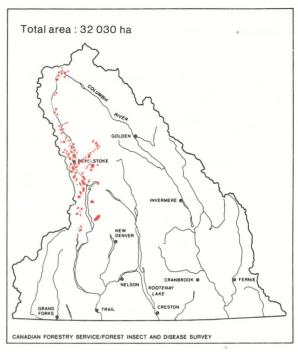
Western hemlock looper, 1947



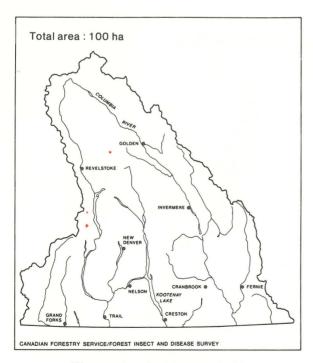
Western hemlock looper, 1972-73



Western hemlock looper, 1982

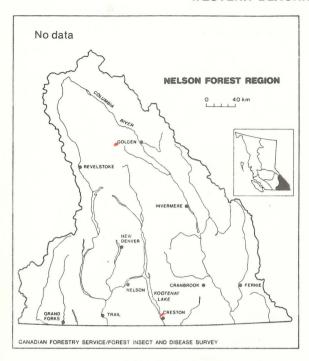


Western hemlock looper, 1983

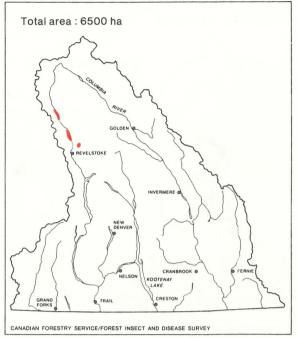


Western hemlock looper, 1984

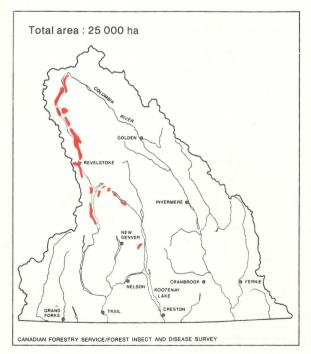
WESTERN BLACKHEADED BUDWORM



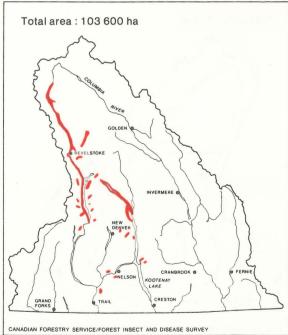
Western blackheaded budworm, 1939



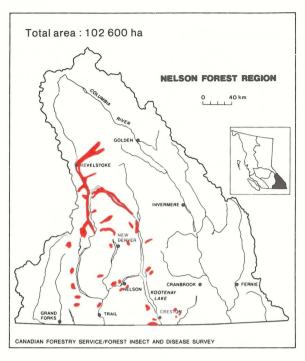
Western blackheaded budworm, 1955



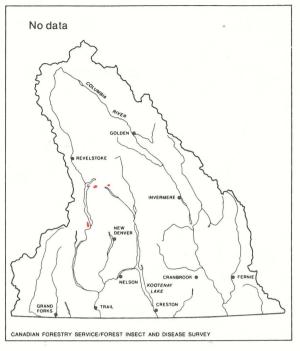
Western blackheaded budworm, 1965



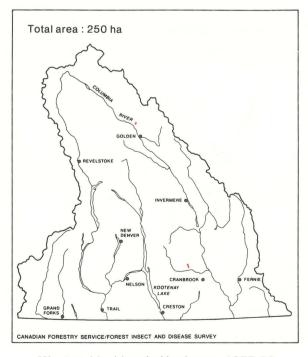
Western blackheaded budworm, 1966



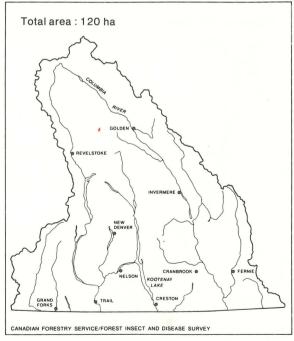
Western blackheaded budworm, 1967



Western blackheaded budworm, 1973-75

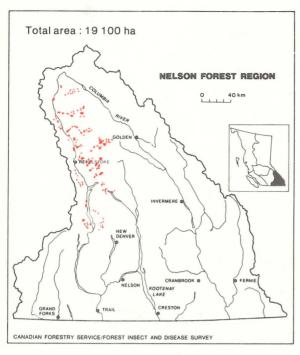


Western blackheaded budworm, 1977-78



Western blackheaded budworm, 1983

Total area: 150 ha



GOLDEN PARVELSTOKE

NEW DENVER

OF AREA CRESTON

CRANBROOK OF FERMIN

ACOTEMAN

CRESTON

CRESTON

CRANBROOK OF FERMIN

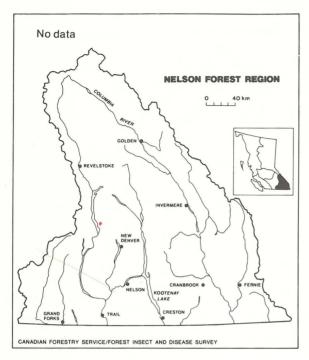
CRESTON

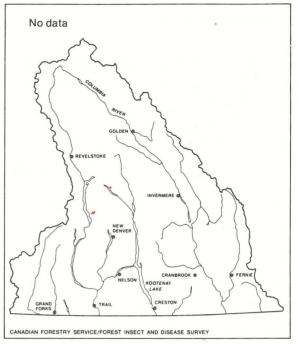
C

Western blackheaded budworm, 1984

Western blackheaded budworm, 1985

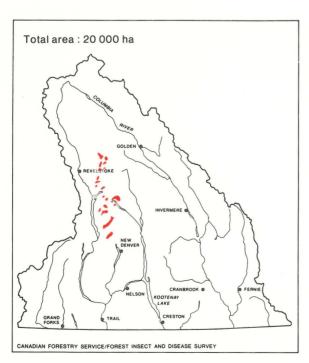
FILAMENT BEARER





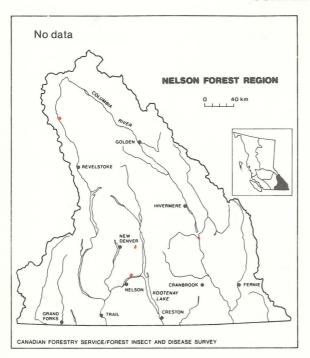
Filament bearer, 1971

Filament bearer, 1972



Filament bearer, 1973-74

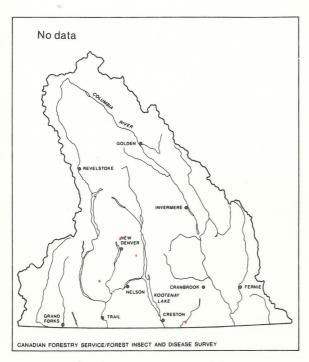
CONIFER SAWFLY



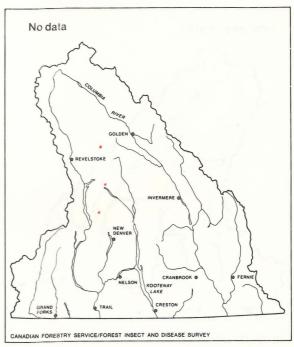


Conifer sawfly, 1946-50

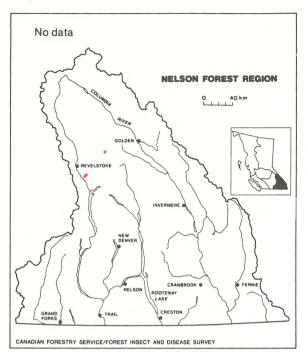
Conifer sawfly, 1957-58



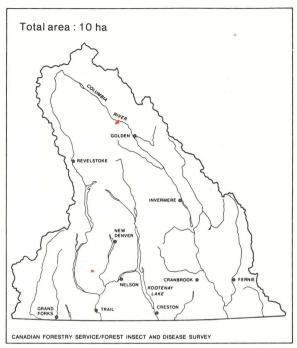




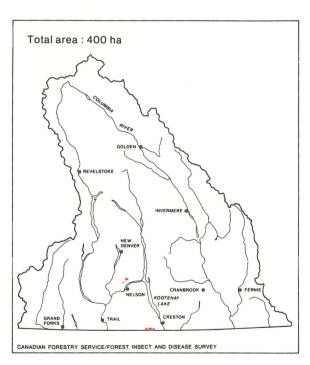
Conifer sawfly, 1973



Conifer sawfly, 1980-81

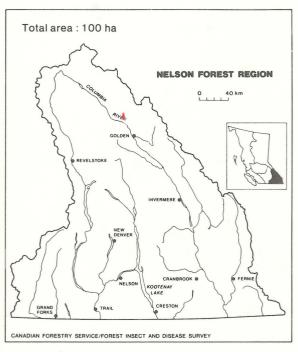


Conifer sawfly, 1982-83



Conifer sawfly, 1985-86

BLACK ARMY CUTWORM

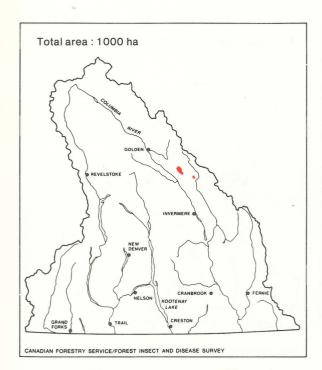


Total area: 2800 ha

GRAND SERVICE/FOREST INSECT AND DISEASE SURVEY

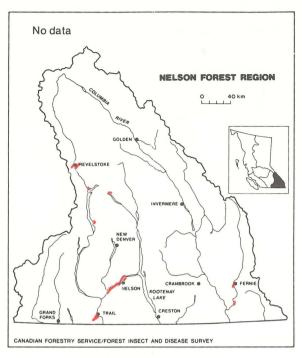
Black army cutworm, 1973

Black army cutworm, 1974



Black army cutworm, 1975

FOREST TENT CATERPILLAR



Total area: 2000 ha

OLDEN

OLDEN

NEW DENVER

CRANBBOOK O

NELSON

CRANBBOOK O

NELSON

CRANBBOOK O

TRAIL

CRESTON

CRESTON

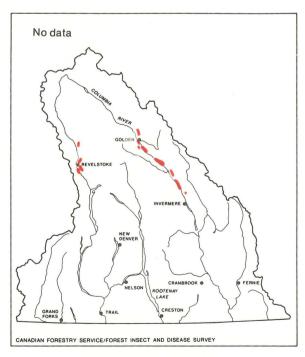
CRANBBOOK O

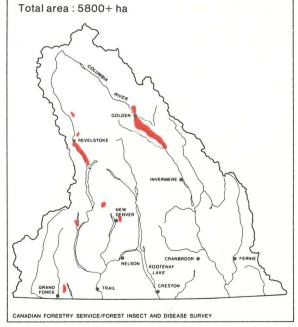
TRAIL

CRESTON

Forest tent caterpillar, 1944

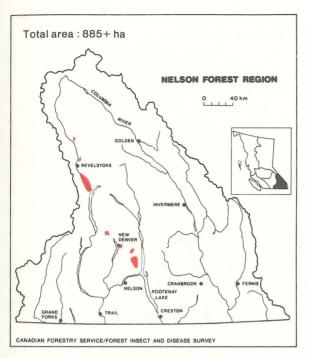
Forest tent caterpillar, 1951





Forest tent caterpillar, 1952

Forest tent caterpillar, 1953



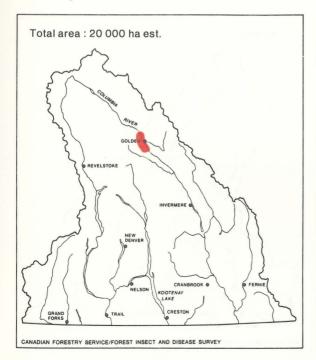
No data

OCIONAL

OCI

Forest tent caterpillar, 1954

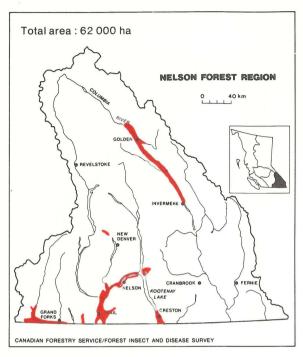
Forest tent caterpillar, 1959



Forest tent caterpillar, 1960



Forest tent caterpillar, 1961



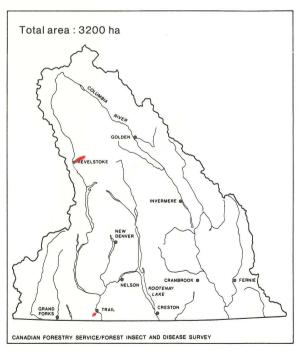
Total area: 40 500 ha

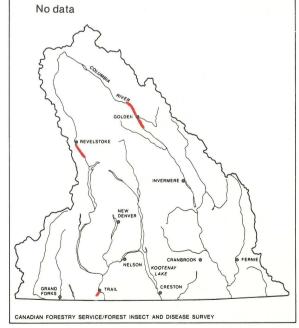
REVELSTORE

NELSON
ROOTEMAY
LARE
CRANBROOK ®
FERNIE
CRANDIAN FORESTRY SERVICE/FOREST INSECT AND DISEASE SURVEY

Forest tent caterpillar, 1962-63

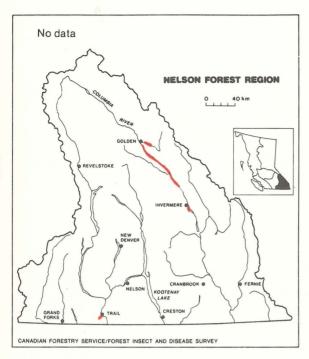
Forest tent caterpillar, 1964





Forest tent caterpillar, 1971

Forest tent caterpillar, 1972



Total area: 490 ha

GOLDEN

REVELSTOKE

INVERMERE

OF PERNIE

CRANBROOK ®

NELSON

KOOTENAY

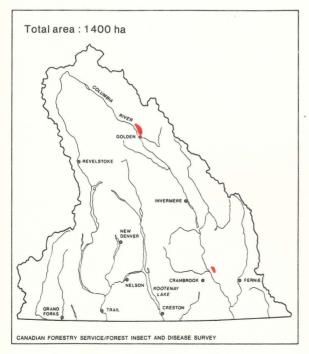
LAKE

CRESTON

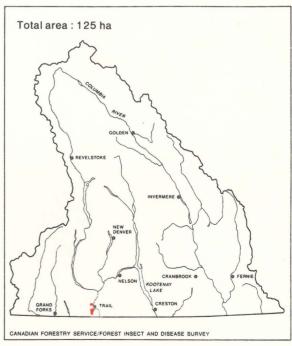
CRANDIAN FORESTRY SERVICE/FOREST INSECT AND DISEASE SURVEY

Forest tent caterpillar, 1973

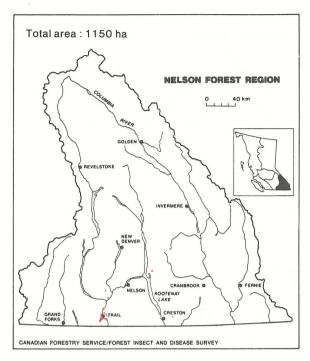
Forest tent caterpillar, 1974



Forest tent caterpillar, 1976



Forest tent caterpillar, 1984-85



Forest tent caterpillar, 1986