

**Disclaimer:**

This document is based on the results from an individual trial and may contain experimental use patterns that are currently off-label. **This document does not provide any interpretation and should not be taken as an endorsement of any unregistered use pattern.**

Professional advice should be sought for specific recommendations to ensure access to the most up to date information and knowledge.

**Any product referred to in this document must be used strictly as directed, and in accordance with all label or permit instructions. Always consult the label prior to use.**

## Mungbean Herbicide Safety Screen

|                         |                                       |                         |
|-------------------------|---------------------------------------|-------------------------|
| Trial ID: <b>AM1117</b> | Location: <b>Colly Blue</b>           | Trial Year: <b>2011</b> |
|                         | Investigator: <b>Anthony Mitchell</b> |                         |

|                            |                                                   |
|----------------------------|---------------------------------------------------|
| Objective:                 | To screen herbicides for crop safety in Mungbeans |
| Crop:                      | Mungbean cv. Crystal                              |
| Planted:                   | 16/12/2011                                        |
| PSPE Application:          | 17/12/2011                                        |
| Post-Emergent Application: | 10/01/2012 (3 Leaf stage)                         |
| Volume:                    | 70 L/ha                                           |

| Trt No. | Treatment | Rate<br>ml or g/ha | Timing  | Mungbeans                  |                          |                       |
|---------|-----------|--------------------|---------|----------------------------|--------------------------|-----------------------|
|         |           |                    |         | 13/02/2012<br>59 DAP       |                          | 30/03/2012<br>105 DAP |
|         |           |                    |         | Chlorosis<br>(Scale: 0-5)* | Height<br>(Scale: 1-5)** | Yield<br>t/ha         |
| 1       | Untreated | -                  | -       | 0.3 d                      | 5.0 a                    | 0.92                  |
| 2       | Spinnaker | 140                | PSPE    | 3.5 a                      | 3.0 c                    | 0.86                  |
| 3       | Gp C T    | 700                | PSPE    | 1.5 b                      | 5.0 a                    | 0.95                  |
| 4       | Gp C T    | 1000               | PSPE    | 0.8 cd                     | 5.0 a                    | 0.96                  |
| 5       | Gp C G    | 2200               | PSPE    | 0.5 cd                     | 5.0 a                    | 0.94                  |
| 6       | Gp B F    | 150                | PSPE    | 3.5 a                      | 2.5 d                    | 0.82                  |
| 7       | Gp K D    | 1500               | PSPE    | 0.8 cd                     | 5.0 a                    | 0.95                  |
| 8       | Gp JK B   | 2500               | PSPE    | 1.0 bc                     | 4.8 ab                   | 0.95                  |
| 9       | Gp C S    | 750                | PSPE    | 0.3 d                      | 5.0 a                    | 0.86                  |
| 10      | Blazer    | 1000               | Post-em | 0.5 cd                     | 5.0 a                    | 1.03                  |
| 11      | Gp B R    | 50                 | Post-em | 0.3 d                      | 4.5 b                    | 0.92                  |
| P =     |           |                    |         | 0.00                       | 0.00                     | 0.22                  |
| LSD =   |           |                    |         | 0.6                        | 0.4                      | nsd                   |
| CV =    |           |                    |         |                            |                          | 10.4                  |

DAP = Days after Planting

\* 0 = no effect (Untreated), 3 = obvious chlorosis but scattered in plots 5 = entire plot bright yellow

\*\* 1 = <25cm, 2 = 25-30cm, 3 = ~35cm, 4 = ~40cm, 5 = >50 cm

NB: Gp B options as PSPE caused significant levels of chlorosis and stunting. However no yield impact from any herbicide in this situation.