

Results from **LIG-ZINC + Mn Vs zinc sulphate trial at Paringa, SA**

SUMMARY

The third leaf of the most recent flush was taken and analyzed on 12/10/94 within rows which were treated with LIG-ZINC + Mn and zinc sulphate and manganese sulphate. Random rows were selected in three separate blocks. Both solutions were last applied on 20/04/94 on trees the same age and same root stock.

AIM

The purpose of the trial is to evaluate which zinc formulation best translocates to the new spring flush that has not come into direct contact with either zinc formulation.

SITE INFORMATION AND TREATMENTS

BLOCKS 5 & 8 – Valencia planted in 1963.

SOIL – Sand over limestone (pH 7.8) with severe zinc and manganese deficiencies.

IRRIGATION – Overhead sprinkler.

TREATMENTS

1. 12 rows treated with three applications of LIG-ZINC + Mn @ 4 L/Ha
2. 12 rows treated with three applications of zinc sulphate and manganese sulphate at 6.47 kg/Ha and 4.64 kg/Ha respectively.

Three applications at 20/10/93, 15/01/94 & 20/04/94.

BLOCK 1 – Valencia planted in 1961.

SOIL and IRRIGATION as above.

TREATMENTS

1. 12 rows treated with two applications of LIG-ZINC + Mn @ 4 L/Ha
2. 12 rows treated with two applications of zinc sulphate and manganese sulphate at 6.47 kg/Ha and 4.64 kg/Ha respectively.

Two applications at 25/10/93 & 20/04/94.

RESULTS

BLOCK	ZINC (ppm)	
	LIG ZINC + Mn	Zinc & Mn Sulphate
1	22	18
5	26	20
8	27	18

CONCLUSION

This trial indicates that LIG-ZINC + Mn is more efficient in translocation of zinc than zinc sulphate. This is despite the fact that **five times** more zinc was applied in the zinc sulphate treatment. It was also observed that the new flush growth was more advanced in the rows treated with LIG-ZINC + Mn than in the zinc sulphate rows. The sodium levels of the zinc sulphate rows were on average, 240 ppm higher than the rows treated with LIG-ZINC + Mn.

• SA/TAS/WA - 0408 633 661 • QLD/NT - 0439 520 744 • VIC/NSW – 0407 040 820

• Email: info@sjbagnutri.com.au • Technical support - 0407 040 820 • Fax: (03) 5862 1279 •

