

Nufarm

# DRAGON<sup>®</sup>



Reign terror on black spot  
in your orchard with  
Dragon<sup>®</sup> 700WG



Grow a better tomorrow.

## Dragon<sup>®</sup> 700WG is a protectant dithianon fungicide from Nufarm for black spot control in apples, pears and grapes, *Glomerella* in apples, and downy mildew in grapes.

Extensively tested in New Zealand orchards, trials show Dragon 700WG provides high levels of disease control while maintaining excellent fruit finish, as well as being safe to beneficial insects and bees.

This quality granular formulation has been developed and manufactured by Nufarm for local conditions.



## BENEFITS OF DRAGON 700WG

### Two handy pack sizes:

- > Available in both a 1080g pack and a 2.5kg pack. The 1080g pack contains enough for a typical 3 ha orchard spray area at the recommended rate of 360g/ha.

### Multi site activity - Group M9 Fungicide

- > Dragon 700WG controls disease at a number of sites within fungal cells by interfering with enzyme activity.
- > No known resistance.

### Provides strong inhibition of spore germination

- > Excellent disease control.
- > Extremely active on black spot spores.

### Low hazard to beneficials

- > Recommended for IPM programmes.
- > Safe to beneficial insects including bees.
- > Non-toxic to earthworms.

### High quality WDG formulation

- > Formulated fine particles for even spray distribution and improved adhesion.
- > Easy to mix and use.

### Excellent fruit finish

- > Extensively tested on New Zealand apples.

### Highly active fungicide

- > Low usage rate, only a small amount of Dragon 700WG is required to control disease.

## WITHHOLDING PERIODS

**GRAPES: 21 DAYS**

**PIPFruit: 42 DAYS**

Refer to export spray programmes for appropriate export PHI.

# NEW ZEALAND TRIAL PROGRAMME

Dragon 700WG has been tested in five fully replicated independent trials.

- **Five fruit finish trials which included three disease control trials**
- **Trials carried out in both Hawkes Bay and Nelson**
- **Two seasons – 2013/14 and 2014/15**
- **Two cultivars – Pacific Queen and Royal Gala**
- **Comparison of dilute and 3x concentrate sprays**



## DRAGON 700WG HAS EXCELLENT FRUIT FINISH PROPERTIES

Dragon 700WG provided equivalent exportable fruit yields to the industry standard in all trials and percentage exportable fruit was equivalent to that achieved by the industry standard Delan® in all trials.

## RUSSET INCIDENCE AT HARVEST

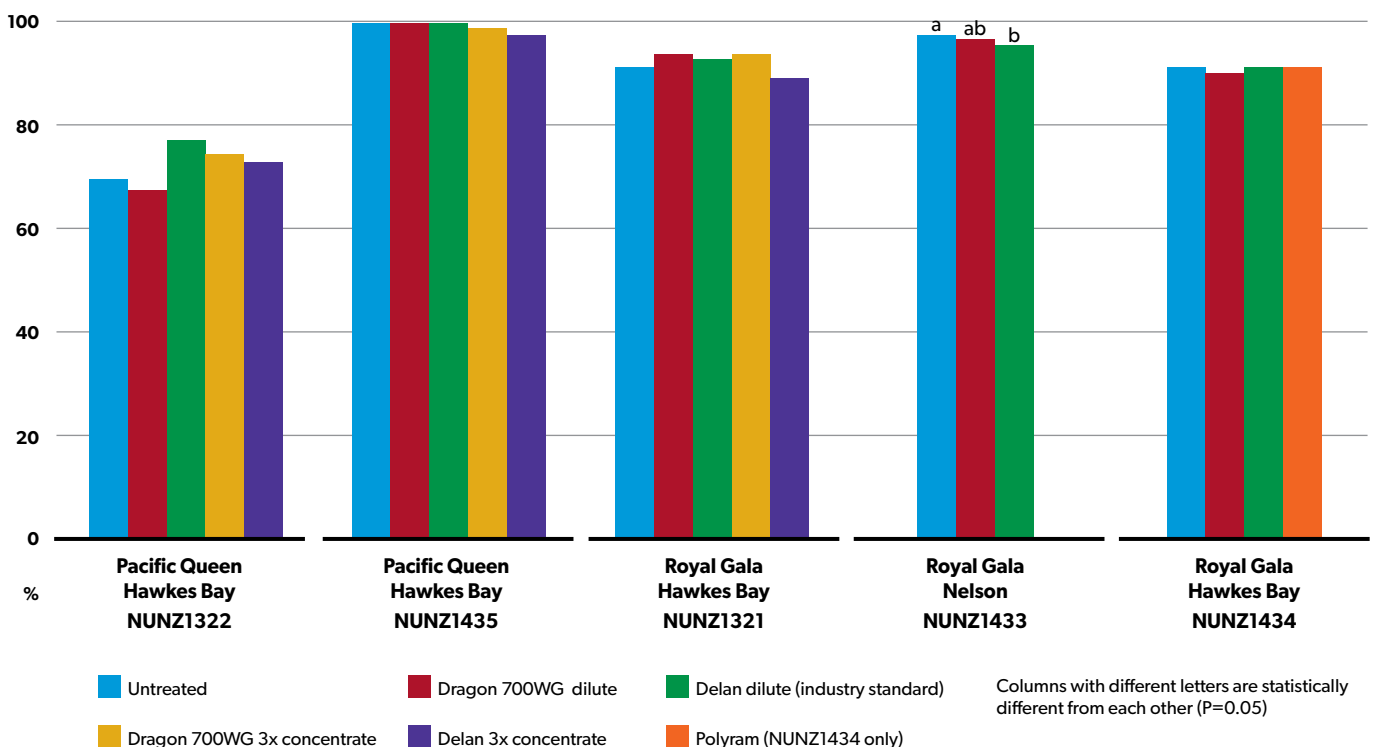
- > There were no significant differences in total russet incidence between the untreated, Dragon 700WG and Delan treatments in all trials
  - Stem end russet was the dominant type of russet with no significant treatment differences recorded in any trial.
  - Dragon 700WG and Delan application resulted in a slightly elevated level of cheek russet in Nelson (NUNZ1433) compared to the untreated, however there was no statistical difference between the two fungicides.
- > There were no significant differences between dilute and 3x concentrate applications (Trials NUNZ1321, NUNZ1322, NUNZ1435)

## EXPORT PACKOUT

Both Dragon 700WG and Delan treatments resulted in a similar export packout in all trials.

In trial NUNZ1434 Dragon 700WG and Delan provided the same percent export packout as Polyram®.

## PERCENT EXPORT PACKOUT (based on russet only)

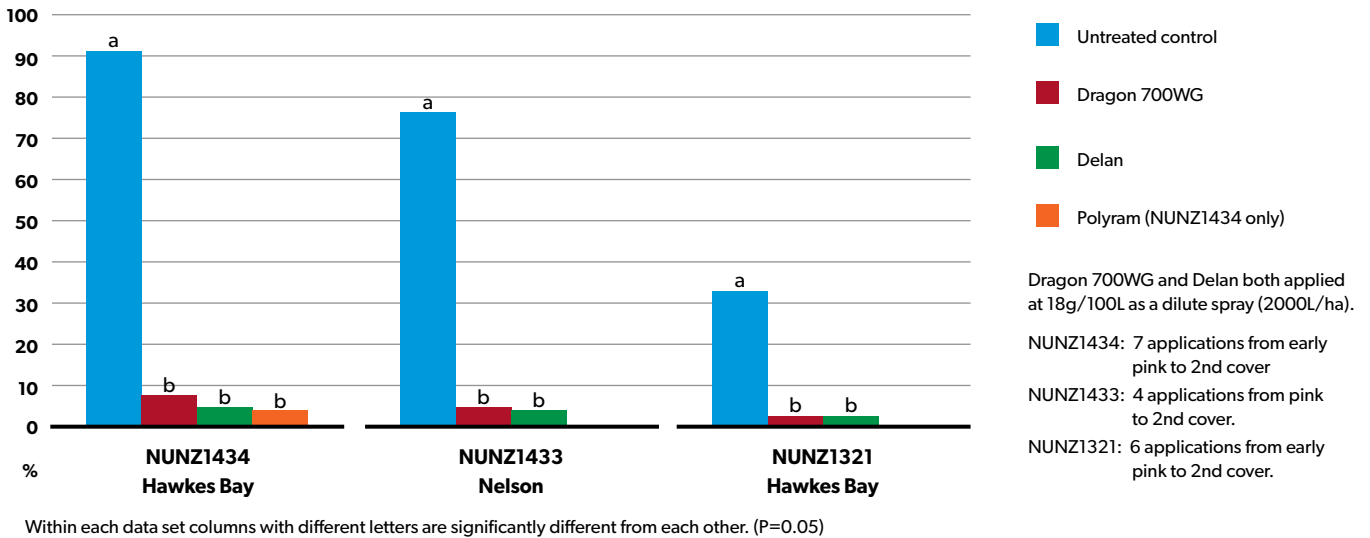


NUNZ1433 & NUNZ1434: trials conducted by PGG Wrightson. NUNZ1321, NUNZ1322 & NUNZ1435: trials conducted by Eurofins Agrosience Services.

# BLACKSPOT CONTROL

Dragon 700WG provides excellent control of blackspot.

## PERCENT INCIDENCE OF BLACKSPOT AT HARVEST Royal Gala



## BENEFICIALS

Published research shows that the active ingredient in Dragon 700WG has little or no effect on *Typhlodromus pyri*, *Galendromus occidentalis*, *Phytoseiulus persimilis*, ladybirds, lacewings and parasitic wasps.

### References cited:

- Guidelines of the International Organisation for Biological Control.
- Centre for Environmental Stress & Adaptation Research, Latrobe University and IPM Technologies Pty Ltd., Melbourne. (2002) Ecotoxicology Testing. Acute and Sub-Lethal Toxicity Effects of Some Fungicides on Predatory Mites *Galendromus occidentalis*, *Phytoseiulus persimilis* and *Euseius victoriensis*. Final Report 10th December, 2002.
- Bernard, M.B. Horne, P.A. and Hoffmann, A.A (2004) Ecological pest management. The effect of viticultural fungicides on beneficial predatory mites. The Australian and New Zealand Grapegrower & Winemaker. 485: 7-12.
- NZ Pomefruit Industry Advice.
- Hetherington, S.D. (2005) Integrated Pest and Disease Management for Summerfruit, December 2005. NSW DPI.



## POWERFUL REWARDS FOR LOYALTY TO NUFARM

Every purchase of Dragon 700WG earns you valuable reward points in Priority Partnership®, the rewards programme for New Zealand farmers. If you would like to know more visit [www.prioritypartnership.co.nz](http://www.prioritypartnership.co.nz).



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