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Pre-emergent Trial

- Trials indicate that good pre-emergent iceplant control was achieved with Stomp[®] at 2 L/ha, diuron at 1 L/ha and Goal[®] at 200 ml/ha. Goal needs to be trialed further at higher rates.
- Broadstrike[®] also appeared to have good pre-emergent activity at the Morawa site, which was consistent with results achieved in 2006, where treatments containing 25g Broadstrike[®] gave 81-99% control.
- Slender iceplant stubble heavily shaded the soil at the Buntine site. With little growing season rainfall, this may be the reason why Broadstrike[®] had poor activity in Buntine.
- The Stomp[®] and Goal[®] treatments were particularly interesting as a number of medics had germinated through them.
- It seems that iceplant control should focus on pre-emergent options, as there are a number of germinations throughout the season.

RESULTS

Table 2: Percentage slender iceplant control, visually rated on 19/10/2007, for a range of post-emergent treatments.

Group	Post-emergent Herbicide Treatments	Morawa (% Iceplant kill)	Perenjori (% Iceplant kill)	Cost (\$/ha) GST exc.
D	2L Pendimethalin (330 g/L) (Stomp [®])	0	0	13.00
D	1L Pendimethalin (330 g/L) (Stomp [®])	0	0	6.50
C	1L Diuron (500 g/L)	12	10	8.60
C	500ml Diuron (500 g/L)	3	3	4.33
C/B	250ml Diuron +25g Flumetsulam (Broadstrike [®])	31	11	18.96
B	25g Flumetsulam (800 g/kg) (Broadstrike [®])	21	0	16.80
C	800ml Terbutryn (500 g/L) (Igran [®])	48	12	17.60
C	400ml Terbutryn (500 g/L) (Igran [®])	7	0	8.80
G	500ml Oxyfluorfen (240 g/L) (Goal [®])	2	10	16.50
G	250ml Oxyfluorfen (240 g/L) (Goal [®])	0	0	8.25
B	7g Metosulam (714 g/kg) (Eclipse [®])	0	0	8.33

Post-emergent Trial

- Generally all of the post-emergent treatments performed poorly on slender iceplant in 2007.
- Both trial sites were hot and dry at the time of spraying and only received 10mm rainfall, 2 months after spraying.
- Post-emergent treatments including Igran[®] at 800 mL/ha and diuron at 1 L/ha performed best, however both are likely to perform better in moist conditions. These treatments killed small iceplants, but only burnt the top leaves of larger plants causing some reduction in biomass.
- Broadstrike[®] appeared to turn the iceplant leaves a yellow and red colour, suppressing further growth. Due to the dry conditions it is not known if Broadstrike[®] would have enough activity for post-emergent use.

Herbicide Use in Saltland Pastures

- There are no herbicides registered for use in saltbush, bluebush or other saltland pastures.
- It is important to know the herbicide tolerance of saltbush and bluebush before attempting to control slender iceplant in these situations.
- Dicamba, 2,4-D amine, diuron, atrazine and Igran[®], are known to cause severe damage to bluebush. **(See article on “Herbicide Tolerance of Saltland Pastures”)**
- Stomp[®], Goal[®] and Broadstrike[®] appear to be most useful when controlling slender iceplant before it emerges and may allow for volunteer regeneration of legume and grass pastures. These options may have some use in saltland systems, however more work is required.

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