

A 'DIM' VIEW ON ANNUAL RYEGRASS.

The golden rule of any resistance management strategy has not changed; with each application ensure you get the highest level of weed control possible.

AFTER ALL THESE YEARS WHAT OFFERS THE BEST CHANCE OF ACHIEVING ADEQUATE CONTROL?

From research conducted by Nufarm, Plant Science Consulting, various agronomists and farmers, there is another option that growers can adopt.



NUFARM'S FACTOR + CLETHODIM + SUPERCHARGE ELITE

Although Nufarm's Factor acts in controlling weeds in a similar way to clethodim and is a "dim" herbicide, researchers have identified subtle differences and have demonstrated that even where clethodim resistance occurs,

Nufarm's Factor may offer control.

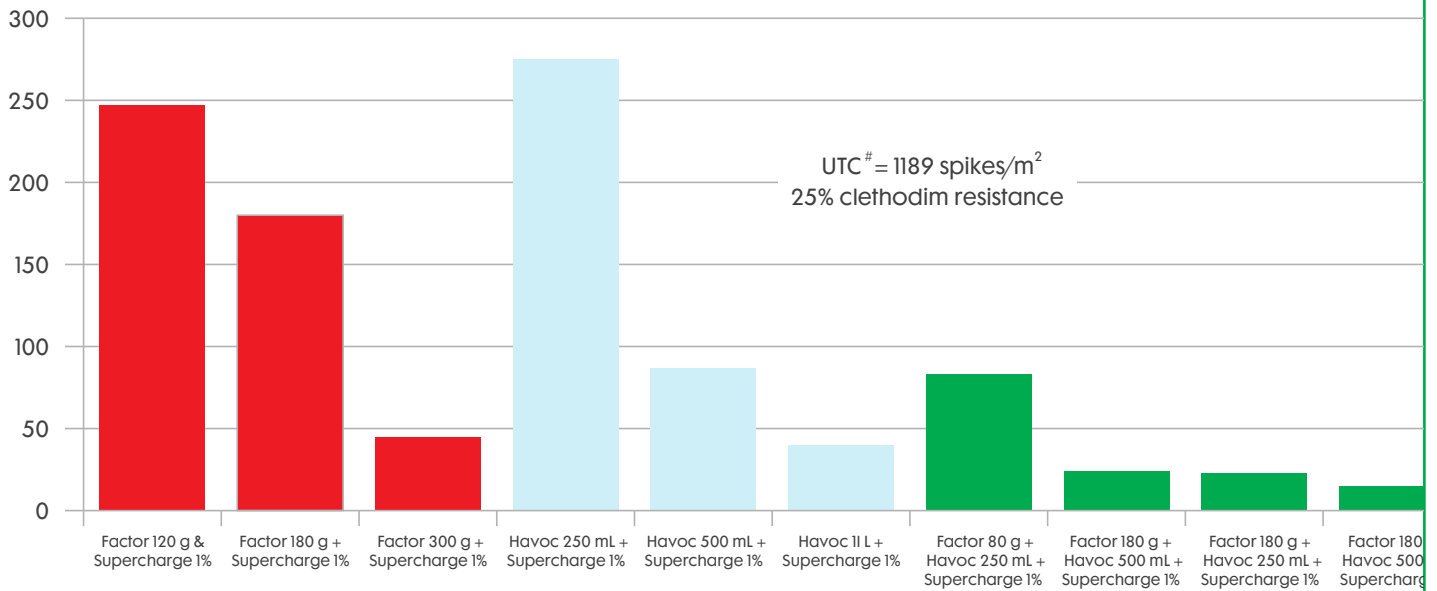
Powles et. al. (2007 & 2009) have confirmed that 7 amino acid substitution mutations occur in annual ryegrass that are responsible for the resistance to the Group A herbicides, 'fops' and 'dims'.

The mutation identified as "1781" is the most common mutation (Rr) and is responsible for stopping "fop" chemistry working, but this heterozygous mutation is controlled by clethodim and Nufarm's Factor (butroxydim). Homozygous mutations (RR) of "1781" are not controlled by clethodim but about 50% of these are controlled by butroxydim (Yu & Powles, 2007). Further identified mutations "2088" and "2078" have relatively weak resistance mutations that result in a fitness penalty for the plant.

This research scientifically demonstrated that economic control of annual ryegrass with Nufarm's Factor where 1781, 1999, 2018 and 096 mutations occur is higher than for any other Group A herbicide.

FIGURE 1: ARG SPIKES/m² MID NORTH SA

Figure 1: ARG Spikes/m² Mid North SA



* Highest registered rate of Factor is 180 g/ha

UTC = Untreated Control

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.

© 2021 Nufarm Australia Ltd. All trade marks (®,™) are owned by Nufarm or used under license, or are owned by third parties and used only to describe compatibility with those related products.

Please refer to respective product labels for registered uses in specific crops.

For more information, contact your local Nufarm Business Development Manager

nufarm.com.au/product/factor

