

**Herbicide Resistance Management Strategies**  
**Developed by the CropLife Australia Herbicide Resistance Management Review Group**  
 Valid as at 25 June 2015

## SPECIFIC GUIDELINES FOR GROUP Z HERBICIDES

GROUP	<b>Z</b>	HERBICIDE
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### Moderate resistance risk

Group Z resistance exists in Australia in wild oats resistant to flumetralin. Many of these flumetralin resistant wild oats also show cross resistance to Group A herbicides. There is also endothal resistance confirmed in annual poa (winter grass).

To assist in delaying the onset of resistance, rotate with herbicides from other modes of action.

Consider using alternative methods of weed control to reduce weed numbers before applying herbicides. These may include summer crop rotations, delayed sowing to control wild oats with a knockdown herbicide, higher seeding rates, brown manuring to stop seed set, etc.

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

CHEMICAL FAMILY	ACTIVE CONSTITUENT (FIRST REGISTERED TRADE NAME)
<b>GROUP Z</b>	<b>Herbicides with unknown and probably diverse sites of action</b>
<i>Arylamino propionic acids:</i>	flumetralin (Mataven L <sup>®</sup> )
<i>Dicarboxylic acids:</i>	endothal (Endothal <sup>®</sup> )
<i>Organoarsenicals:</i>	DSMA (disodium methylarsonate) (Methar <sup>®</sup> , Trinoc <sup>®</sup> *), MSMA (Daconate <sup>®</sup> )

\* ***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](http://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 25 June 2015**. All previous versions of this strategy are now invalid.

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