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NATIONAL & INTERNATIONAL BIO-EFFICACY TRIALS OF PRATHISTA ORGANIC FERTILIZERS

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RESEARCH DATA OF BIO-ZINC

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Bio-Efficacy Trails of
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Efficacy Evaluation of Bio-Zinc as Soil Amendment / Nutrient Supplement for Low Land Rice *(Oryza sativa)*

Adoracion Torres-guy University Researcher, Soils And Agro Ecosystems Division
Agricultural Systems, Cluster College of Agriculture , **U.P. Los Banos,**
College Laguna, Philippines

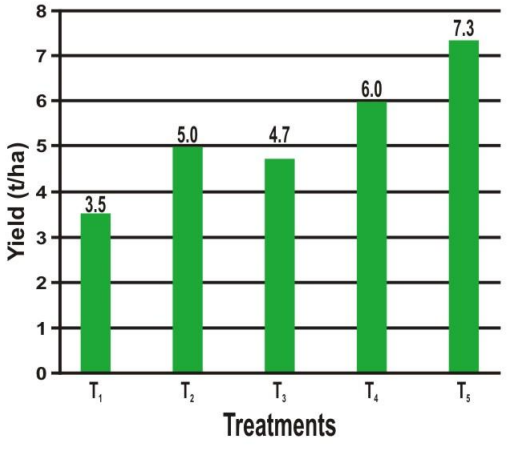
Objective : To assess the effectiveness of Bio-Zinc as a nutrient source for low land rice.

TREATMENTS

T_1	Control (no fertilizers)
T_2	Recommended dose of Conventional Fertilizer (90-60-60Kg/ha)
T_3	50% Recommended dose of conventional fertilizer
T_4	50% Recommended dose of conventional fertilizer + Recommended dose of Bio-Zinc (4ml / ltr.)
T_5	Recommended dose of Conventional Fertilizer + Recommended dose of Bio-Zinc (4ml / ltr.)

RESULTS

- Application of Bio-Zinc in combination with recommended dose of conventional fertilizer (T_5) resulted in higher tiller count, panicle count, grain yield over control.
- Combination of recommended dose of conventional fertilizer with recommended dose of Bio - Zinc (T_3) resulted in significantly higher grain yield (73 q/ha) compared to control (35 q/ha) indicative of the positive interaction between Bio-Zinc and conventional fertilizer.



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EVALUATION OF ORGANIC FERTILIZER BIO-ZINC ON RICE

(Oryza sativa)

ACHARYA N.G RANGA AGRICULTURAL UNIVERSITY, Regional Agricultural Research Station, Warangal, A.P Duration of the Study Kharif 2007 and 2008.

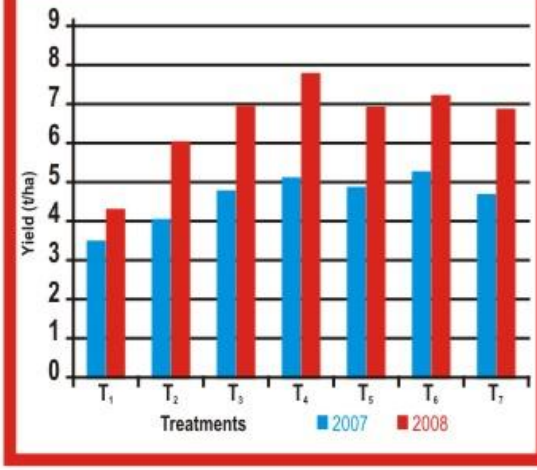
Objective : To study the bio efficacy of BIO-ZINC compared to other source of Zinc

TREATMENTS

T_1	Control (no fertilizers)
T_2	Recommended Dose of NPK (100:50:40 Kgs/ha)
T_3	RDF of NPK + 25 Kg / ha $ZnSo_4$ as Soil Application (SA)
T_4	RDF of NPK + 25 Kg / ha $ZnSo_4$ as SA + Foliar Spray of $ZnSo_4$ @ 3ml/Ltr. at 45 days after transplanting
T_5	RDF of NPK + 12.5Kg / ha Bio- Zinc as SA
T_6	RDF of NPK + 12.5Kg / ha Bio-Zinc as SA + Foliar Spray of Bio-Zinc @ 3ml / Ltr. at 45 days after transplanting
T_7	RDF of NPK + Foliar spray of Bio-Zinc @ 3ml/Ltr. at 30 and 60 days after transplanting (DAT)
RDF	100 : 50 : 40 Kg / ha of N, P, K

RESULTS

- The results of the trial conducted during both the years indicate that yield and other yield contributing parameters were significantly higher in all the zinc applied treatments either by soil application or spraying compared to control and recommended dose of fertilizer.
- The results thus indicate that application of Bio-Zinc as soil application or foliar spray or in their combination results in comparable / better yields compared to application of Inorganic source of Zinc ($ZnSo_4$).
- Number of effective tillers / m^2, no. of panicles / m^2, grains / panicle were also positively influenced by Bio-Zinc in conjunction with recommended dose of fertilizers.
- The yield increase over control may be due to direct contribution of nitrogen in terms of synthesis of chlorophyll, protein and amino acid and phosphorus by stimulating root system that directly helped for greater absorption and translocation of nutrients.



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STUDY ON THE EFFECT OF BIO-ZINC ON THE YIELD OF MAIZE

(Zea mays)

Tamilnadu Agricultural University, Coimbatore, Tamil Nadu Duration of the Study 2005 During Kharif Season

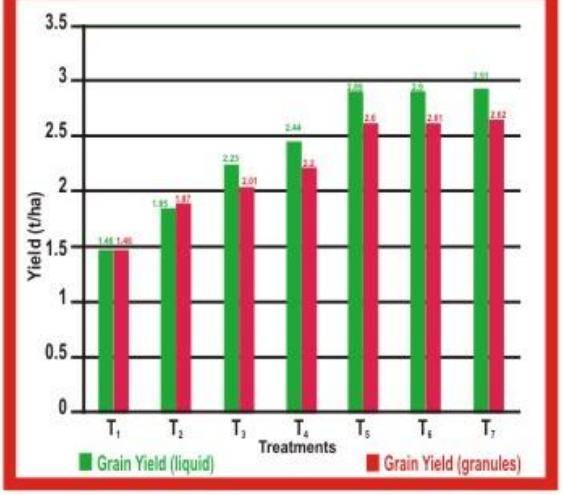
Objective : To assess the effectiveness of BIO-ZINC (Liquid & Granules) on Maize crop

TREATMENTS

Granules (kgs)		Liquid (ltrs)	
T_1	Control (no fertilizers)	T_1	Control (no fertilizers)
T_2	5 kg/ha of Bio-Zinc	T_2	0.10% Solution of Bio-Zinc
T_3	7.5kg/ha of Bio-Zinc	T_3	0.15% Solution of Bio-Zinc
T_4	10 kg/ha of Bio-Zinc	T_4	0.20% Solution of Bio-Zinc
T_5	12.5 kg/ha of Bio-Zinc	T_5	0.25% Solution of Bio-Zinc
T_6	15 kg/ha of Bio-Zinc	T_6	0.30% Solution of Bio-Zinc
T_7	20 kg/ha of Bio-Zinc	T_7	0.35% Solution of Bio-Zinc

RESULTS

- Application of Bio-Zinc as foliar spray at 0.25% resulted in increasing the grain yield (T_5 – 2.89 t/ha) compared to the yield of 1.46 t/ha achieved under control treatment (T_1).
- Similarly application of 12 kgs/ha of Bio-Zinc as soil application resulted in higher yields (T_5 – 2.60t/ha) compared to the yield of 1.40 t/ha achieved under control treatment (T_1).



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PATHOLOGICAL ANALYSIS, QUALITY VERIFICATION AND FIELD EVALUATION OF BIO-ZINC IN RICE

(Oryza sativa)

Dr. Herbert Talwana, Department of Crop Science,
Makerere University, Uganda

Objective : To assess the effectiveness of Bio-Zinc on Rice.

TREATMENTS

T_1 - Control	Control (no fertilizers)
T_2 - Prathista Protocol Package	Sprayed with BIO-ZINC (3ml / Ltr.)

RESULTS

- Vigorous growth with the foliage color changing from light green to dark green.
- An increase in height was observed 18.5 cm (T_2) over 15.7 cm (T_1)
- Application of Bio-Zinc has resulted in higher number of grains / panicle (T_2 - 195) & also grain yield (T_2 - 2.14 t/ha)compared to control (174 and 1.8 t/ha) respectively.