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## Residual Grass control in chickpea 2014

Trial ID: LB1406 Location: Fairy Meadow Trial Year: 2014  
Protocol ID: NGA1403 Investigator: Linda Bailey

|                     |                                 |          |
|---------------------|---------------------------------|----------|
| Planting Date:      | 6/06/2014                       |          |
| Planting Equipment: | Commercial Disc Planter         |          |
| Row Spacing:        | 100cm                           |          |
| Application Code:   | A                               | B        |
| Application Date:   | 29/5/2014                       | 6/6/2014 |
| Application Timing: | Pre-plant<br>(Delayed planting) | PSPE     |

| Pest Name:                         |                       |              |              |              |             | Chickpea<br>PBA HatTrick | Wild Oats        | Sowthistle               | Brassica sp.    |
|------------------------------------|-----------------------|--------------|--------------|--------------|-------------|--------------------------|------------------|--------------------------|-----------------|
| Pest Scientific Name:              |                       |              |              |              |             |                          | <i>Avena spp</i> | <i>Sonchus oleraceus</i> |                 |
| Crop Name:                         |                       |              |              |              |             |                          |                  |                          |                 |
| Crop Variety:                      |                       |              |              |              |             |                          |                  |                          |                 |
| Rating Date:                       |                       |              |              |              |             |                          | 23/06/2014       | 04/09/2014               | 04/09/2014      |
| Rating Type:                       |                       |              |              |              |             |                          | EMERGE           | COUNT                    | COUNT           |
| Rating Unit:                       |                       |              |              |              |             |                          | /m <sup>2</sup>  | /m <sup>2</sup>          | /m <sup>2</sup> |
| Crop Stage Majority:               |                       |              |              |              |             |                          | 14               |                          |                 |
| Days After First/Last Application: |                       |              |              |              |             |                          | 25 17            | 98 90                    | 98 90           |
| Plant-Evaluation Interval:         |                       |              |              |              |             |                          | 17 DP-1          | 90 DP-1                  | 90 DP-1         |
| ARM Action Codes:                  |                       |              |              |              |             |                          | AA               | AA                       | AA              |
| Trt No.                            | Herbicide Treatment   | Product Rate | Active Rate  | Growth Stage | Appln. Code | 1                        | 2                | 3                        | 4               |
| 1                                  | Untreated             | -            | -            | -            | -           | 18.6 -                   | 0.0 -            | 0.6 a                    | 0.2 b           |
|                                    | Untreated             | -            | -            | -            | -           |                          |                  |                          |                 |
| 2                                  | Untreated             | -            | -            | -            | -           | 19.7 -                   | 0.0 -            | 0.1 cde                  | 0.0 d           |
|                                    | Balance 750 WG        | 100 g/ha     | 75 g ai/ha   | PSPE         | B           |                          |                  |                          |                 |
| 3                                  | Sakura 850 WG         | 118 g/ha     | 100 g ai/ha  | PREPLA       | A           | 19.7 -                   | 0.0 -            | 0.4 ab                   | 0.0 cd          |
|                                    | Untreated             | -            | -            | -            | -           |                          |                  |                          |                 |
| 4                                  | Sakura 850 WG         | 118 g/ha     | 100 g ai/ha  | PREPLA       | A           | 20.2 -                   | 0.0 -            | 0.0 de                   | 0.0 d           |
|                                    | Balance 750 WG        | 100 g/ha     | 75 g ai/ha   | PSPE         | B           |                          |                  |                          |                 |
| 5                                  | Outlook               | 1000 ml/ha   | 720 g ai/ha  | PREPLA       | A           | 18.1 -                   | 0.0 -            | 0.0 de                   | 0.0 cd          |
|                                    | Untreated             | -            | -            | -            | -           |                          |                  |                          |                 |
| 6                                  | Outlook               | 1000 ml/ha   | 720 g ai/ha  | PREPLA       | A           | 19.2 -                   | 0.0 -            | 0.0 de                   | 0.0 d           |
|                                    | Balance 750 WG        | 100 g/ha     | 75 g ai/ha   | PSPE         | B           |                          |                  |                          |                 |
| 7                                  | Boxer Gold            | 2500 ml/ha   | 2300 g ai/ha | PREPLA       | A           | 20.6 -                   | 0.0 -            | 0.1 cd                   | 0.2 bc          |
|                                    | Untreated             | -            | -            | -            | -           |                          |                  |                          |                 |
| 8                                  | Boxer Gold            | 2500 ml/ha   | 2300 g ai/ha | PREPLA       | A           | 20.4 -                   | 0.0 -            | 0.0 e                    | 0.0 d           |
|                                    | Balance 750 WG        | 100 g/ha     | 75 g ai/ha   | PSPE         | B           |                          |                  |                          |                 |
| 9                                  | Avadex Xtend          | 1300 ml/ha   | 780 g ai/ha  | PREPLA       | A           | 20.5 -                   | 0.0 -            | 0.6 a                    | 0.3 ab          |
|                                    | Untreated             | -            | -            | -            | -           |                          |                  |                          |                 |
| 10                                 | Avadex Xtend          | 1300 ml/ha   | 780 g ai/ha  | PREPLA       | A           | 19.7 -                   | 0.0 -            | 0.0 de                   | 0.0 d           |
|                                    | Balance 750 WG        | 100 g/ha     | 75 g ai/ha   | PSPE         | B           |                          |                  |                          |                 |
| 11                                 | Triflurx              | 1700 ml/ha   | 820 g ai/ha  | PREPLA       | A           | 20.8 -                   | 0.0 -            | 0.4 ab                   | 0.3 ab          |
|                                    | Untreated             | -            | -            | -            | -           |                          |                  |                          |                 |
| 12                                 | Triflurx              | 1700 ml/ha   | 820 g ai/ha  | PREPLA       | A           | 21.0 -                   | 0.0 -            | 0.0 de                   | 0.0 d           |
|                                    | Balance 750 WG        | 100 g/ha     | 75 g ai/ha   | PSPE         | B           |                          |                  |                          |                 |
| 13                                 | Triflurx              | 1500 ml/ha   | 720 g ai/ha  | PREPLA       | A           | 20.6 -                   | 0.0 -            | 0.2 bc                   | 0.6 a           |
|                                    | Avadex Xtend          | 1300 ml/ha   | 780 g ai/ha  | PREPLA       | A           |                          |                  |                          |                 |
|                                    | Untreated             | -            | -            | -            | -           |                          |                  |                          |                 |
| 14                                 | Triflurx              | 1500 ml/ha   | 720 g ai/ha  | PREPLA       | A           | 19.6 -                   | 0.1 -            | 0.0 de                   | 0.0 cd          |
|                                    | Avadex Xtend          | 1300 ml/ha   | 780 g ai/ha  | PREPLA       | A           |                          |                  |                          |                 |
|                                    | Balance 750 WG        | 100 g/ha     | 75 g ai/ha   | PSPE         | B           |                          |                  |                          |                 |
| 15                                 | Stomp 440             | 2250 ml/ha   | 990 g ai/ha  | PREPLA       | A           | 20.8 -                   | 0.0 -            | 0.1 cde                  | 0.4 ab          |
|                                    | Untreated             | -            | -            | -            | -           |                          |                  |                          |                 |
| 16                                 | Stomp 440             | 2250 ml/ha   | 990 g ai/ha  | PREPLA       | A           | 21.4 -                   | 0.0 -            | 0.0 e                    | 0.0 d           |
|                                    | Balance 750 WG        | 100 g/ha     | 75 g ai/ha   | PSPE         | B           |                          |                  |                          |                 |
| 17                                 | Farmoz Exp            | 1000 ml/ha   | 500 g ai/ha  | PREPLA       | A           | 18.7 -                   | 0.0 -            | 0.1 cde                  | 0.7 a           |
|                                    | Untreated             | -            | -            | -            | -           |                          |                  |                          |                 |
| 18                                 | Farmoz Exp            | 1000 ml/ha   | 500 g ai/ha  | PREPLA       | A           | 19.4 -                   | 0.1 -            | 0.0 e                    | 0.0 d           |
|                                    | Balance 750 WG        | 100 g/ha     | 75 g ai/ha   | PSPE         | B           |                          |                  |                          |                 |
| 19                                 | Terbyne Xtreme 875 WG | 860 g/ha     | 750 g ai/ha  | PREPLA       | A           | 21.6 -                   | 0.0 -            | 0.0 e                    | 0.0 d           |
|                                    | Avadex Xtend          | 1300 ml/ha   | 780 g ai/ha  | PREPLA       | A           |                          |                  |                          |                 |
|                                    | Untreated             | -            | -            | -            | -           |                          |                  |                          |                 |
| 20                                 | Terbyne Xtreme 875 WG | 860 g/ha     | 750 g ai/ha  | PREPLA       | A           | 19.9 -                   | 0.0 -            | 0.0 e                    | 0.0 d           |
|                                    | Avadex Xtend          | 1300 ml/ha   | 780 g ai/ha  | PREPLA       | A           |                          |                  |                          |                 |
|                                    | Balance 750 WG        | 100 g/ha     | 75 g ai/ha   | PSPE         | B           |                          |                  |                          |                 |
| LSD                                |                       |              |              |              |             | nsd                      | nsd              | 1.57t                    | 1.55t           |
| Treatment Prob.(F)                 |                       |              |              |              |             | 0.2836                   | 0.9353           | 0.0001                   | 0.0001          |

Means followed by same letter do not significantly differ ( $P \leq 0.05$ , LSD). t=Mean descriptions are reported in transformed data units, and are not de-transformed. Mean comparisons performed only when AOV Treatment P (F) is significant at mean comparison OSL.

|                                    |                                                                               |
|------------------------------------|-------------------------------------------------------------------------------|
| <u>Rating type</u>                 | <u>Crop Stage Majority</u>                                                    |
| EMERGE = emergence                 | 14 = 4 true leaves, leaf pairs or whorls unfolded                             |
| COUNT = count                      | <u>Plant-Evaluation Interval</u>                                              |
| <u>Rating Unit</u>                 | 17 DP-1 = 1 CIEAR Jun-6-2014      90 DP-1 = 1 CIEAR Jun-6-2014                |
| /m <sup>2</sup> = per square meter | <u>ARM Action Codes</u> - AA = Automatic arcsine square root % transformation |

| Application Description    |          |          |
|----------------------------|----------|----------|
|                            | A        | B        |
| Application Date:          | 29/5/14  | 6/6/14   |
| Application Start Time:    | 12:10 PM | 10:40 AM |
| Application Stop Time:     | 2:00 PM  | 10:50 AM |
| Application Method:        | SPRAY    | SPRAY    |
| Application Timing:        | PREPLA   | PSPE     |
| Applied By:                | L Bailey | L Bailey |
| Air Temperature, Unit:     | 27 C     | 20 C     |
| % Relative Humidity:       | 53       | 57       |
| Wind Velocity, Unit:       | 7 KPH    | 3 KPH    |
| Wind Direction:            | N        | N        |
| Dew Presence (Y/N):        | N no     | N no     |
| % Cloud Cover:             | 10       | 20       |
| Next Moisture Occurred On: | 3/6/14   | 14/6/14  |

| Application Equipment     |          |          |
|---------------------------|----------|----------|
|                           | A        | B        |
| Application Equipment:    | Quadbike | Quadbike |
| Equipment Type:           | SPRAYE   | SPRAYE   |
| Operation Pressure, Unit: | 300 kPa  | 300 kPa  |
| Nozzle Type:              | AIXR     | AIXR     |
| Nozzle Size:              | 110015   | 110015   |
| Nozzle Spacing, Unit:     | 50 cm    | 50 cm    |
| Boom Length, Unit:        | 4 m      | 4 m      |
| Boom Height, Unit:        | 0.5 m    | 0.5 m    |
| Ground Speed, Unit:       | 10.3 KPH | 10.3 KPH |
| Carrier:                  | WATER    | WATER    |
| Spray Volume, Unit:       | 70 L/ha  | 70 L/ha  |