

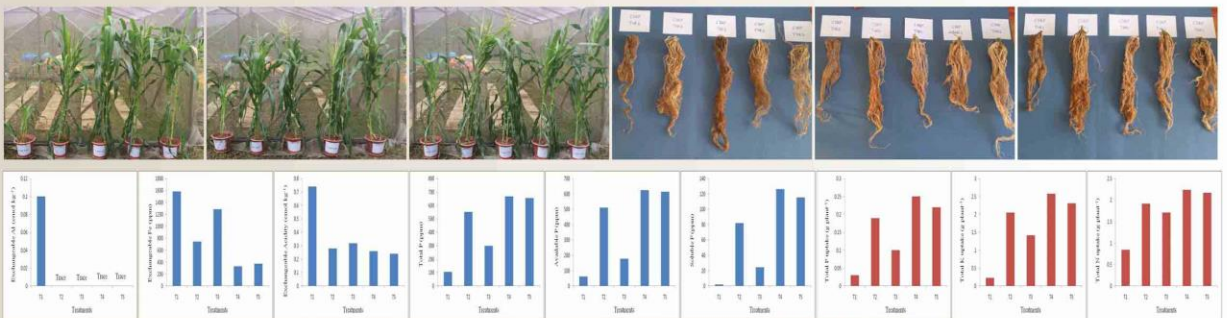
INVENTION



INTRODUCTION

Large amounts of fertilizers including phosphatic fertilizers are used because of phosphorus or calcium fixation in acid soils. We have produced an organic fertilizer from agricultural wastes that reverses phosphorus fixation and well as improves phosphorus uptake, crop yield, and soil quality.

APPLICATION



USEFULNESS

- Yield of 10 t/ha versus 8 t/ha
- Reduces tasseling and harvesting time by **10 days**
- Reduces P fertilizer and labour requirement
- Nearly neutral soil pH
- Reduces environmental pollution indirectly



BENEFITS

- Bumper harvest (**profit/100t = RM26,400**)
- 50% P fertilizer reduction (**profit/100t = RM29,700**)
- Improves soil quality (no Al & Fe toxicity)
- Environmentally friendly
- Green technology

POTENTIAL CONSUMERS

- Fertilizer industries
- Plantation and other related farmers
- Environmentalists
- Waste management agencies



Project Leader : Assoc. Prof. Dr. O.H. Ahmed
 Co. Researchers : H.Y. Ch'ng, Prof. Dato Dr. A.M. Nik Muhamad and Dr. K. Susilawati
 Faculty : Agriculture and Food Sciences
 Email : osumanu@upm.edu.my
 Tel : 012.690.2927 or 086.855.406
 Expertise : Soil Fertility and Management, Fertilizer Technology, Wastes Management and Utilization