

ZINC MICRONUTRIENT - SOYBEAN

TITLE – Soybean responses to various zinc micronutrient materials

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TRIAL OBJECTIVE – To examine the uptake of micronutrients to different micronutrient sources.

EXPERIMENTAL DESIGN –

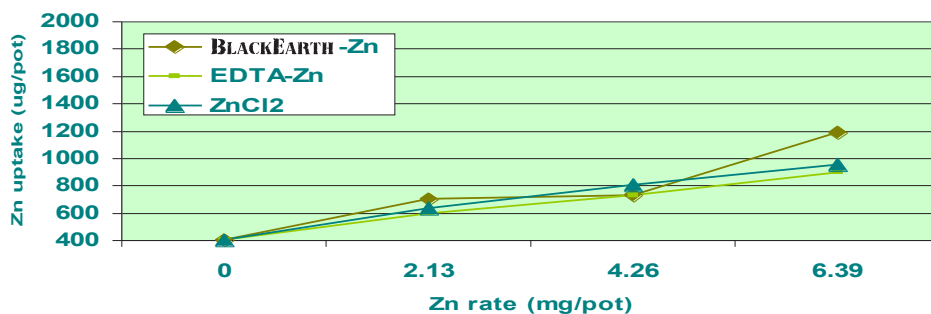
Crop	Soybean
Experimental Design	Randomized complete block design with 5 replicates
Growing condition	Mixture of vermiculite and silica sand (1:1 v/v), NPK added at 90, 85 and 85 kg/ha respectively. Plants watered with Hoagland solution (without zinc)
Micronutrient application	Applied at 22 days after sowing
Harvest	71 days after sowing

TREATMENTS –

	PRODUCT	Rate (mg/pot)
1	BLACK EARTH Chelated Zinc	0, 2.13, 4.26, 6.39
2	EDTA Chelated Zinc	0, 2.13, 4.26, 6.39
3	Zinc chloride	0, 2.13, 4.26, 6.39

RESULTS AND DISCUSSIONS –

Whole Plant Zinc Uptake - Foliar Application



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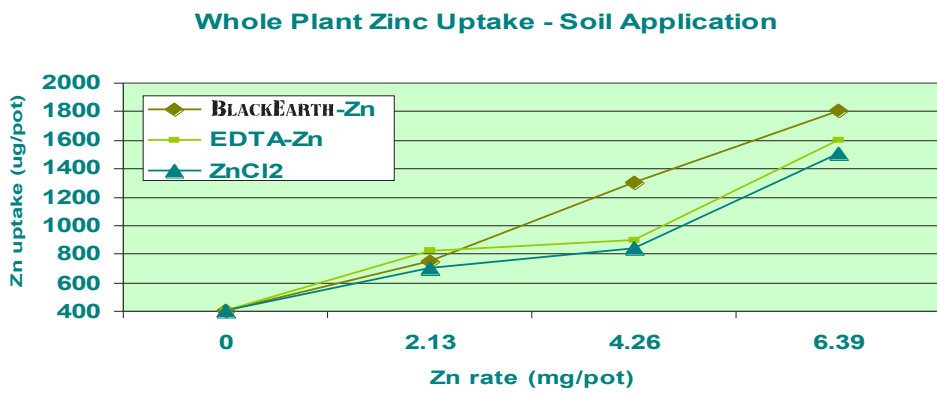
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RESULTS AND DISCUSSIONS –



BLACK EARTH chelated Zn showed the best uptake results over EDTA chelated Zn and zinc chloride, especially when applied on soil.

