Evaluation of additives with bracken herbicides applied to Boomsprayer.

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TRIAL TITLE: Evaluation of additives with Bracken herbicides applied by Boomsprayer

TRIAL NUMBER:

OFFICERS: R. Madin, J. Buckley

CO-OPERATOR: J. Déspisse LOCATION: Cape Naturaliste

CROP:

SOIL TYPE: Paper bark, redgum BLANKET TREATMENT: sand

GROUND PREPARATION:

EXPERIMENTAL DESIGN: Randomized block

PLOT SIZE: 5 m x 30 m

HARVESTING:

SPRAYING DETAILS:

SPRAYING DATE: December 17, 1987 TIME: 9.00 am

EQUIPMENT: Toyota Hilux NOZZLE TYPE: 110015LP 45° Back

PRESSURE: 200 kPa VOLUME: 130 L/ha

WIND SPEED: 0-5 km/hr DIRECTION: SE

TEMPERATURES: DRY: 28.5°C WET: 24°C RH: 69%

MOISTURE: SURFACE: Dry DEPTH: Damp

CHEMICAL: Roundup, Brushoff, Logran, Glean

ADDITIVES: Wetting Agent, Pulse Penetrant, Crop Oil

CROP GROWTH STAGE: Bracken, second year after slashing

WEED GROWTH STAGE: 95% mature fronds at height of up to 1 metre.
Evaluation of additives with bracken herbicides applied by Boomsprayer

<table>
<thead>
<tr>
<th>Treatment</th>
<th>Rate</th>
<th>Additive</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Roundup</td>
<td>6 L</td>
<td>Nil</td>
</tr>
<tr>
<td>2 Roundup</td>
<td>6 L</td>
<td>0.2% Pulse</td>
</tr>
<tr>
<td>3 Brushoff</td>
<td>25 g</td>
<td>0.25% WA</td>
</tr>
<tr>
<td>4 Brushoff</td>
<td>25 g</td>
<td>1.0%</td>
</tr>
<tr>
<td>5 Brushoff</td>
<td>25 g</td>
<td>0.25% WA + 1.0% Oil</td>
</tr>
<tr>
<td>6 Brushoff</td>
<td>25 g</td>
<td>0.2% Pulse</td>
</tr>
<tr>
<td>7 Brushoff</td>
<td>50 g</td>
<td>0.25% WA</td>
</tr>
<tr>
<td>8 Brushoff</td>
<td>50 g</td>
<td>0.2% Pulse</td>
</tr>
<tr>
<td>9 Logran</td>
<td>50 g</td>
<td>0.25% WA</td>
</tr>
<tr>
<td>10 Glean + Brushoff</td>
<td>15 g + 10 g</td>
<td>0.25% WA</td>
</tr>
<tr>
<td>11 Control</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

**Comments**

Treatments were applied in December 1987. Height of the Bracken made application by boom difficult due to inability to adequately raise the boom to give clearance. Some brushing of the Bracken with the boom was unavoidable.

An adjoining area of Bracken was treated with a back pack mister at Setting NO. 4 using 5 g of Brushoff in 10 L of water plus 1% Ulvapron.

Assessment of the trial will be made in March 1988.