

DEVELOPMENT OF INDIVIDUAL JACK PINE SEEDLINGS
ON BURNED-OVER DRY SITES IN
SOUTHEASTERN MANITOBA

Project MS-225

by

N. Bruce

FOREST RESEARCH LABORATORY

WINNIPEG, MANITOBA

INTERNAL REPORT MS-47

MARCH, 1967

CONTENTS

	Page
INTRODUCTION	1
WORK COMPLETED IN 1966	
Establishment of Study Area	1
Seeding	1
WORK PROPOSED FOR 1967	
Seeding	1
Measurement of seedlings	3
REFERENCES.	3

DEVELOPMENT OF INDIVIDUAL JACK PINE SEEDLINGS
ON BURNED-OVER DRY SITES IN
SOUTHEASTERN MANITOBA

by
N. Bruce¹

INTRODUCTION

In 1961 a study was begun in southeastern Manitoba to investigate root development of jack pine seedlings (from age one year through age ten years) on burned-over dry sites. The study has now been expanded to encompass om, of, d, and mf sites.

WORK COMPLETED IN 1966

Establishment of Study Area on om Site

During the summer of 1966 a 1/5 acre burn (Figure 1) was carried out on a clear-cut om site to prepare a suitable area for study as a naturally burned site was not available. A 1/10-acre plot was established on the area.

Seeding

The 1/10-acre plot was sown during late October with jack pine seed at the rate of 12 ounces per acre. A cyclone hand seeder was used to broadcast the seed. The seed was treated with arasan, endrin and aluminum flakes and had a germination capacity of 96.0 per cent.

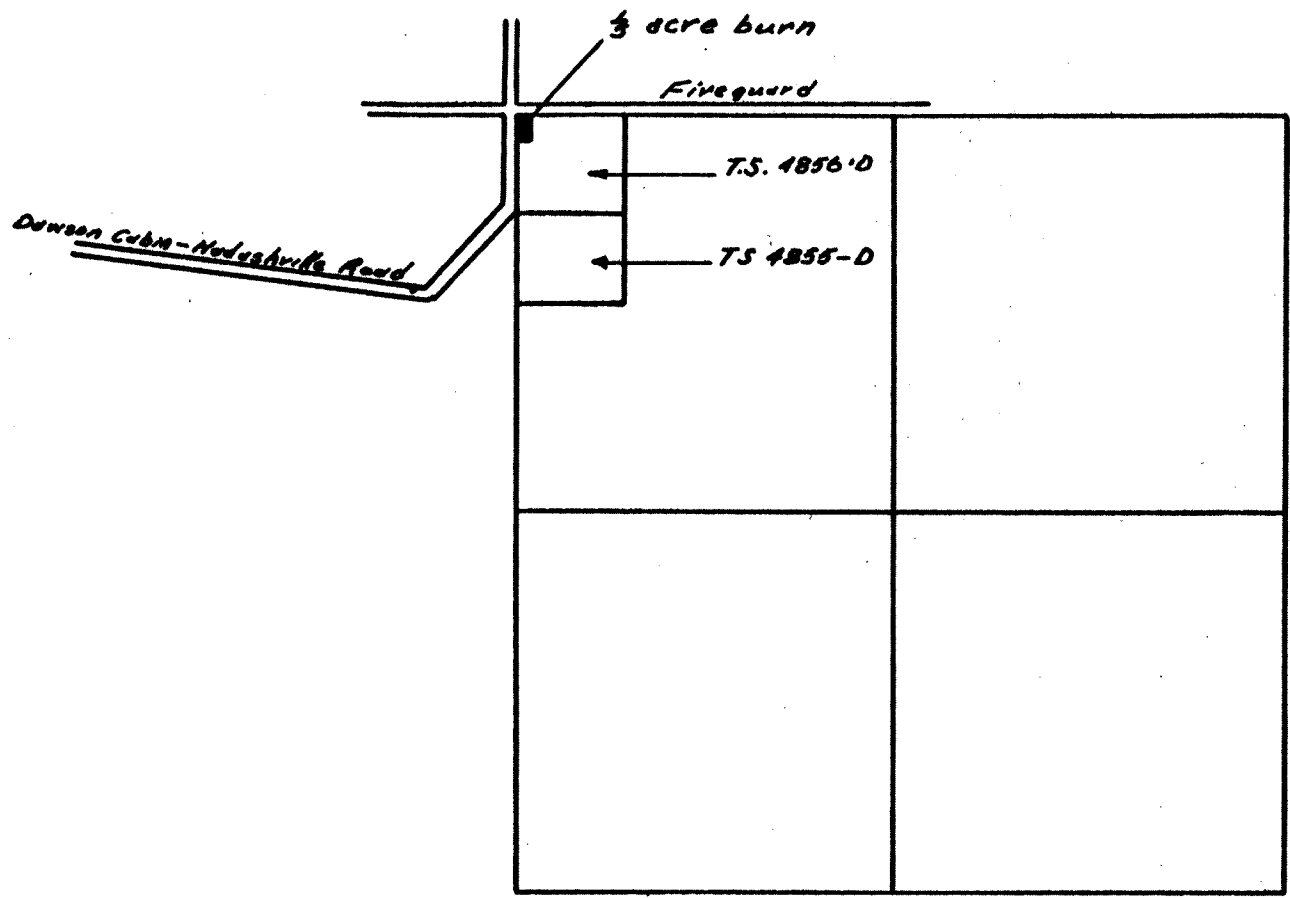
WORK PROPOSED FOR 1967

Seeding

An additional 1.2 ounces of treated jack pine seed will be sown on the 1/10-acre plot during the early spring to ensure an adequate number of seedlings for study.

¹Forest Technician, Canada, Dept. Forestry and Rural Development.

Figure 1



Sec. 34, Twp. 7, Rge. 11

Scale 4" = 1 mile

ACKNOWLEDGEMENT

The author wishes to acknowledge the assistance provided by the Department of Mines and Natural Resources of Manitoba in the preparation of the burn area.