Title: Evaluation and comparison of animal repellants ANIPEL and ANIPEL-PLUS

Objectives: To compare and evaluate the effectiveness of ANIPEL and ANIPEL-PLUS as a deterrent to deer browsing where current pressures exist. Also, to compare the cost of these products with vexar tubes over a period of time sufficient for the seedlings to attain such size to escape severe browsing damage.

Location: Davie Bay, Texada Island, - Openings 92F068-9 and 92F069-77 (see attached maps)

Trial Materials: 900 Douglas-fir 2-0 bareroot seedlings 300 ANIPEL tablets 300 ANIPEL-PLUS tablets

Trial design: Three replicatoin X Three treatments (one control) X 100 trees/treatment

Method: Three plots of 100 seedlings each will be established in 3 separate locations on Texada Island. Contents of Plots:
   a) 100 seedlings no treatment - control
   b) 100 seedlings with ANIPEL tablet in planting hole
   c) 100 seedlings with ANIPEL-PLUS tablet in planting hole

   All seedlings will be labled and covered with a vexar tube for a short period of time till the seedling has managed to uptake some of the product and then the vexar tube will be removed

Establishment and Assessment: Establish late March 1989
   - Assess (measure) seedling height, current years growth, root collar diameter and degree of browse at establishment, after one growing season and every year after that till seedlings attain sufficient size to escape severe browsing damage

Summary and Report: - summarize data collected after first growing season, compare these to costs of ongoing vexar tubing projects in the District and issue an interim report in winter of 1989/90
   - summarize five year (final) data and costs and issue a final report in winter of 1993/94

Report distribution: Forest Sciences Officer - Vancouver
   Silviculture Officer - Vancouver
   District Manager - Sunshine Coast
   Library - Silviculture Branch
PROPOSAL FOR SX TRIAL

Title: Evaluation and comparison of animal repellants "Anipel" and "Anipel Plus"

Project Leader: Don Ronison, Technician, Sunshine Coast Forest District

Advisor: Ron Greschner, District Silviculturist, Sunshine Coast Forest District

Location: Davie Bay, Texada Island, (see attached maps)

Forest District: Sunshine Coast

Objectives: To compare and evaluate the effectiveness of ANIPEL and ANIPEL-PLUS as a deterrent to deer browsing where current pressures exist. Also, to compare the cost of these products with vexar tubes over a period of time sufficient for the seedlings to attain such size to escape severe browsing damage.

Progress: Working Plan attached Spring 1989

Report Distribution: Working Plan/Library - Silviculture Branch
Silviculture Officer - Vancouver
Forest Sciences Officer - Vancouver
District Manager - Sunshine Coast

Abandoned - Product caused mortality of seedlings

Cancelled 1/89
Slow Dispersal Tablets to Prevent Animal Damage and Promote Growth in Newly Planted Seedlings

**How ANI-PEL PLUS tablets work**

ANI-Pel Plus is a combination of animal deterrents and fertilizers pressed into a compact, easy to use tablet with slow release capabilities designed to provide the plant with protection from damage by animals as well as supply a full range of major nutrients during the period of establishment. The tablet consists of irritants and odorants along with a nitrogen source, available phosphorous, potassium, and iron to provide an ample reserve of deterrents and nutrients. Soil bacteria and moisture acting on the surface of the tablets gradually convert the contents to a form that can be absorbed by the root system. The non-toxic odorants and irritants in the tablet are carried up into the plant to discourage browsing and gnawing by animals while the nutrients accelerate growth to increase chances of survival.

**Special Advantages**

- **ANI-Pel™ Plus tablets** can be produced to feed seedlings for up to 5 years.
- **Safe, easy to handle, convenient.**
- **Premeasured tablets** insure uniform and adequate application.
- **Labour saving**, installed at time of planting or tree farm level, and eliminates reapplications.
- Root zone placement eliminates waste and surface residue.
- Leach resistant properties of tablets protect underground water from pollution.
- **ANI-Pel™ Plus tablets** promote seedling growth to reduce period of vulnerability.

**Recommended Application Rates**

<table>
<thead>
<tr>
<th>Container</th>
<th>Seedlings</th>
<th>Established Trees</th>
</tr>
</thead>
<tbody>
<tr>
<td>grown</td>
<td>at time of planting</td>
<td>2 to 3 30 gr. tablet</td>
</tr>
<tr>
<td>one 13 gr. tablet</td>
<td>one 30 gr. tablet</td>
<td>2 to 3 30 gr. tablet</td>
</tr>
</tbody>
</table>

**Specifications**

Description: Tightly compressed, long lasting, slow release tablets. Weight: 15 and 30 grams. Fertilizer content: 20-10-5. Applications: new seedlings, mature seedlings and established plants.

Analysis:

- **Total Nitrogen**: 20%
- **Available Phosphorous**: 10%
- **Soluble Potash**: 5%
- **Calcium**: 2.5%
- **Sulphur**: 1.5%
- **Iron**: 0.35%
- **Deterrents**: 22%
- **Binders and release agents**: 38.45%
- **Total**: 100.00%

Call for your area distributor:

T.S. RESEARCH LTD., 13550 106th Avenue, Surrey, B.C. V3T 2C5

Tel: (604) 585-7161 Fax: (604) 585-2873

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