

Butisan®

Herbicide

PRODUCT UPDATE

Butisan® confirms dry sowing performance

In a 2018 trial to investigate its performance under dry sowing conditions, Butisan clearly outperformed other pre-emergence options on annual ryegrass and also provided excellent control of deadnettle (for which a label claim is pending).

Some pre-emergent herbicides have performed inconsistently in dry sowing conditions when enough rain to activate the product hasn't fallen within the following few days after application and incorporation by sowing. A 2018 trial at the BASF CropSolutions farm at Tamworth, NSW, was designed to see how Butisan would perform in sub-optimal conditions following incorporation in dry soils.

The objective was to ascertain if Butisan's comparatively high level of solubility and low K_{oc} value and vapour pressure (as shown in the table below) might deliver acceptable efficacy despite marginal environmental conditions at sowing.



Product	Group	Water solubility (mg/L)	Soil breakdown DT_{50}	Soil binding coefficients (K_{oc})	Vapour pressure (mPa @ 25°C)
Butisan	K	450	9 days	54	0.09
atrazine	C	30	60 days	100	0.0039
propyzamide	D	9	50.5 days	840	0.03
trifluralin	D	0.22	170 days	15800	9.5

Set-up

The soil at the trial site was extremely dry in the top 5 cm when the trial began and is prone to surface crusting. The products were applied on May 7, the canola was sown on May 8 and the plots remained dry until they received 15 mm on May 31 – 24 days after application and 23 days after IBS. The following day the plots received another 20 mm providing further incorporation and activation

The main target weed in the trial was annual ryegrass.

Results

Butisan provided excellent control of both annual ryegrass and deadnettle. It achieved significantly better control of ARG than the other three products. There was no statistical difference between the levels of deadnettle control for Butisan and atrazine.

Butisan was successfully activated after 23 dry days and produced 93.8% ARG control.

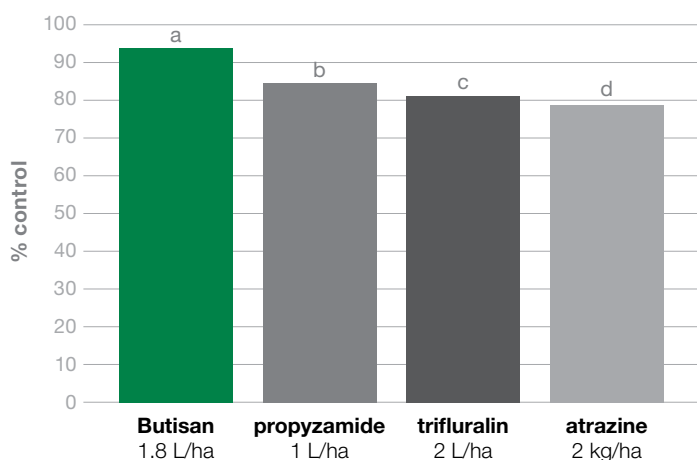
BASF
We create chemistry

Butisan[®]

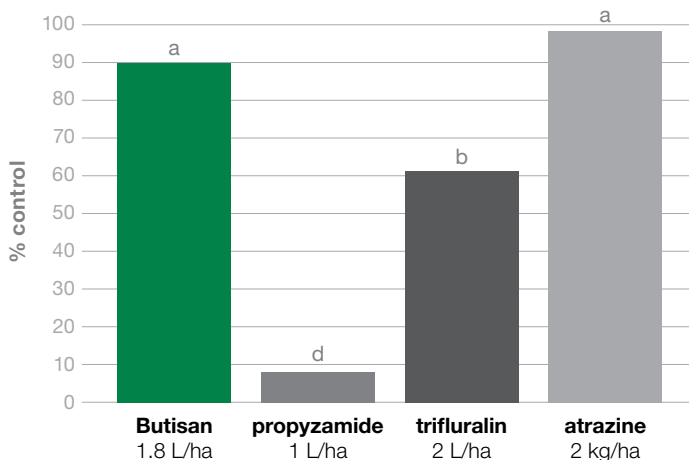
Herbicide



Annual ryegrass control



Deadnettle control



2018 BASF trial
CropSolutions Farm, Tamworth, NSW

The APVMA is currently reviewing an application to register Butisan for control of deadnettle



This lower level of control in the atrazine plot is clear in this aerial image.

“This is just a single trial, so we don’t want to exaggerate its significance,” says Andrew Hoy, the Herbicides Brand Manager at BASF. “But obviously it’s good to have confirmation of what anecdotal evidence had already suggested: that Butisan is a good option in dry sowing conditions. It’s also consistent with laboratory results showing that Butisan combines higher overall levels of solubility and mobility in the soil than other pre-emergent herbicide formulations registered for use in canola systems.”

It is important to note that the Butisan label states that weed control may be compromised if sufficient rain doesn’t fall within 7–10 days after sowing, so it is still recommended that dry sowing be carried out when sufficient rain is expected to provide incorporation and activation.

Butisan is suitable for use in all canola growing systems to control annual ryegrass when applied pre-sowing and incorporated by knife points and press wheels.

For more information about Butisan’s fit in canola programs, visit crop-solutions.basf.com.au or call **1800 558 399**

ALWAYS READ AND FOLLOW LABEL DIRECTIONS BEFORE USING ANY PRODUCTS MENTIONED IN THIS BULLETIN

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