

Comparison of clearing-saw cutting attachments for weeding young conifer plantations

<https://library.fpinnovations.ca/en/permalink/fpipub6046>

Author: Holmsen, S.D.
Whitehead, R.J.

Date: 1988

Edition: 43321

Material Type: Research report

Physical Description: 21 p

Sector: Forest Operations

Field: Fibre Supply

Research Area: Forestry

Subject: Silviculture
Vegetation

Series Number: FO Special Report

Language: English

Abstract:

In a study funded under FRDA, FERIC AND PFC established research plots for the silvicultural assessment of a vegetation-management trial in Nelson. FERIC conducted productivity assessments of three cutting attachments for Husqvarna clearing saws; the Maxi 200, Multi 300, and Multi 255-4. Pretreatment vegetation and port-treatment seedling damage were examined by PFC researchers. This report summarizes the first-year results. Follow-up revegetation and crop growth response will be monitored and reported by PFC.


Vegetation control
MOTOR MANUAL METHOD
Brush saws
Cutting attachments
Husqvarna 244RX clearing saw
PLANTATIONS
SOFTWOODS
EVALUATION
PRODUCTIVITY
COSTS
Time study
Seedling damage

Documents



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A comparison of the Silva Wadell powered cone scarifier and TTS-35 disc trencher in Central Newfoundland

<https://library.fpinnovations.ca/en/permalink/fpipub43995>

Author: Dominy, S.W.J.
Date: March 1993
Material Type: Research report
Physical Description: 22 p
Sector: Forest Operations
Field: Fibre Supply
Research Area: Forestry
Subject: Vegetation
Treatment
Slash treatment
Scarifying equipment
Slash
Sites
Site preparation
Scarification
Preparation
Power supply
Energy

Series Number: FO Special Report ; SR 84

Language: English

Abstract: SITE PREPARATION
 Scarifying equipment
 Cone scarifiers
 Disc trenchers
 Vegetation control
 Slash treatment
 Comparison
 Microsites
 DONAREN 180D POWERED-DISC TRENCHER
 SILVA WADELL POWERED-CONE SCARIFIER

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Comparison of two site preparation treatments using the Meri Crusher

<https://library.fpinnovations.ca/en/permalink/fpipub40483>

Author: Mitchell, Janet L.
 Date: October 2000
 Material Type: Research report
 Physical Description: 4 p.
 Sector: Forest Operations
 Field: Fibre Supply
 Research Area: Forestry

Subject: Vegetation
Sites
Site preparation
Scarifying equipment
Scarification
Saskatchewan
Preparation
Advantage

Series Number: Advantage ; Vol. 1, No. 24

Language: English

Abstract: Mistik Management Ltd. has been using a Meri Crusher mounted on a small loader since 1998 to prepare sites for planting. The Meri Crusher mulches the organic material and mixes the mulched material with mineral soil to create a mixed microsite to favour planted white spruce and provide vegetation control from Calamagrostis canadensis (marsh reed grass) and aspen. However, harvesting in aspen and mixedwood forests creates moderate to high slash loading. When the Meri Crusher is used for site preparation, these slash loadings have led to low machine productivity.

Site preparation
Scarifying equipment
Vegetation control
Crushers (silv.)
Mulching
Comparison
Meri crusher
Saskatchewan

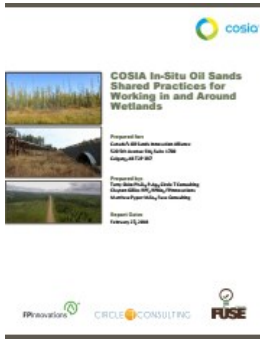
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COSIA in-situ oil sands shared practices for working in and around wetlands

<https://library.fpinnovations.ca/en/permalink/fpipub7667>

Author: Gillies, Clayton
Osko, Terry
Pyper, Matthew

Date: February 2018

Edition: 52674

Material Type: Research report

Physical Description: 76 p.

Sector: Forest Operations

Field: Fibre Supply

Research Area: Transportation Infrastructure

Subject: Alberta
Roads
Culverts
Vegetation

Series Number: Report

Language: English

Abstract:

Wetlands are a critical and valued component of boreal landscapes in northeastern Alberta, and they comprise a significant proportion of operational tenures within the in-situ oil sands region. While companies have made progress on avoidance and mitigation strategies to reduce their impacts to wetlands, they also face many common challenges, including pad, road, and culvert settlement; culvert bowing and failure; and tree mortality or other vegetation changes in wetlands adjacent to roads. This document compiles a toolbox of shared practices currently in use by COSIA companies, or which have been used but were found to be unsuccessful.

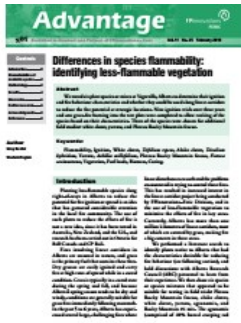
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Differences in species flammability: identifying less-flammable vegetation

<https://library.fpinnovations.ca/en/permalink/fpipub36827>

Author: Baxter, Greg

Date: February 2010

Material Type: Research report

Physical Description: 8 p.

Sector: Forest Operations

Field: Fibre Supply

Research Area: Forestry

Subject: Vegetation

Loads

Hybrid

Biomass

Advantage

Series Number: Advantage ; Vol. 11, No. 25

Language: English

Abstract: We tested six plant species or mixes at Vegreville, Alberta to determine their ignition and fire behaviour characteristics and whether they could be used along linear corridors to reduce the fire potential at strategic locations. Nine ignition trials over three years and one grass-fire burning into the test plots were completed to allow ranking of the species based on their characteristics. Three of the species were chosen for additional field studies: white clover, yarrow, and Plateau Rocky Mountain fescue.

Flammability

Ignition

White clover

Trifolium repens

Alsike clover

Trifolium hybridum

Yarrow

Achillea millefolium

Plateau Rocky Mountain fescue

Festuca saximontana

Vegetation

Fuel loads

Biomass

Curing

Documents



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Effect of air pollution on wood production and quality

<https://library.fpinnovations.ca/en/permalink/fpipub37177>

Author: Keith, C.T.
Date: March 1987
Material Type: Research report
Physical Description: 1 v.
Sector: Wood Products
Field: Sustainable Construction
Research Area: Advanced Wood Materials
Subject: Wood quality
Wood
Vegetation
Quality control
Qualitative analysis
Pollution
Air pollution
Air

Series Number: CFS No. 36;04-55-12-102
W-446


Location: Ottawa, Ontario
Language: English
Abstract: Wood quality
Air pollution - Damage to vegetation
Air pollution - Effects

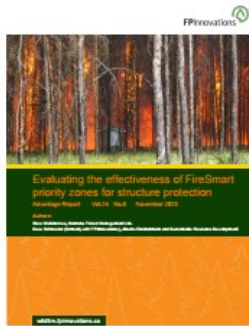
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Evaluating the effectiveness of FireSmart priority zones for structure protection

<https://library.fpinnovations.ca/en/permalink/fpipub39760>

Author: Walkinshaw, Stew

Schroeder, Dave

Date: November 2013

Material Type: Research report

Physical Description: 20 p.

Sector: Forest Operations

Field: Fibre Supply

Research Area: Forestry

Subject: Fire

Fire Control

Vegetation

Wildfires

Advantage

Series Number: Advantage ; Vol. 14, No. 6

Language: English

ISSN: 14933381

Abstract: When wildfire escapes into the wildlands-urban interface, homes, industrial facilities, and other urban values can be threatened or destroyed. As recommended by the FireSmart Canada program, vegetation management is a key principle in mitigating the risk of wildfire affecting urban values. In 2007, at a forested test site in the Northwest Territories, Canada, FPInnovations evaluated the effectiveness of using vegetation management- i.e., removal and reduction of forest fuels from the vicinity of a small building- as a strategy for protecting the building from wildfire.

Documents



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Evaluation of the Donaren 180D powered-disc trencher in Central Newfoundland, and a comparison with the Silva Wadell powered-cone scarifier

<https://library.fpinnovations.ca/en/permalink/fpipub43994>

Author: Dominy, S.W.J.
 Date: December 1993
 Material Type: Research report
 Physical Description: 14 p
 Sector: Forest Operations
 Field: Fibre Supply
 Research Area: Forestry
 Subject: Vegetation
 Treatment
 Slash treatment
 Scarifying equipment
 Slash
 Sites
 Site preparation
 Scarification
 Preparation
 Power supply
 Energy

Series Number: FO Special Report ; SR 88

Language: English

Abstract: SITE PREPARATION

Scarifying equipment

Cone scarifiers

Disc trenchers

Vegetation control

Slash treatment

Comparison

Microsites

DONAREN 180D POWERED-DISC TRENCHER

SILVA WADELL POWERED-CONE SCARIFIER

Documents



SR88.pdf

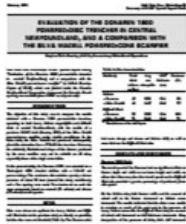


Evaluation of the Donaren 180D powered-disc trencher in Central Newfoundland, and a comparison with the Silva Wadell powered-cone scarifier [summary of FERIC Special Report SR-88]

<https://library.fpinnovations.ca/en/permalink/fpipub36564>

Author: Dominy, S.W.J.
 Date: March 1995
 Material Type: Research report
 Physical Description: 2 p.
 Sector: Forest Operations
 Field: Fibre Supply
 Research Area: Forestry
 Subject: Vegetation
 Treatment
 Slash treatment
 Slash
 Sites
 Site preparation
 Scarifying equipment
 Scarification
 Preparation
 Power supply
 Energy
 Series Number: Field Note ; Silviculture-FN-000076
 Language: English
 Abstract: Site preparation
 Scarifying equipment
 Cone scarifiers
 Disc trenchers
 Vegetation control
 Slash treatment
 Comparison
 Microsites
 DONAREN 180D POWERED-DISC TRENCHER
 SILVA WADELL POWERED-CONE SCARIFIER

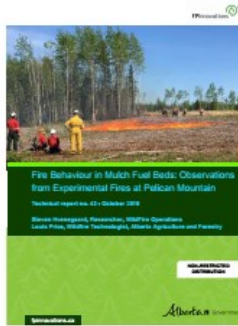
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Fire behaviour in mulch fuel beds: observations from experimental fires at Pelican Mountain

<https://library.fpinnovations.ca/en/permalink/fpipub7663>

Author: Hvenegaard, Steven
Price, Louis

Date: October 2018

Edition: 52659

Material Type: Research report

Physical Description: 16 p.

Sector: Forest Operations

Field: Fibre Supply

Research Area: Wildfire Operations

Subject: Fire
Behavior
Mulch
Vegetation
Wildfires
FOP Technical Report
FPI TR

Series Number: Technical Report ; TR 2018 n.43

Language: English

Abstract: FPInnovations collaborated with Alberta Agriculture and Forestry and other research agencies to conduct two experimental fires in mulched fuels under very high fire hazard conditions. This study documented fire behaviour and compared it to other experimental fires in mulch fuel beds at other independent study sites. Documentation of fire behaviour in this novel fuel type can inform wildfire managers of potential fire behaviour and suppression challenges.

Documents



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