# Problem Weed Control in Chickpeas 2016 – Spiny Emex

**Trial ID:** DK1612 **Location:** Daymar **Trial Year:** 2016
**Investigator:** Denielle Kilby

| | |
|---|---|
| **Crop Planted:** | **24/05/2016** |
| **Planter:** | **Commercial Tyne Planter** |
| **Row Spacing:** | **25cm** |
| **Application Date:** | **25/05/2016** |
| **Target/Stage:** | **Post Sowing, Pre-emergent** |

| **Crop Name** | | | **Chickpea** | | | |
|---|---|---|---|---|---|---|
| **Crop Variety** | | | **PBA HatTrick** | | | |
| **Pest Scientific Name** | | | | ***Emex australis*** | | |
| **Pest Name** | | | | **Spiny Emex** | | |
| **Assessment Date** | | | **17/06/2016** | **17/06/2016** | **9/07/2016** | **1/08/2016** |
| **Assessment Type** | | | **EMERGENCE** | **COUNT** | **COUNT** | **COUNT** |
| **Assessment Unit** | | | **/m²** | **/m²** | **/m²** | **/m²** |
| **Crop Stage Majority** | | | **12** | **12** | **16** | **21** |
| **Pest Stage Majority** | | | | **10** | **13** | **15** |
| **Treatment-Evaluation Interval** | | | **23 DAA** | **23 DAA** | **45 DAA** | **68 DAA** |
| **ARM Action Codes** | | | **T2** | **AS** | **AS** | **AL** |
| **Trt No.** | **Treatment** | **Product Rate** | | | | |
| 1 | Untreated | - | 48.0- | 21.1- | 29.1- | 26.7- |
| 2 | Balance | 50g/ha | 48.7- | 16.7- | 28.3- | 16.9- |
| 3 | Balance | 70g/ha | 50.3- | 15.3- | 15.7- | 17.6- |
| 4 | Balance | 100g/ha | 46.7- | 16.6- | 27.5- | 23.8- |
| 5 | Balance<br>Simagranz | 50g/ha<br>700g/ha | 42.0- | 10.8- | 11.2- | 6.2- |
| 6 | Simagranz | 700g/ha | 44.0- | 16.3- | 16.8- | 14.8- |
| 7 | Balance<br>Simagranz | 100g/ha<br>1000g/ha | 48.7- | 21.4- | 16.5- | 7.0- |
| 8 | Balance<br>Terbyne Xtreme | 50g/ha<br>700g/ha | 37.0- | 23.0- | 17.7- | 11.8- |
| 9 | Balance<br>Terbyne Xtreme | 100g/ha<br>700g/ha | 41.0- | 22.9- | 12.7- | 9.9- |
| 10 | Balance<br>Bladex | 100g/ha<br>1700ml/ha | 46.7- | 10.9- | 6.8- | 2.8- |
| 11 | Balance<br>Diurex WG | 100g/ha<br>830g/ha | 44.0- | 14.4- | 15.4- | 9.3- |
| 12 | Balance<br>Sakura | 100g/ha<br>118g/ha | 53.0- | 6.4- | 6.8- | 8.7- |
| 13 | Balance<br>Outlook | 100g/ha<br>1000ml/ha | 44.7- | 6.0- | 5.2- | 5.0- |
| 14 | Balance<br>Gp D S | 100g/ha<br>2176ml/ha | 45.0- | 16.4- | 15.0- | 4.0- |
| 15 | Balance<br>Simagranz<br>Gp B S | 100g/ha<br>800g/ha<br>20g/ha | 44.3- | 15.5- | 13.8- | 7.6- |
| | | LSD P= | nsd | nsd | nsd | nsd |
| | | Treatment Prob.(F)= | 0.8222 | 0.9329 | 0.7442 | 0.2972 |

Means followed by same letter do not significantly differ (P=.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.
nsd = No significant difference

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Crop Stage Majority
12 = 2 true leaves, leaf pairs or whorls unfolded
16 = 6 true leaves, leaf pairs or whorls unfolded
21 = First side shoot visible
Pest Stage Majority
10 = First true leaf emerged from coleoptile; Cotyledons completely unfolded
13 = 3 true leaves, leaf pairs or whorls unfolded
15 = 5 true leaves, leaf pairs or whorls unfolded
ARM Action Codes
AS = Automatic square root transformation of X+0.5
AL = Automatic log transformation of X+1
T2 = [1]/4/0.25

DAA = Days after Application

| Application Description | |
|---|---|
| **Application Date:** | **25/05/2016** |
| **Application Start Time:** | **10:00 AM** |
| **Application Stop Time:** | **11:30 AM** |
| **Application Method:** | **SPRAY** |
| **Application Timing:** | **PSPE** |
| **Air Temperature, Unit:** | **18 C** |
| **% Relative Humidity:** | **39** |
| **Wind Velocity, Unit:** | **0.9 m/s** |
| **Wind Direction:** | **WSW** |
| **Dew Presence (Y/N):** | **No** |
| **Soil Moisture:** | **FAIR** |
| **% Cloud Cover:** | **30** |
| **Next Moisture Occurred On:** | **27/05/2016** |
| **Time to Next Moisture, Unit:** | **2 DAY** |

| Application Equipment | |
|---|---|
| **Application Equipment:** | **Quad Bike** |
| **Equipment Type:** | **BOOM SPRAY** |
| **Operation Pressure, Unit:** | **300 kPa** |
| **Nozzle Type:** | **AIXR** |
| **Nozzle Size:** | **110015** |
| **Nozzle Spacing, Unit:** | **50cm** |
| **Nozzles/Row:** | **4** |
| **Boom Length, Unit:** | **4 m** |
| **Boom Height, Unit:** | **50 cm** |
| **Ground Speed, Unit:** | **10.3 km/h** |
| **Spray Volume, Unit:** | **70 L/ha** |