

Modernised Silviculture

OPTIMISING PRODUCTION, SIMPLY...

21 October, 2020



SILVIX FORESTRY (Pty) Ltd



Modernisation in SA Forestry

AIMS/GOALS:

- Increased production
- Quality of operations
- Social accountability
- Ergonomic standards

BROADCAST SPRAY APPLICATION

Husqvarna Motorised Knapsack

- 3m Aluminium Boom
- 15L Capacity
- 2x OC Nozzles, 1x Flat Fan Nozzle
- 9M swath

- 80-90L/ha (@ 2meters per second pace)
- 1ha sprayed every 1,1km walked

USES:

- Pre-plant Glyphosate application.
- Grass and Broad leaf selectives.





PLANTING EFFICIENCY

FAKA PLENTY PLANTING TOOL AND SQUAM KNAPSACK:

- 18L backpack capacity
- Simple/robust planting tool design
- Camlock hose connections (quick coupling)
- Self calibrated dosage, (beak has 600ml capacity)
- Ergonomically acceptable.





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DIRECT APPLICATION



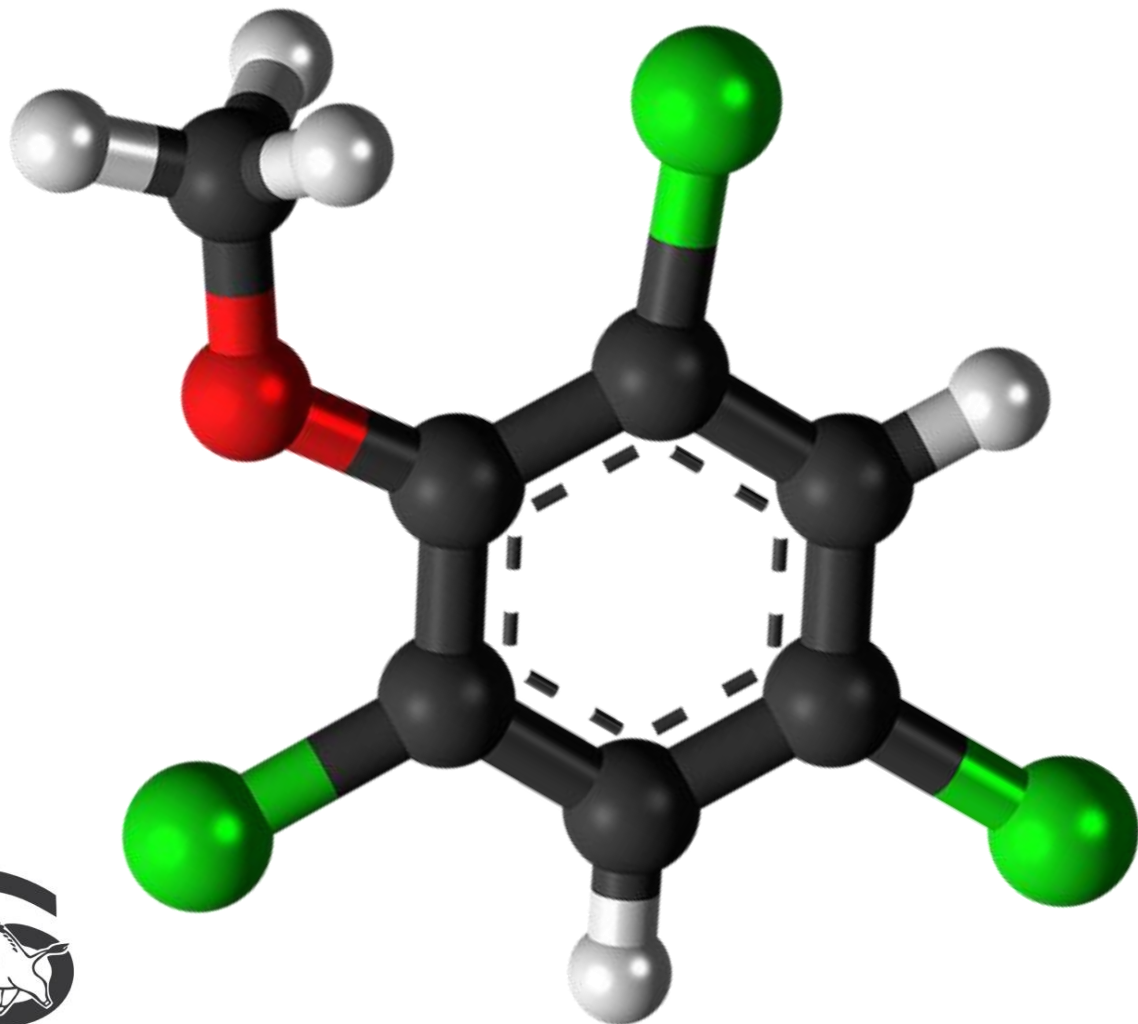
- Nutrition/Insecticide applied AT Planting
- Lower cost of transport/product handling/application
- Nutrients available to plant at root plug (no Phytotoxicity)
- Reduced stock shrinkage

THE BENDI BAR

- Derived from the Dribble Bar, smaller swath leads to more control at application.
- Direct application of Glyphosate (No drift from fines, increasing spraying window)
- Ring hoe alternative:
 - No loss of top soil moisture/organics
 - Highly productive in comparison
 - Longer control of weeds (with Glyphosate)
 - No chance of mechanically damaging seedling



WHAT CAN/HAS BEEN ACHIEVED,
and
WHERE TO FROM HERE IN MODERNISING??



AGRO-CHEMICALS





PRE-EMERGENT HERBICIDES

Metazachlor (Grasses, and some broadleaf in ideal conditions)

Herbicide applied first week of December 2018, directed pit spray



07/01/2019



16/01/2019



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HERBICIDES



WHATS IN THE PIPELINE???



GRASS SELECTIVES

- Clethodim **AND** Haloxyfop Combination

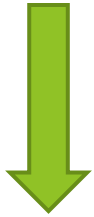
- Grass selectives, two different modes of action (reduced risk of resistance).
- “Over the top” of Pine, Eucalyptus and Wattle.
 - Safer for crop compared to Glyphosate
 - Broadcast application, higher production

CLOPYRALID TANK MIX COMING SOON!!



PRE EMERGENT HERBICIDES

FLUMIOXAZIN



- Annual Broadleaf weeds



S-METOLACHLOR



- Most annual grasses,
- Certain broadleaf weeds
- Sedges (in ideal conditions)

REGISTERED TANK MIX

KEEPING THE PIT CLEAN



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FLUMIOXAZIN + S-METOLACHLOR + GLYPHOSATE

- Trial work in progress for registered tank mix
- Can be applied with Bendi Bar post plant
 - Pre AND Post emerge weed control for the planting pit.
 - Can be applied pre plant on the planting line to ensure clean lines.
 - If applied correctly, could keep pit clean for 8-10 weeks



THANK YOU!!

SEAN MACKENZIE



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