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## Nutrition Management in Mungbean

**Trial ID:** AM1621      **Location:** Mullaley      **Trial Year:** 2017  
**Investigator:** Anthony Mitchell

|  |  |
|--|--|
| <b>Objectives:</b>   | To determine the effects of N and S applications on growth and yield of Mungbean   |
| <b>Planting Date:</b>  | 1/02/2017  |
| <b>Plant Stand Target:</b>   | 25 plants/m <sup>2</sup>   |
| <b>Row Spacing:</b>  | 100 cm   |
| <b>Application:</b>  | Fertiliser treatments applied on surface and incorporated by planting<br>Treatments inoculated with rhizobia - Inoculation Rate = 120g in 200L @200L/ha, Group I Nodual NT |
| <b>Planting Equipment:</b>   | Small Plot Planter - Tyne  |
| <b>Harvest Date:</b>   | 14/05/2017   |
| <b>Trial Reliability:</b>  | Marginal   |
| <b>Keywords:</b>   | Mungbean, nutrition  |
| NB: Trial site experienced very dry conditions with no fertiliser response |  |

Emergence issues observed from Starter application in other trials conducted in summer 2016/17. All Starter application removed from this trial immediately prior to planting. This resulted in the large number of "Untreated" treatments (no fertiliser added).

| Crop Name<br>Crop Variety<br>Assessment Date<br>Assessment Type<br>Assessment Unit<br>Crop Stage Majority<br>Treatment-Evaluation Interval<br>ARM Action Codes |                            |                    |                    |                | Mungbean<br>Jade AU  |  |
|--|----------------------------|--------------------|--------------------|----------------|--|--|
|  |                            |                    |                    |                | 8/02/2017<br>EMERGENCE<br>/m <sup>2</sup><br>12<br>7 DP1<br>T1 | 14/05/2017<br>YIELD<br>t/ha<br>102 DP1<br>T2 |
| Trt No.  | Treatment                  | N Added<br>kg N/ha | S Added<br>kg S/ha | Rhizobia       |  |  |
| 1  | Untreated                  | -                  | -                  | Inoculated     | 13-  | 0.90-  |
| 2  | Untreated                  | -                  | -                  | Not Inoculated | 11-  | 0.84-  |
| 3  | Untreated                  | -                  | -                  | Inoculated     | 11-  | 0.79-  |
| 4  | Urea                       | 41kg N/ha          | -                  | Inoculated     | 14-  | 0.90-  |
| 5  | Urea                       | 91kg N/ha          | -                  | Inoculated     | 12-  | 0.90-  |
| 6  | Untreated                  | -                  | -                  | Inoculated     | 14-  | 0.90-  |
| 7  | Urea                       | 41kg N/ha          | -                  | Inoculated     | 13-  | 0.85-  |
| 8  | Urea                       | 91kg N/ha          | -                  | Inoculated     | 14-  | 0.89-  |
| 9  | Urea                       | 91kg N/ha          | -                  | Not Inoculated | 12-  | 0.84-  |
| 10   | Untreated                  | -                  | -                  | Inoculated     | 12-  | 0.88-  |
| 11   | Urea                       | 41kg N/ha          | -                  | Inoculated     | 14-  | 0.92-  |
| 12   | Urea                       | 91kg N/ha          | -                  | Inoculated     | 13-  | 0.84-  |
| 13   | Urea                       | 91kg N/ha          | -                  | Not Inoculated | 11-  | 0.83-  |
| 14   | Sulphate of Ammonia        | 8kg N/ha           | 9kg S/ha           | Inoculated     | 13-  | 0.90-  |
| 15   | Urea + Sulphate of Ammonia | 41kg N/ha          | 9kg S/ha           | Inoculated     | 15-  | 0.85-  |
| 16   | Urea + Sulphate of Ammonia | 41kg N/ha          | 9kg S/ha           | Inoculated     | 13-  | 0.79-  |
| 17   | Urea + Sulphate of Ammonia | 91kg N/ha          | 9kg S/ha           | Inoculated     | 11-  | 0.84-  |
| 18   | Urea + Sulphate of Ammonia | 91kg N/ha          | 9kg S/ha           | Inoculated     | 12-  | 0.89-  |
| LSD P=   |                            |                    |                    |                | NSD  | NSD  |
| CV=  |                            |                    |                    |                |  | 11.7   |
| Treatment Prob.(F)=  |                            |                    |                    |                | 0.3121   | 0.8994                                       |

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P (F) is significant at mean comparison OSL.

Missing data estimates are included in columns: Average=4

NSD = No significant difference

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### ARM Action Codes

T1 = [C1]/2

T2 = [3]/1000

DP1 = Days after Planting

| Application Description |            |
|-------------------------|------------|
| Application Date:       | 31/01/2017 |
| Application Start Time: | 10:00 AM   |
| Application Stop Time:  | 11:30 AM   |
| Application Method:     | SPREAD     |
| Application Timing:     | DECEMBER   |
| Application Placement:  | INCORPN.   |
| Soil Moisture:          | SLIDRY     |