



聯發生物科技股份有限公司
Advanced Green Biotechnology Inc.



Evaluation for efficacy of Fert P on growth of rice in Ping Tung, Taiwan

Advanced Green Biotechnology Inc.
Date : Jul. 07, 2008



健康的環境 健康的土壤 健康的作物 健康的人生

Healthy Environment,

Healthy Soil,

Healthy Crops,

Healthy Life



- **Date** : July 07, 2008 (1st time Applied Fert P)
- **Objective** : Evaluation for the efficacy of Fert P on growth of rice in Ping Tung, Taiwan
- **Seed species** : Tainan No.11 (120 days)
- **Test methods** :
 - Control field** : Original planting process without Fert P
 - Experimental field** : Applied Fert P twice
 - 1st time – Applied Fert P 5kgs/ha within 14 days after transplanting the rice seedling to the field.
 - 2nd time – Applied Fert P 5kgs/ha on/around the 60th day.
 - The other planting processes and chemical fertilizer application were maintained the same.
 - Applied $(\text{NH}_4)_2\text{SO}_4$ twice, 240kgs/ha.
 - Applied Taiwan Fertilizer No.4 (N-P-K=11-5.5-22) once, 240kgs/ha.
- **Method of field investigation** : Compare the rice yield between the control and experimental field.



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June 30, 2008 (Seedling)

Control



Mi Fert P





July 30, 2008 (23 days after used Fert P)

Control

Mi Fert P





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Aug. 07, 2008 (30 days after used Fert P)

Control



Mi Fert P





Aug. 07, 2008 (30 days after used Fert P)

Control



Mi Fert P





Sept. 05, 2008 (59 days after used Fert P)

Control



Mi Fert P





Sept. 05, 2008 (59 days after used Fert P)

Control (length of rice ear : 20cm)

Mi Fert P (length of rice ear : 25cm)





Sept. 22, 2008 (76 days after used Fert P)

Control

Mi Fert P





Sept. 22, 2008 (76 days after used Fert P)

Control

Mi Fert P





Oct. 04, 2008 (88 days after used Fert P)

Harvest





Comparison of the growth of rice





Comparison of the rice ear length

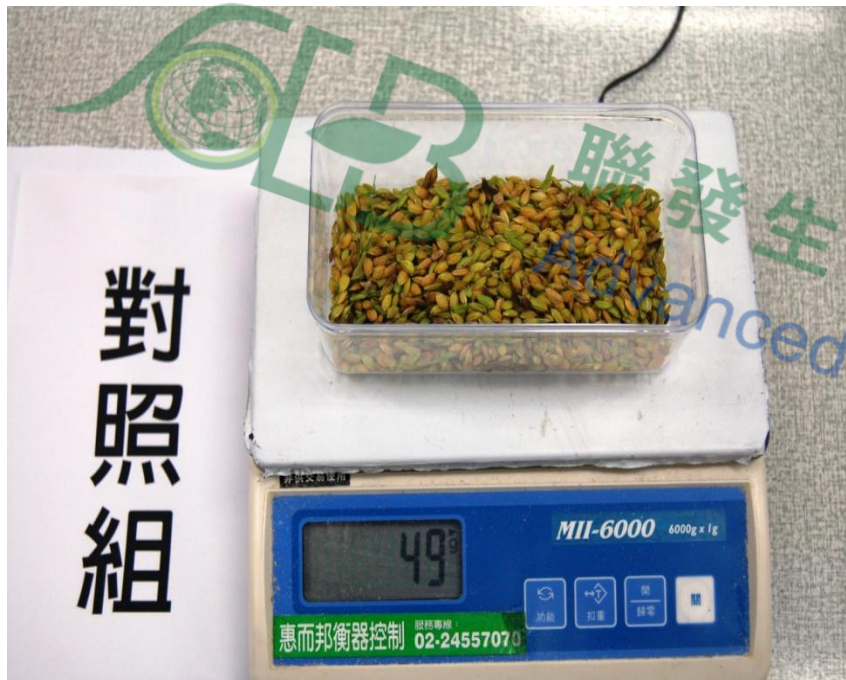
Control

MiFert P

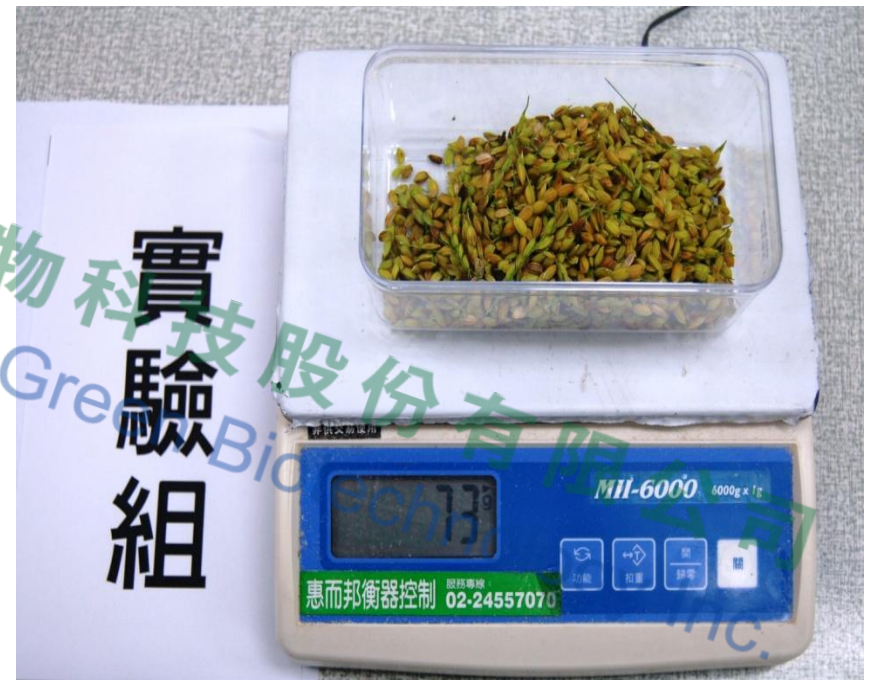




Comparison of grains weight per rice ear



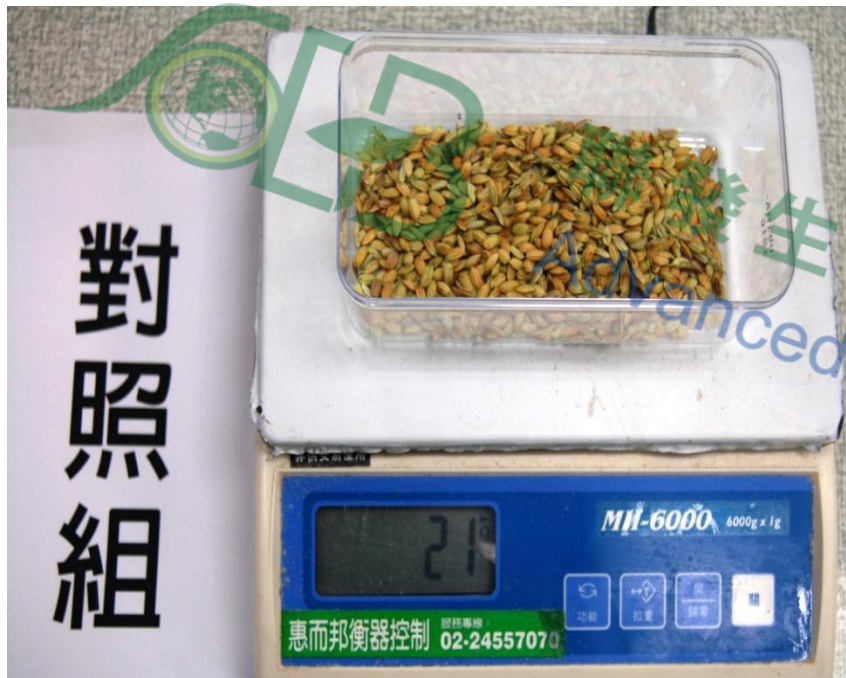
Control 49 gs



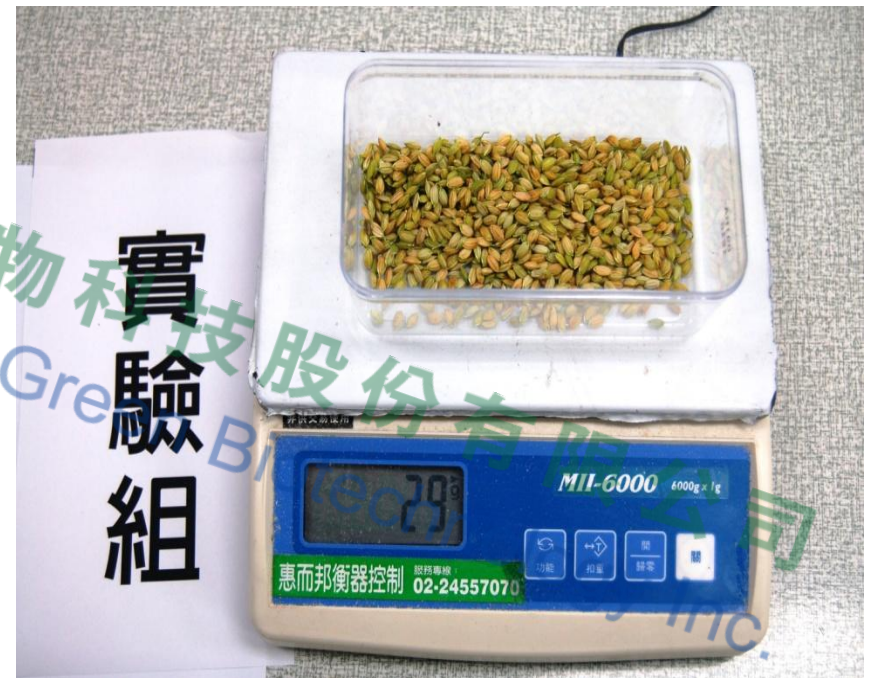
Mi Fert P 73 gs



1000 grains comparison



Control 21 gs



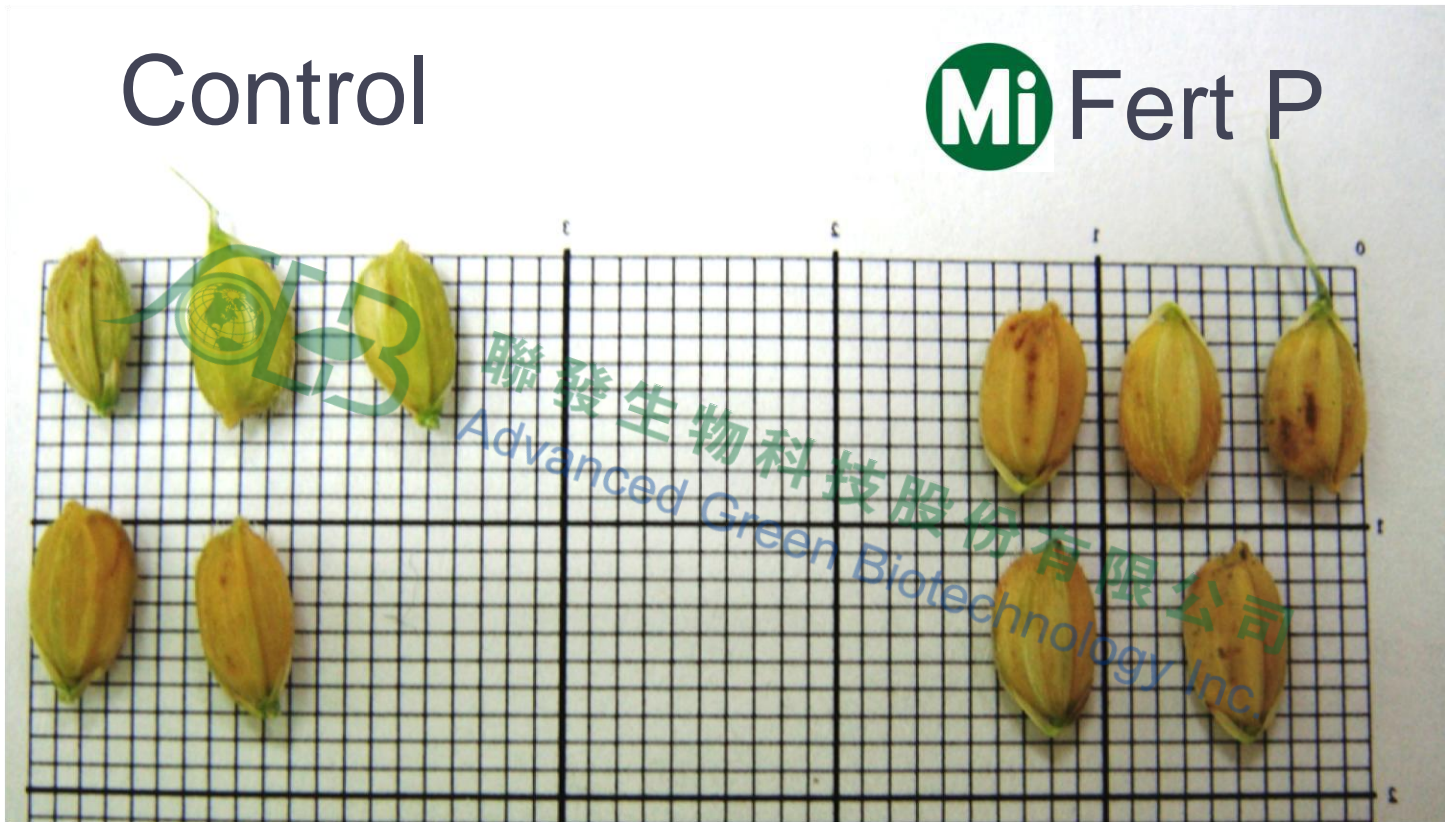
Mi Fert P 29 gs



Single grain comparison

Control

Mi Fert P





Conclusions

- The total rice yield was increased to 900 kgs/0.1ha by using Fert P, but the rice yield without using Fert P was 720 kgs/0.1ha only.
- The results demonstrated that the total productivity of the rice field using Fert P was increased 25% more than without using Fert P.
- Furthermore, the results of grains comparison indicated the productivity of single rice ear and the weight of the grains were all increased by using Fert P.