

# NUFARM TERRAIN FLOW LIQUID HERBICIDE.



## 480 g/L SC liquid formulation of Flumioxazin.

- Improved handling compatible and easy pour liquid.
- Improved efficacy over granule formulations.
- Improved formulation performance suppression of ryegrass at 190 mL pulse rate.
- Wider, user-friendly label – new additions for use in lentils fallow, summer crops & sugar.

Nufarm Terrain Flow offers residual control of broadleaf weeds and grasses in a range of broadacre crops including Wheat, Faba beans, Lentils, Chickpeas, Field peas and Lucerne.

## WILD RADISH & RYEGRASS CONTROL – WHEAT QUAIRADING, WA (9 Weeks after application)



125 mL/ha Nufarm Terrain Flow



Wild Radish in the Untreated



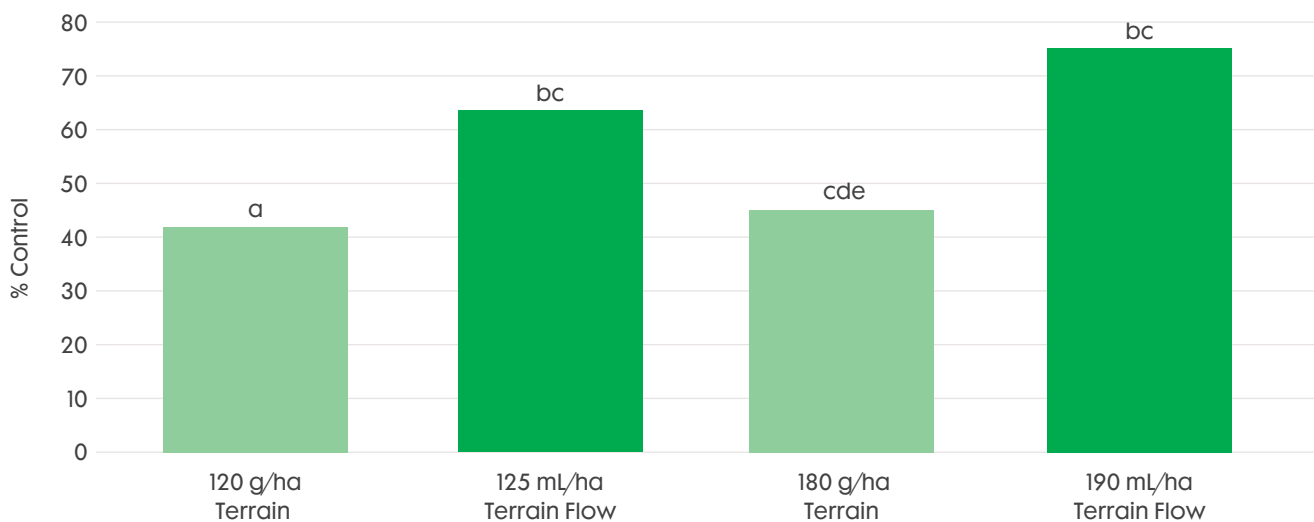
Annual Ryegrass in the Untreated

Trial reference: NUWA-21-21275502-H39

The new formulation of Nufarm Terrain Flow offers improved performance compared to the WG formulation, particularly on grass weeds.

Below shows the improved performance of new Nufarm Terrain Flow formulation on Annual Ryegrass when compared to the Nufarm Terrain WG formulation. This is at equivalent grams of active ingredient.

### Annual Ryegrass Control



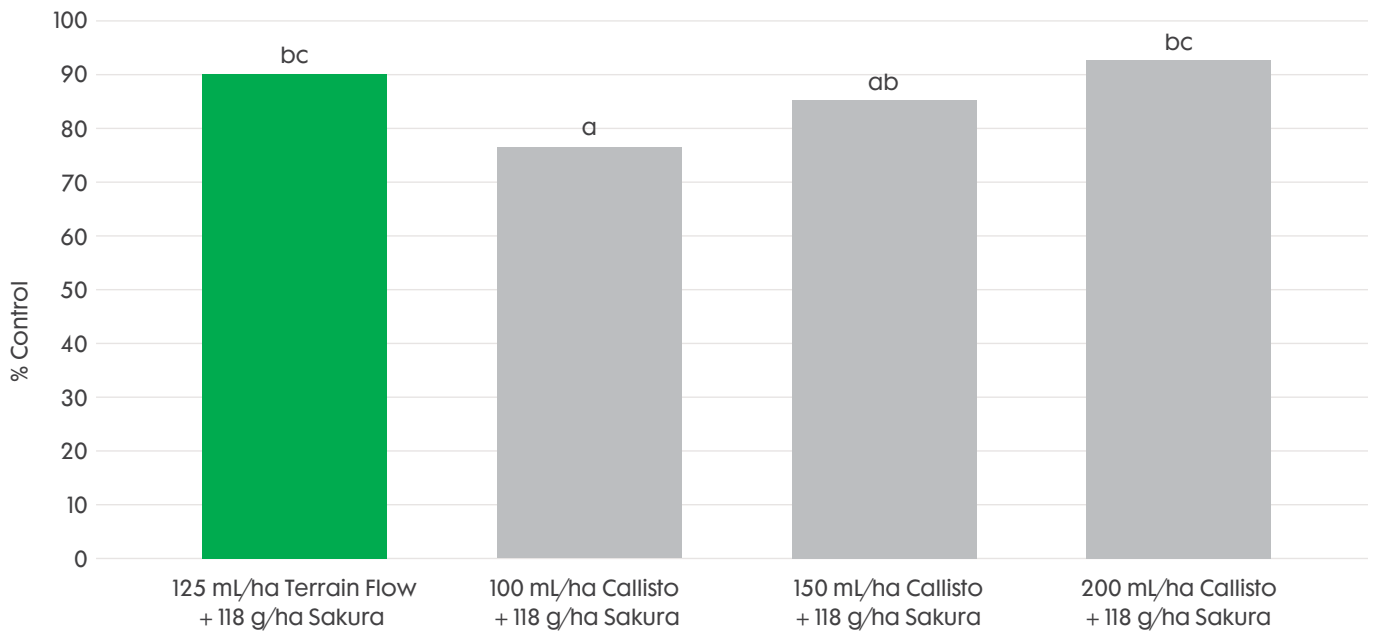
Trial reference: NUSN-19-21275502-H05

# WHEAT

Nufarm Terrain Flow is classified a group: 14 – PPO inhibitor (protoporphyrinogen oxidase-inhibiting) herbicide, it is a useful tool for herbicide resistance management.

Below is a trial that shows the activity of Nufarm Terrain Flow on Wild Radish 53 days after application in Wheat.

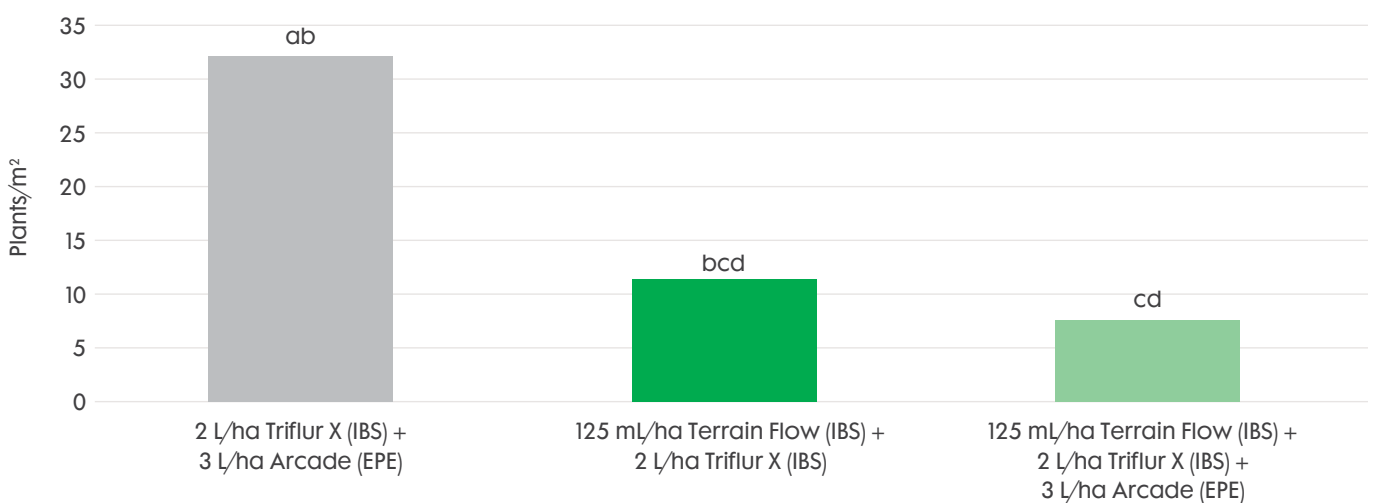
## Wild Radish % Control, Bolgart WA, 53DAA



Trial reference: NUWA-21-21275502-H40

The improved formulation of Nufarm Terrain Flow is a very useful tank mix partner with common wheat pre-emergent chemistry. Nufarm Terrain Flow has an ideal fit with grass pre-emergent herbicides to broaden the spectrum of weed activity.

## Wild Radish plants/m<sup>2</sup> Quairading, WA, 65DAA



Trial reference: NUWA-21-21275502-H39



As a quick reference a herbicide weed activity table has been generated from trials undertaken by Nufarm to provide a guide of the activity of Nufarm Terrain Flow and an number of other herbicides and mixtures.

	Annual Ryegrass	Bifora	Black bindweed	Voi Canola	Capeweed	Flaxleaf fleabane	Indian Hedge mustard	Prickly lettuce	Three-horn Bedstraw	Toad rush	Wireweed	Wild radish	Sowthistle	Double gee
<b>WHEAT</b>														
Trifluralin	***		**								****			***
Trifluralin + Avadex	****										****			***
Terrain + Trifluralin + Avadex	****	***	***	***	***	***	***	****	***	***	****	***	****	****
Terrain + Sakura	*****	***		***	***	***	***	****	***	****	**	****	****	**
Terrain + Overwatch	*****	*****		****	***	***	*****	*****	***	***	*****	*****	*****	***
Sakura	****									***				
Overwatch	****	*****		**	**	**	**	**	**	*	****	**	****	**

\*\* Some activity  
 \*\*\* Good activity

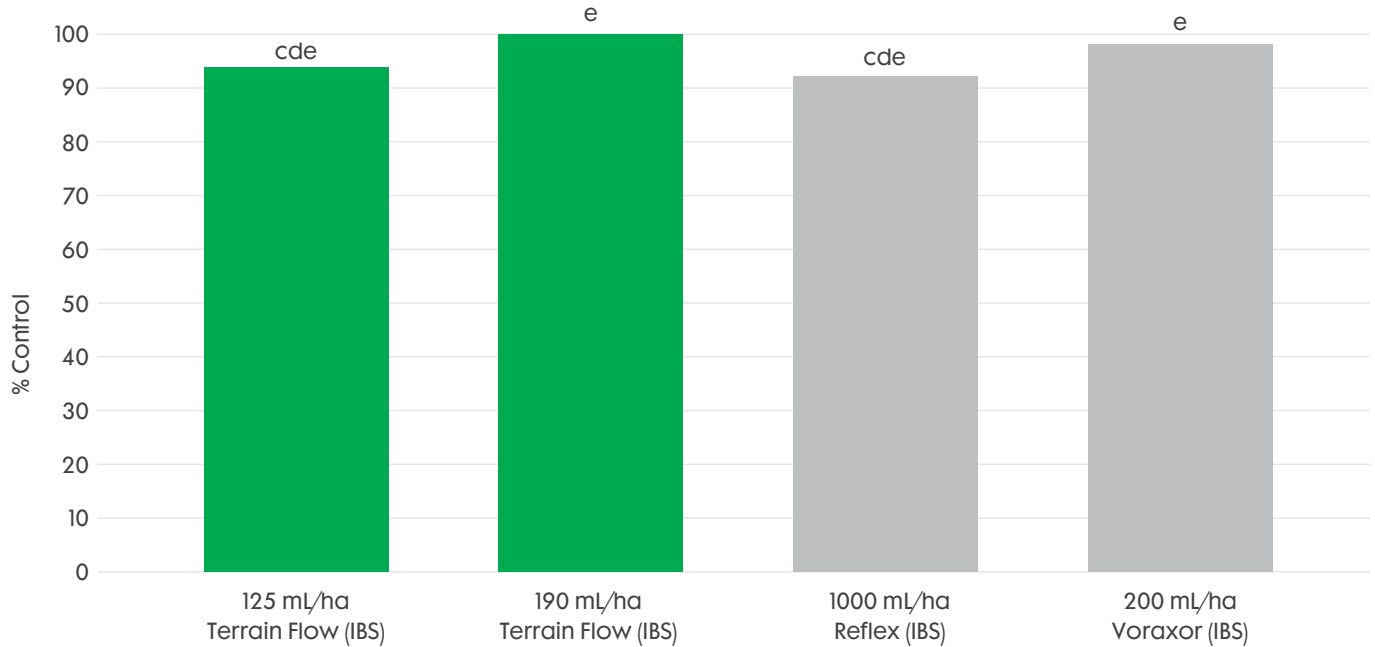
\*\*\*\* Excellent activity  
 \*\*\*\*\* Robust control

# PULSES

Pre emergent weed control in pulse crops is critical in most farming systems.

Nufarm Terrain Flow is highly active on key weeds like Sow Thistle, Prickly Lettuce and Brassica weeds. Below is a trial highlighting its activity on Sow Thistle.

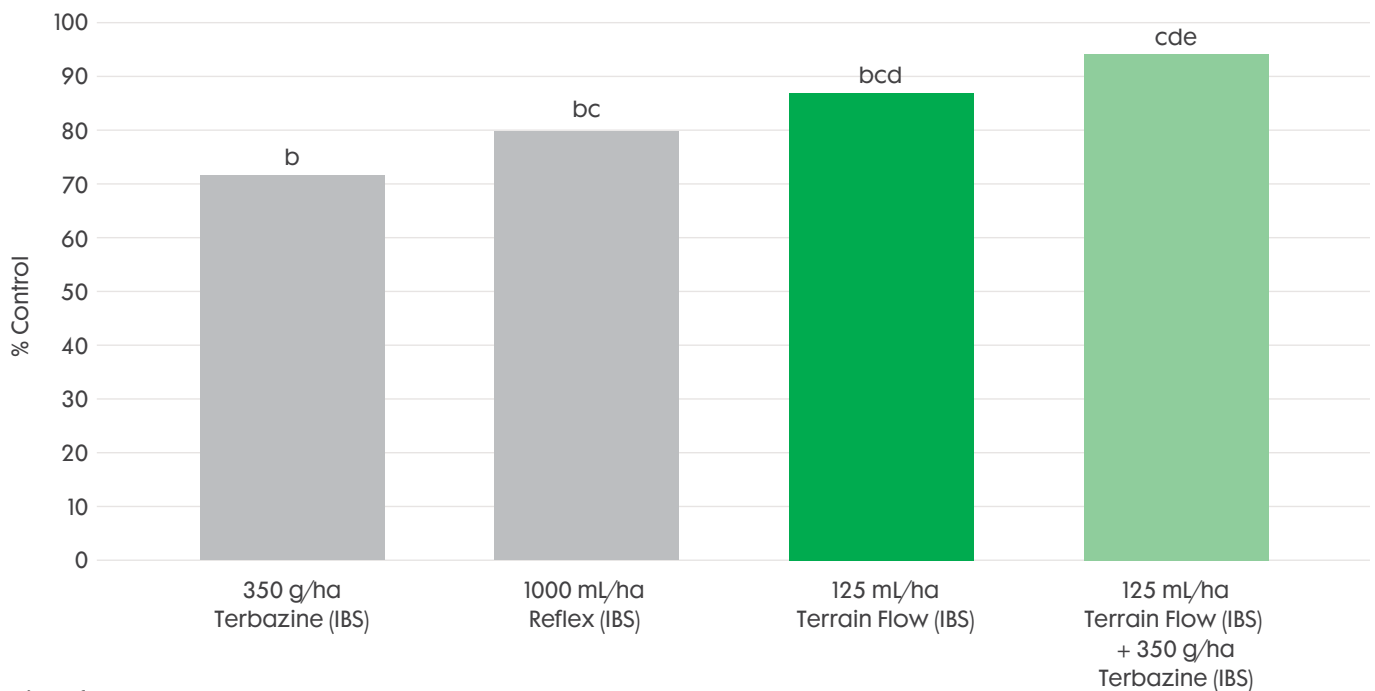
## % Control Sow Thistle Willamulka, SA 34 DAA



Trial reference: NUSA-21-21275502-H28

Nufarm Terrain Flow has excellent compatibility and as part of a sound resistance management strategy using it with a mix partner of an alternate herbicide group is recommended. Below demonstrates the benefit of Nufarm Terrain Flow when mixed with a Triazine herbicide (Terbutylazine)

## % Control Indian Hedge Mustard (34DAA)



Trial reference: NUSA-21-21275502-H27

As a quick reference a herbicide weed activity table has been generated from trials undertaken by Nufarm to provide a guide of the activity of Nufarm Terrain Flow and an number of other herbicides and mixtures.

	Annual Ryegrass	Bifora	Black Bindweed	Vol Canola	Capeweed	Flaxleaf fleabane	Indian Hedge mustard	Prickly lettuce	Three-horn Bedstraw	Toad rush	Wireweed	Wild radish	Sowthistle	Double gee
<b>LENTILS</b>														
Trifluralin	***		**								****			***
Diuron	**				****		***			***		***	***	***
Metribuzin	**				**		***			**	**	***	***	**
Terbutylazine	**		***			***	***	***		***	***	**	****	**
Terrain + Diuron	***	**	****	*****	*****	***	*****	****	**	****	****	*****	*****	***
Terrain + Trifluralin	****	**	***	****	***	**	****	****	**	***	****	****	****	****

<b>FABA BEAN &amp; FIELD PEA</b>														
Spinnaker	**	***			**		****	**	***	****	***	***	**	***
Terrain + Spinnaker	***	****	***	*****	***	***	*****	****	****	****	****	****	****	****
Terbutylazine	**		***			***	***	***		***	***	**	****	**
Terrain + Terbutylazine	***	***	****	*****	****	***	*****	****	**	****	****	****	****	***
Terrain + Overwatch	*****	*****		*****	***	***	*****	****	***	***	****	****	****	***

<b>CHICKPEAS</b>														
Balance				****	****		****	****				****	****	**
Simazine	**		***			***	***	***		***	***	**	****	***
Balance + Simazine	**			****	****		*****	****				****	****	****
Terrain + Simazine	***	***	****	*****	****	***	*****	****	**	****	****	****	****	***

\*\* Limited activity  
 \*\*\* Good activity  
 \*\*\*\* Excellent activity  
 \*\*\*\*\* Robust control



# LUCERNE

- **Long term weed control**
  - Up to 16 weeks
  - Allows for earlier application
- **New mode of action**
  - Reduce the likelihood of resistance
- **Significant increase in lucerne feed quality**
- **Greater dollar return per hectare**
- **Compatible with a range of herbicides**
  - Greater flexibility in use patterns

Nufarm delivers the pinnacle in lucerne weed control with Nufarm Terrain Flow, a unique and versatile group 14 herbicide that is ideally suited for lucerne weed control, providing residual control or suppression of 17 hard to kill weeds.

Applied early, Nufarm Terrain Flow® delivers excellent, economical residual weed control of a range of broadleaf and grass weeds including annual ryegrass, flaxleaf fleabane and sowthistle. Nufarm Terrain Flow is also suited for use as part of a herbicide resistance management strategy, providing an alternate mode of action.

For optimum efficacy with Nufarm Terrain Flow, soil coverage is critical. Application on bare earth, with a small amount of rainfall or irrigation to incorporate is required. Nufarm Terrain Flow should be applied in a tank mixture with either Shirquat® 250 or SpraySeed® to control weeds that have already emerged.

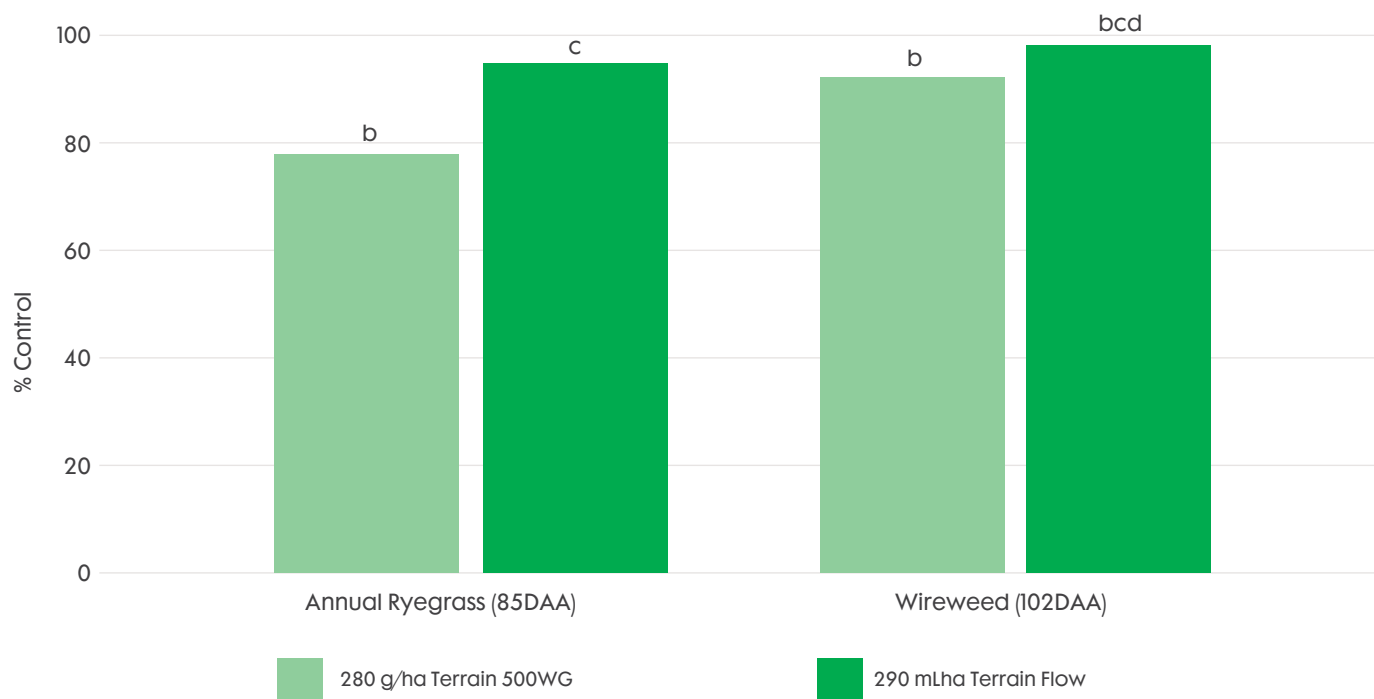
ESTABLISHED OPTIONS	RATE	KNOCKDOWN	2 WKS	4 WKS	8 WKS	12 WKS	16 WKS	SEEDLING LUCERNE	COMMENTS
Spinmaker	70 - 140 g/ha + Hasten	✓						y	Apply after 1st cut or heavy grazing in autumn/spring
Sprayseed + Diuron 900 WG	2.4 L/ha + 830 g/ha	✓						n	Industry standard - winter application when lucerne dormant
Sharpen	34 g/ha + Hasten	✓						n	Good option for seedling capeweed and fleabane control. Knockdown only.
Terrain + Sprayseed	290 mL/ha + 2.4 L/ha	✓						n	Extended residual control - autumn onwards application.

## LUCERNE – WEEDS INCLUDE SMALL FLOWERED MALLOW, STINGING NETTLE, BARLEY GRASS

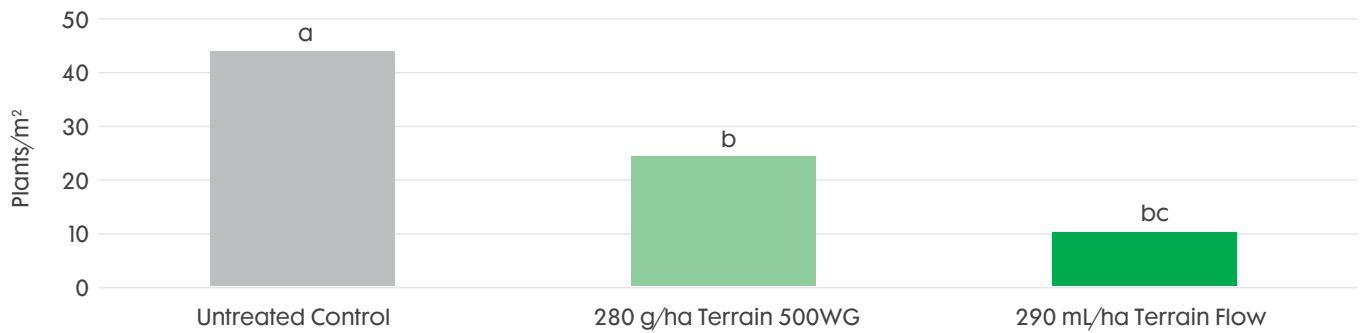


The improved formulation offers more reliable residual performance against grass and broadleaf weeds.

### % Weed Control in Lucerne - Strathalbyn, SA

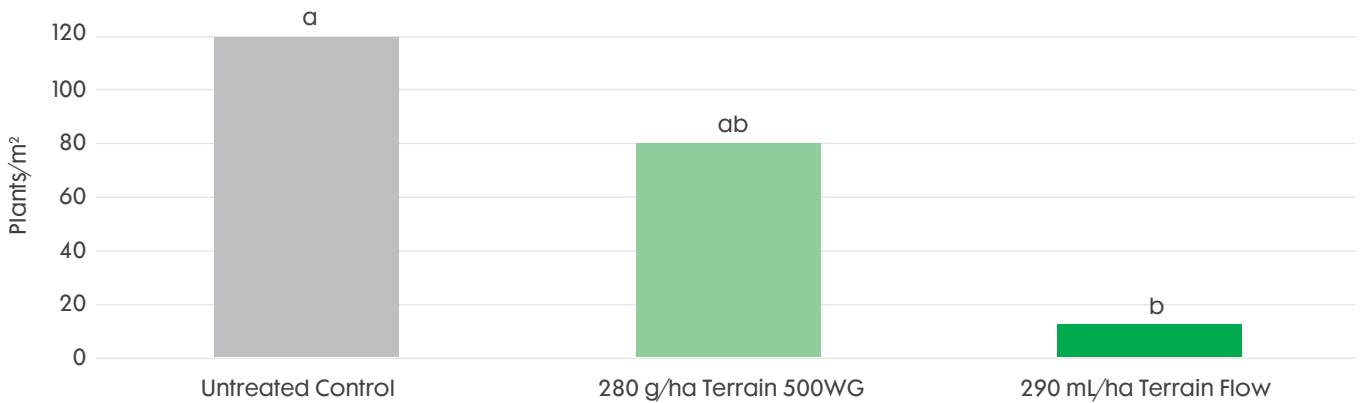


## Capeweed (75DAA)



Trial reference: NUV-18-21275502-H11

## Silvergrass (135DAA)



Trial reference: NUV-18-21275502-H11

	Annual Ryegrass	Bifora	Black Bindweed	Vol Canola	Capeweed	Flaxleaf fleabane	Indian Hedge mustard	Prickly lettuce	Three-horn Bedstraw	Toad rush	Wireweed	Wild radish	Sowthistle	Double gee
<b>LUCERNE</b>														
Spinner	**	***			**		****	**	***	****	***	***	**	***
Diuron	**				****		***			***		***	***	***
Terrain	****	***	***	****	***	***	***	****	***	***	****	***	****	***
Terrain + Diuron	****	***	****	****	*****	***	*****	*****	***	***	****	****	*****	****
Terrain + Spinner	****	****	****	*****	*****	****	*****	*****	*****	*****	*****	****	*****	****

\*\* Limited activity      \*\*\*\* Excellent activity  
 \*\*\* Good activity      \*\*\*\*\* Robust control



# CHEMISTRY CHARACTERISTICS

Nufarm Terrain Flow has low solubility and low soil mobility and does not leach easily or move freely out of the treated band of soil. These characteristics keep the herbicide in the zone for ideal weed control while still offering good crop safety.

	SOLUBILITY in water at 20 C (mg l <sup>-1</sup> )
Flumioxazin	0.8
Trifludimoxazon	1.8
Fomesafen	23
Saflufenacil	2100

	SOIL MOBILITY	
	K <sub>oc</sub> mg/g	Description
Saflufenacil	30	Mobile
Fomesafen	109	Mobile
Trifludimoxazon	570	Slight
Flumioxazin	890	Low
Oxyflurofen	7566	Immobile

Spray coverage becomes more important with less mobile products.  
Higher water rates can improve performance.

MOBILE	SOME MOBILITY	LOW MOBILITY	MODERATELY TIGHT BINDING	TIGHT BINDING
fomesafen (Reflex) mesotrione (Callisto) s-metolachlor Group 2 Group 4	atrazine bixlozone (Overwatch) cinmethylin (Luximax) pyroxasulfone (Sakura) simazine terbutylazine (Terbyne)	flumioxazin (Terrain) diuron propyzamide diflufenican	tri-allate (Avadex) prosulfocarb (Arcade) aclonifen (Mateno)	trifluralin pendimethalin

Impact of Rainfall to aid in movement  
If rainfall is delayed Binding may increase with time

Impact on performance of High stubble loads,  
Chaff lines or stubble lying flat

Nufarm Terrain Flow has an average DT50 of 18 and this combined with it's other characteristics make it ideal for residual control of weeds at application and for managing plantbacks to sensitive crops being grown in the following season.

#### MINIMUM PLANTBACK OR RECROPPING INTERVAL (MONTHS)

Crop Species	Nufarm Terrain Flow rate (mL/ha)		
	125	190	290
Wheat	0	1	2
Durum Wheat	1	1	3
Barley, Lupins, Oats, Triticale	1	2	3
Vetch	1	1	2
Lucerne (Seedling), Medic, Sub clover	3	4	6
Canola	9	9	9

15 - 25 mm of irrigation or rain is necessary, in addition to the plant back period, after application and before planting



## CONVERSION TABLE

### Nufarm Terrain 500 WG = Nufarm Terrain Flow

120 g/ha = 125 mL/ha

280 g/ha = 290 mL/ha

180 g/ha = 190 mL/ha

700 g/ha = 730 mL/ha

## COMPATIBILITY

### Nufarm Terrain Flow 30 mL/ha to 730 mL/ha

+ CRUCIAL	✓
+ weedmaster DST	✓
+ Nufarm Glyphosate 450	✓
+ 40 g/ha Terrad'or + 0.5% CanDo Adjuvant	✓
+ 1.25 L/ha Overwatch	✓
+ 118 g/ha Sakura	✓
+ 2.0 L/ha Rustler 500SC	✓
+ 1.2 kg/ha Terbutylazine 875WG	✓
+ 2.4 L/ha Triflur X + 3.2 L/ha Avadex Xtra	✓
+ 3.4 L/ha Nufarm Pendimethalin 440	✓
+ 2.4 L/ha Shirquat 250	✓
+ 0.83 kg/ha Diuron 900WG	✓
+ 0.5 L/ha Pyrinex Super	✓

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For more information, contact your local  
Nufarm Business Development Manager

[nufarm.com.au/product/terrain-flow](https://nufarm.com.au/product/terrain-flow)


**TERRAIN<sup>®</sup>  
FLOW**