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# DEEP PLACEMENT OF MANGANESE FOR LUPINS

87E44/5523 EX

Aim: To determine the effect of deep placement of manganese and foliar applied manganese on lupin plant tissue levels, split seed incidence and grain yield.

Location: Esperance Downs Research Station

Soil: Deep sand

Sown: June 2, 1987

Harvested: December 12, 1987

Basals: Danja 90 kg/ha  
Super 125 kg/ha

Table 94. Effect of manganese and ripping on dry matter production and grain yield

TRs	Grain yield (kg/ha)	Dry matter production at	
		28/8/87	23/9/87
1. RIP (5) Mnsol (0)	1,251	2,390	4,472
2. RIP (5) Mnsol (21.7)	2,310	2,362	4,427
3. RIP (5) Mnsol (43.4)	2,439	2,265	4,499
4. RIP (20) Mnsol (0)	1,295	2,631	5,301
5. RIP (20) Mnsol (21.7)	2,697	2,778	5,343
6. RIP (20) Mnsol (43.4)	3,011	2,788	5,332
7. RIP (30) Mnsol (0)	1,540	3,078	5,814
8. RIP (30) Mnsol (21.7)	2,933	3,056	5,659
9. RIP (30) Mnsol (43.4)	3,007	3,226	5,774
10. RIP (30) MnSO <sub>4</sub> (15) dr	2,677	3,117	5,694
11. RIP (30) Mnsol (43.4) MnSO <sub>4</sub> (15) d	3,060	3,103	5,780
12. RIP (-) Mn (0) Mnsol (5.73) SPRAY	2,492	2,305	4,423
13. RIP (-) MnSO <sub>4</sub> (15) Mnsol (5.73) SP	2,544	2,420	4,589
14. RIP (-) Mn (15)	2,421	2,410	4,523
15. RIP (-) Mn (30)	2,508	2,422	4,624

Ripping response due to Rhizoctonia control.