Pre and post-emergent weed control trial

Specticle is a new pre-emergent herbicide in development containing the active ingredient indaziflam. This herbicide provides pre-emergent control of a range of grass and broad leaf weeds. In addition there is some post-emergent activity on wintergrass.

This trial was established to examine the effect of different application dates of Specticle on broad leaf weeds and wintergrass.

No	Chemical	Rate	Date
1	Untreated Control	-	-
2	Specticle	0.25L/ha	15/2/2012
3	Specticle	0.25L/ha	11/5/2012
4	Specticle	0.25L/ha	17/7/2012

Water Rate: 395 L/ha and the watered into the soil

The results in the table on the following page show that Specticle applied pre-emergently (February) provides good control of wintergrass and some broadleaf weeds.

In addition applications made after wintergrass emergence (May and July applications) provide some level of wintergrass control. These applications failed to provide control of some broadleaf weeds (clover and bindie) which had already emerged.

	% Weed Control		
	Specticle Feb 2012	Specticle May 2012	Specticle July 2012
Wintergrass 	92%	72%	64%
Bindie 	85%	19%	15%
Cotula 	69%	13%	13%
Clover 	100%	5%	10%
Fleabane 	76%	74%	62%
Oxalis 	71%	29%	33%

Ryegrass Control trial

Numerous sulphonyl urea herbicides are registered for the control of ryegrass in warm season turf. Previous research had shown that there was a synergy when a relatively small amount of Destiny (iodosulfuron) is added to Tribute (foramsulfuron). This resulted in faster and improved ryegrass control.

This trial was established to compare different sulphonyl urea herbicide treatments on the removal of ryegrass from couch grass.

Treatments

No	Chemical	Rate	Date
1	Untreated Control	-	-
2	Tribute	1.5L/ha	20/7/2012
3	Destiny + NIS	150g/ha	20/7/2012
4	Tribute + Destiny + NIS	1.5L/ha 25g/ha	20/7/2012
5	Destiny + Tribute + NIS	150g/ha 0.5L/ha	20/7/2012
6	Tribute + AMS + Hasten	1.5L/ha	20/7/2012
7	Monument + NIS	30g/ha	20/7/2012

Water rate: 395L/ha NIS = Non-ionic surfactant at 0.25%v/v AMS = Ammonium sulphate at 3kg/ha Hasten at 1% v/v

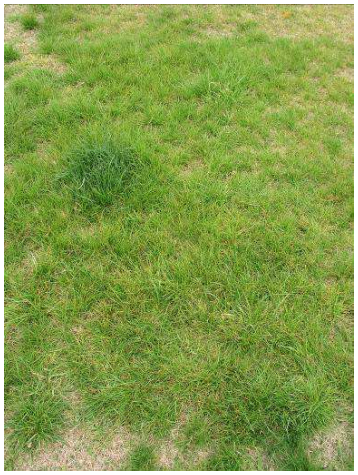
The results show that a combination of Destiny at the full rate of 150g and a low rate of Tribute (0.5L) gave the fastest and best ryegrass control.

The use ammonium sulphate and Hasten in the USA has been used to improve weed control of sulphonyl urea herbicides in cold temperatures. In this trial these additives did not improve ryegrass when used with Tribute.

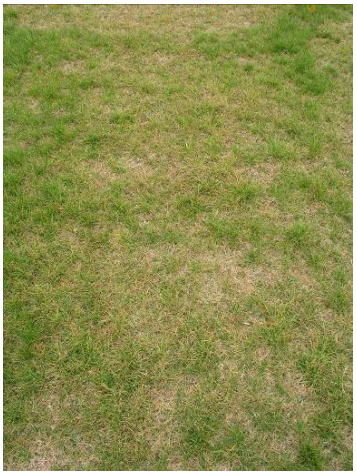
Bayer Field Day 2012 – Update 1

Ryegrass Control 18th September 2012

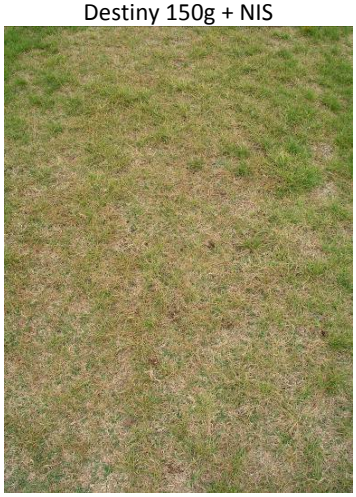
Untreated Control



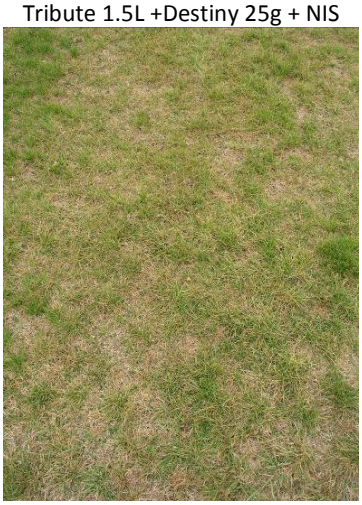
Tribute 1.5L



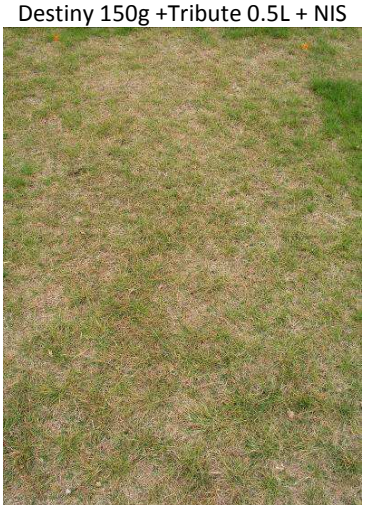
Destiny 150g + NIS



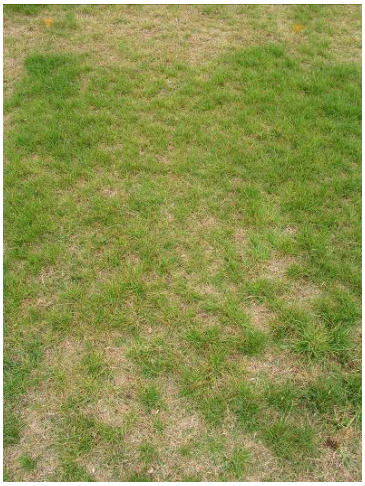
Tribute 1.5L +Destiny 25g + NIS



Destiny 150g +Tribute 0.5L + NIS



Tribute 1.5L + AMS + Hasten



Monument 30g + NIS