

8. SPECIFIC GUIDELINE FOR GROUP D HERBICIDES

| GROUP | D | HERBICIDE |
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Moderate resistance risk

Globally herbicide resistance to the Group D herbicide mode of action has been confirmed and documented in more than 10 grass and broadleaf weed species across more than 5 countries.

Group D resistance exists in Australia in 3 weed species including 5,000 populations of annual ryegrass and dense flowered fumitory. Resistance has generally occurred after 10 -15 years of use of Group D herbicides.

Where possible, avoid the use of Group D herbicides on dense ryegrass populations. Consider using alternative methods of weed control to reduce weed numbers before applying herbicides.

To assist in delaying the onset of Group D resistance, rotate and/or tank mix with herbicides from other modes of action.

Use Group D herbicides at robust rates eg the maximum label rates to ensure high levels of weed control particularly when targeting annual ryegrass.

All the above recommendations should be read in conjunction with the Integrated Weed Management (IWM) strategies

| GROUP D | Inhibitors of microtubule assembly |
|------------------------------------|---|
| <i>Benzamides:</i> | propyzamide (Kerb®) |
| <i>Benzoic acids:</i> | chlorthal (Dacthal®, Prothal®*) |
| <i>Dinitroanilines:</i> (DNAs): | oryzalin (Rout®*, Surflan®), pendimethalin (Stomp®), prodiamine (Barricade®), trifluralin (Jetti Duo®*, Treflan®) |
| <i>Pyridines:</i> | dithiopyr (Dimension®) |

* ***This product contains more than one active constituent***

List of chemical families, approved active constituents and, in parenthesis, the trade name of the first registered product or successor. Refer to the APVMA website (www.apvma.gov.au) to obtain a complete list of registered products from the PUBCRIS database.

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Advice given in this strategy is **Valid as at 22 June 2018**. All previous versions of this strategy are now invalid.
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