

**DROPZONE**

**TECHNOTE**



**AUSTRALIA'S MOST  
EFFECTIVE 2,4-D.**

When you think 2,4-D expertise, think Nufarm Crop Protection. Our locally innovated and formulated solution, Nufarm DROPZONE sets a new standard for weed control. Upgrade your 2,4-D today.

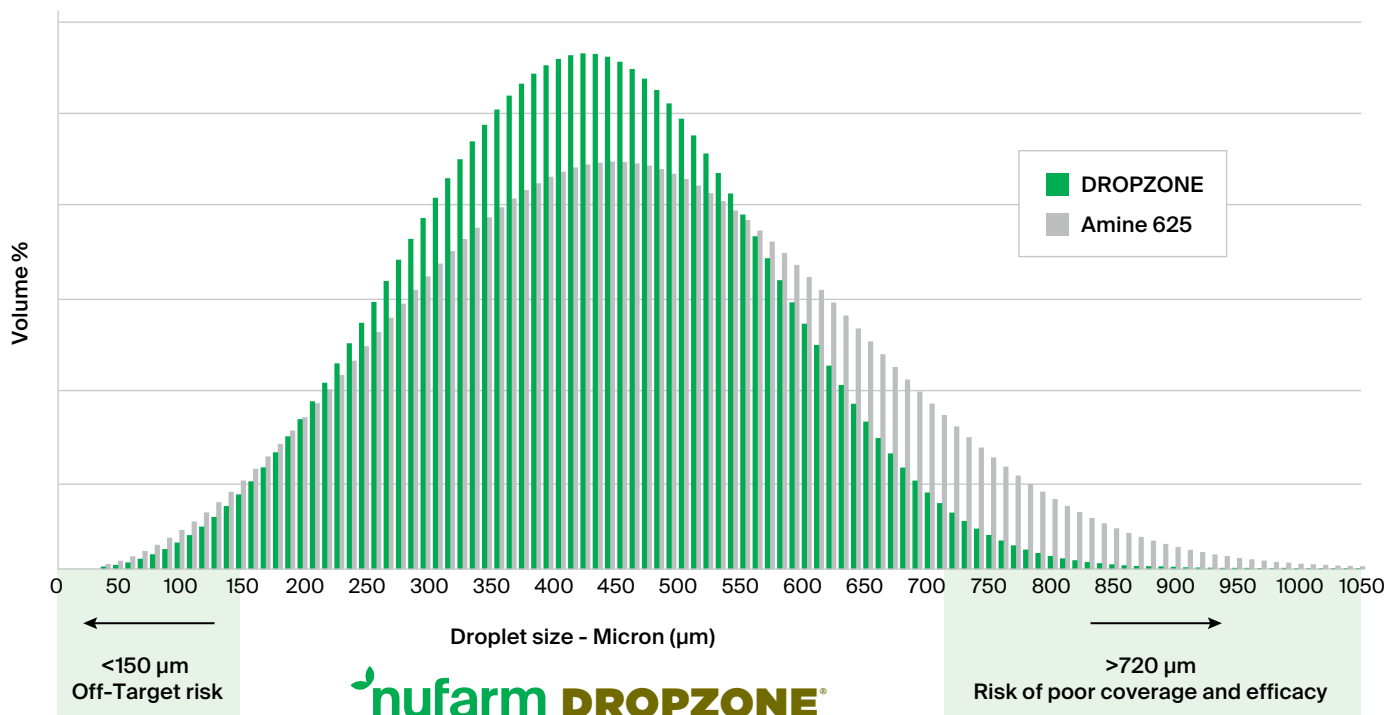
 **nufarm DROPZONE®**

**DROPZONE** is an efficacious, non volatile 2,4-D formulation for use in fallow, wheat, barley, grass pasture and sugarcane.

DROPZONE improves weed control by delivering true droplet optimisation, reducing drift and reducing oversized droplets, getting more DROPZONE to the target weeds. The benefit of droplet optimisation can be seen in the chart below comparing the droplet span of DROPZONE to a traditional 2,4-D amine formulation. DROPZONE significantly narrows the droplet span, resulting in 96% of the spray volume is in the optimal range, getting more herbicide to the target.

## Droplet optimisation with DROPZONE

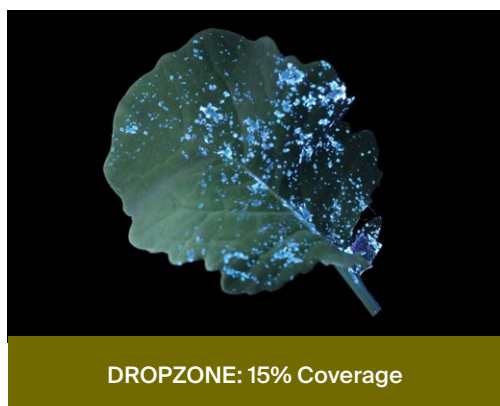
Very coarse spray quality - AIXR11003 at 3 Bar



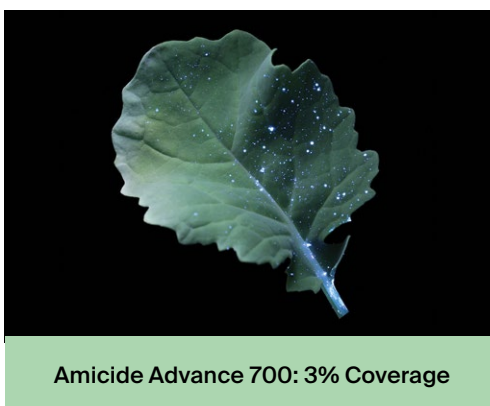
## THE OPTIMAL DROPLET SIZE FOR HERBICIDE APPLICATION IS BETWEEN 150 MICRON ( $\mu\text{m}$ ) AND 720 $\mu\text{m}$

- Droplets less than 150  $\mu\text{m}$  are classified as driftable fines and increase off target risk.
- Droplets greater than 720  $\mu\text{m}$  are too large and can reduce efficacy due to poor coverage and retention.
- Droplet optimisation tightens the droplet span of DROPZONE getting more herbicide to the target weed.

## What does droplet optimisation look like on target weeds?



**DROPZONE: 15% Coverage**



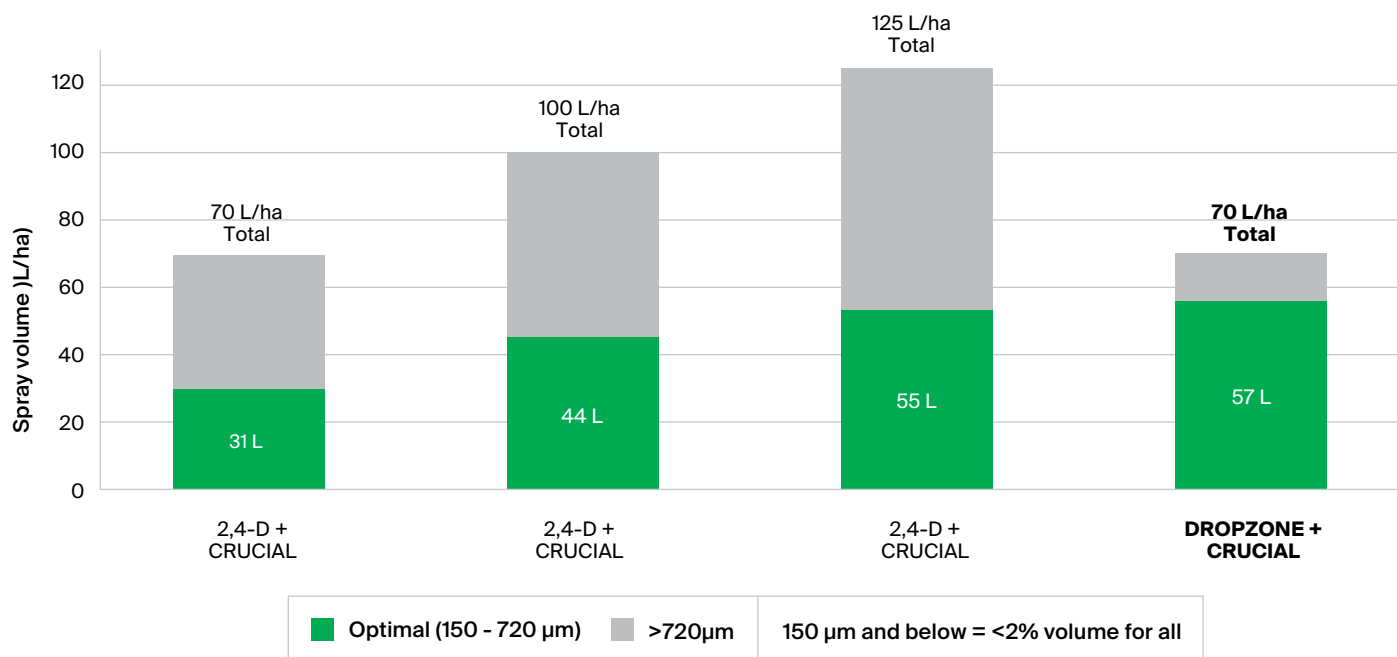
**Amicide Advance 700: 3% Coverage**

Image 1: Droplet optimisation in DROPZONE delivers better herbicide coverage and retention on weeds.

DROPZONE with droplet optimisation technology, delivers a greater volume of spray solution in the optimal range (150 µm to 720 µm), for **very coarse, extra coarse and ultra coarse** spray qualities.

The chart below shows Nufarm CRUCIAL + DROPZONE when applied with an **ultra coarse** spray quality, delivers nearly double the total spray volume within the optimal droplet range compared to traditional 2,4-D + CRUCIAL. Using larger spray qualities are effective at reducing drift, often this comes at the expense of weed coverage and efficacy, particularly in high stubble scenarios or when targeting small, vertical weeds. DROPZONE increases coverage by reducing the number of oversized droplets, getting more herbicide to the target and improving weed control at larger spray qualities.

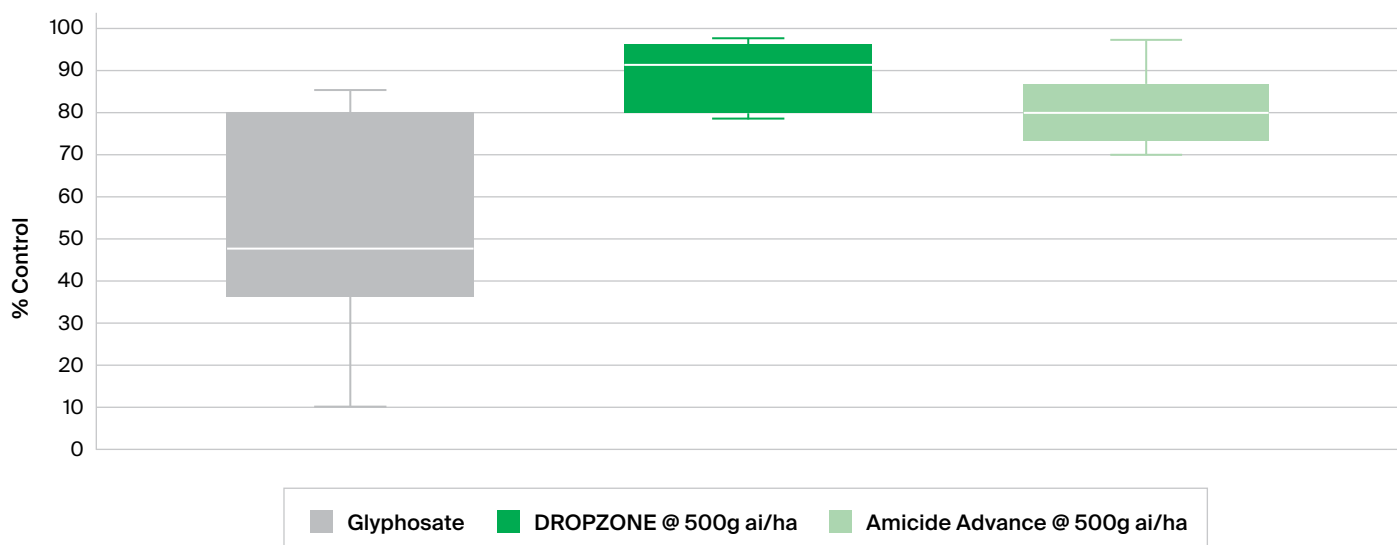
## Droplet optimisation with DROPZONE



## FINAL % CONTROL SUMMARY

### DROPZONE Versus 2,4-D Amine in tank mix with glyphosate

Efficacy matters in fallow weed control. In 11 paired trial results, DROPZONE has shown consistent improvement in control of key broad leaf weeds compared to Amicide Advance 700. Here, in a tank mix with glyphosate, switching from Amicide advance to DROPZONE has shown a clear increase in efficacy mallow, paddy melon, sowthistle (glyphosate susceptible), fleabane, wireweed, canola, field pea, vetch.



## Sowthistle Efficacy - 2,4-D alone

NUSQ-21-21176509-H08 VC spray quality 100 L/ha



2,4-D Amine @ 500 g/ai



DROPZONE @ 500 g/ai

### BENEFITS OF DROPZONE

- **Better efficacy & faster brownout.** Unique formulation leads to improved control and consistency.
- **Droplet Optimisation.** More herbicide to the target with the right sized droplets for better control and reduced drift.
- **Low odour 2,4-D.** Enhance your application experience with our new low odour formulation.

### COMPATIBILITY

DROPZONE® is physically compatible with Nufarm products: CRUCIAL®, Glyphosate 450, weedmaster® DST®, weedmaster® DUO, Kamba® 750, Archer® 750, Saracen® and Terrad'or; and other products: Fluroxypyr 400 products, Starane® Advanced, Garlon® 600.

Consult the DROPZONE label for minimum water rate and mixing order.

### APPLICATION

DROPZONE must be applied with a spray quality of very coarse (VC) or larger as per 2,4-D labelling requirements.

DO NOT apply if there are hazardous surface temperature inversion conditions present at the application site during the time of application.

**DROPZONE with droplet optimisation technology is a non-volatile, low drift, low odour formulation which has resulted in reduced buffer zones on the label compared to traditional 2,4-D formulations.**

For more information, contact your local Nufarm Business Development Manager

The information and recommendations set out in this brochure are no substitute for professional or expert advice and are based on tests and data believed to be reliable at the time of publication. Results may vary, as the use and application of the products is beyond our control and may be subject to climatic, geographical or biological variables, and/or developed resistance. To the maximum extent permitted by law, Nufarm Australia Limited disclaims all warranties of any kind, whether express or implied, including but not limited to any warranty that the information is up-to-date, complete, true, legally compliant, accurate, non-misleading or suitable.

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