SX 85207G

SCREENING INSECTICIDES TO CONTROL THE LYGUS BUG

Working Plan
1985

G. Shrimpton
Working Plan for SX 85207 G

Screening insecticides to control the Lygus bug.

(1) **Objective**

To screen 7 insecticides for control of the Lygus bug *Lygus lineolaris* on bare-root 1+0 spruce and pine seedlings. To obtain registrations for the insecticides that were effective.

(2) **Location**

Four separate sections of bed 90 m long at the edge of the bare-root 1+0 pine panels and 4 in the spruce at Red Rock Nursery.

(3) **Trial Stock**

<table>
<thead>
<tr>
<th>Species</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1+0 bare-root lodgepole pine</td>
<td>360 m of bed</td>
</tr>
<tr>
<td>&quot;   &quot;   &quot; spruce</td>
<td>360 m of bed</td>
</tr>
</tbody>
</table>

(4) **Plot Design**

Seven insecticides plus 2 controls (one untreated, one under screening) x 4 replicates using randomized block design in both pine and spruce. Each plot is 10 meters of bare-root bed.

(5) **Dates of Spray and Assessment**

a) Spray - Foliar applications using backpack sprayer every 3 weeks throughout the growing season from approximately mid-May to the end of August.

b) Assessment - Visual assessments will be made 24 hours and 1 week after insecticide application. Random seedlings will be measured for height, caliper and root weight at the end of the growing season.

(6) **Summarize and Report**

Report will be completed winter 1985/86. Data on effective chemicals will be sent to Ottawa with application(s) for minor use.

(7) **Report Distribution**

Nursery container culturist
Manager of Nurseries
TITLE: Trial to test insecticides for control of the Lygus bug.

OFFICER I/C: G. M. Shrimpton

LOCATION: Red Rock Nursery, Ministry of Forests

REGION/DISTRICT: Prince George

OBJECTIVE: To screen 7 insecticides for control of the Lygus bug
Lygus lineolaris. Efficacy and phytotoxicity will be assessed,
and the results if positive, will be submitted with an
application for minor use, to gain appropriate label extensions.

PROGRESS: Working plan completed.

STATUS: Trial to be established May 1985.

REPORT DISTRIBUTION: Working plan/Library - Silviculture
Ottawa minor use program
Nursery bare-root culturist
Manager of Nurseries
Working Plan for SX 85207 G

Screening insecticides to control the Lygus bug.

(1) **Objective**

To screen 7 insecticides for control of the Lygus bug Lygus lineolaris on bare-root 1+0 spruce and pine seedlings. To obtain registrations for the insecticides that were effective.

(2) **Location**

Four separate sections of bed 90 m long at the edge of the bare-root 1+0 pine panels and 4 in the spruce at Red Rock Nursery.

(3) **Trial Stock**

<table>
<thead>
<tr>
<th>Species</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1+0 bare-root lodgepole pine</td>
<td>360 m of bed</td>
</tr>
<tr>
<td>&quot; &quot; spruce</td>
<td>360 m of bed</td>
</tr>
</tbody>
</table>

(4) **Plot Design**

Seven insecticides plus 2 controls (one untreated, one under screening) x 4 replicates using randomized block design in both pine and spruce. Each plot is 10 meters of bare-root bed.

(5) **Dates of Spray and Assessment**

a) Spray - Foliar applications using backpack sprayer every 3 weeks throughout the growing season from approximately mid-May to the end of August.

b) **Assessment**

Phytotoxicity - Visual assessments will be made 24 hours and 1 week after insecticide application.
Random seedlings will be measured for height, caliper and root weight at the end of the growing season.

Efficacy - Lygus damage in treated and untreated plots will be measured and compared.

(6) **Summarize and Report**

Report will be completed winter 1985/86. Data on effective chemicals will be sent to Ottawa with application(s) for minor use.

(7) **Report Distribution**

Nursery container culturist
Manager of Nurseries