



Application of Beacon Liquid Fertilizer on Banana

Effectively promote the healthy growth of banana



Pic 1. trial base

Field Trial: This trial was carried out in Jianfeng base of Wangzhong company, with planting sandy soil type, and planting area of 37 mu. It designed 6 treatments, as follows:

- 1) treatment 1: control, 13 mu, 2260 banana plants
- 2) treatment 2: NutriGrow liquid fertilizer, 5.7 mu, 1000 banana plants
- 3) treatment 3: Beacon liquid fertilizer, 3 mu, 552 banana plants
- 4) treatment 4: INS liquid fertilizer, 6.2 mu, 1084 banana plants
- 5) treatment 5: RF 1+1 liquid fertilizer, 2.2 mu, 382 banana plants
- 6) treatment 6: RF 1 liquid fertilizer, 7 mu, 1246 banana plants

The planting time was on July 11th, 2011, and statistics time was on Oct. 27th, 2011. The followings were the statistics of banana growth and



diseases on each trial plot.



Pic 2. Beacon technician testing

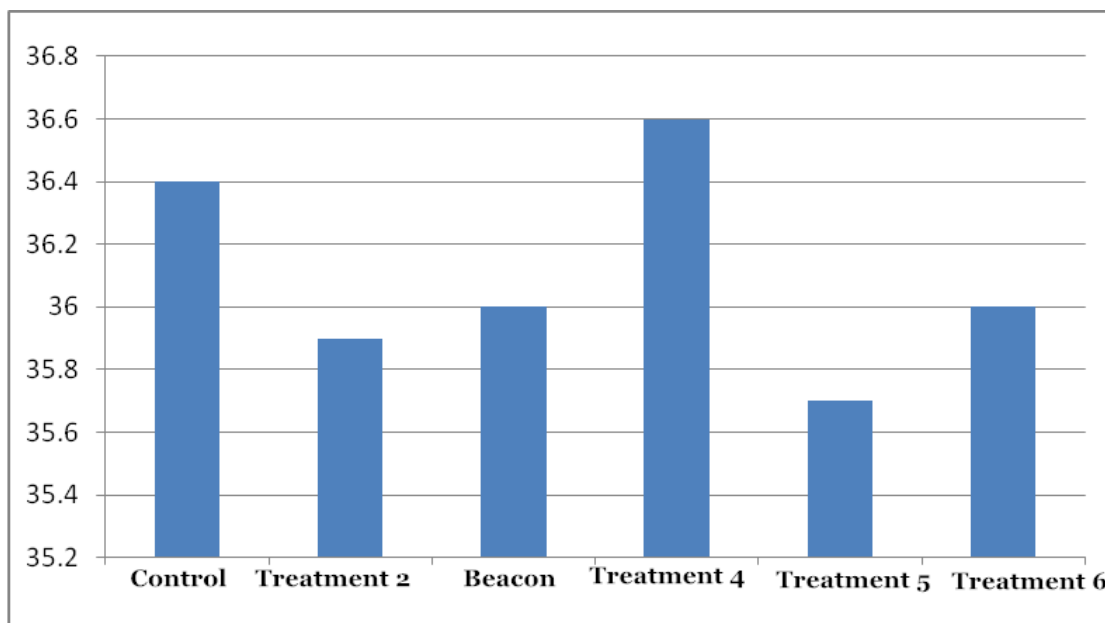


Fig 1.number of new leaves after different treatments

As it can be seen from Fig 1 that the number of new leaves after different treatments was treatment 4 > control > Beacon > treatment 6 > treatment 2 > treatment 5.

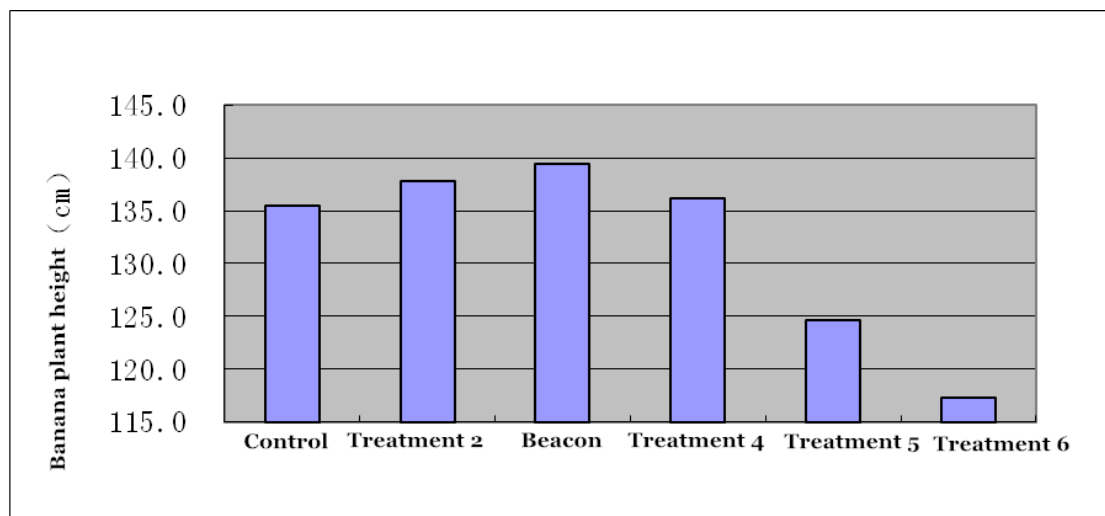


Fig 2.banana plant height after different treatments

As it can be seen from Fig 2 that the banana plant height after different treatments was Beacon>treatment 2>treatment 4>control>treatment 5>treatment 6.

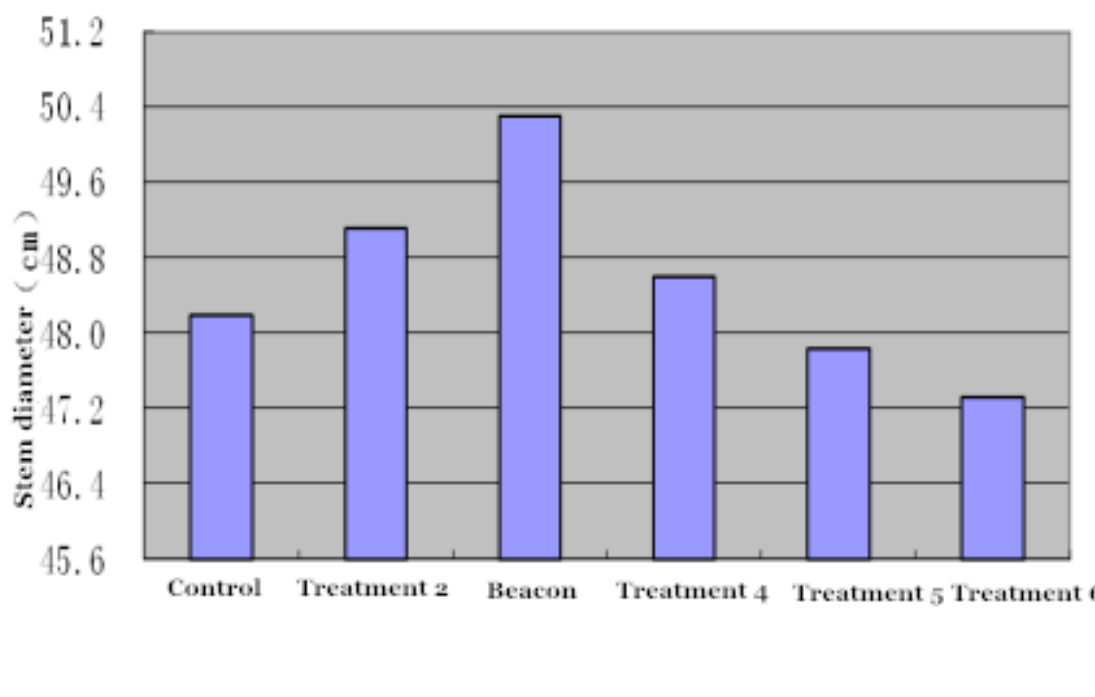


Fig 3.banana stem diameter after different treatments

As it can be seen from Fig 3 that the banana stem diameter after different



treatments was Beacon>treatment 2>treatment 4>control>treatment 5>treatment 6.

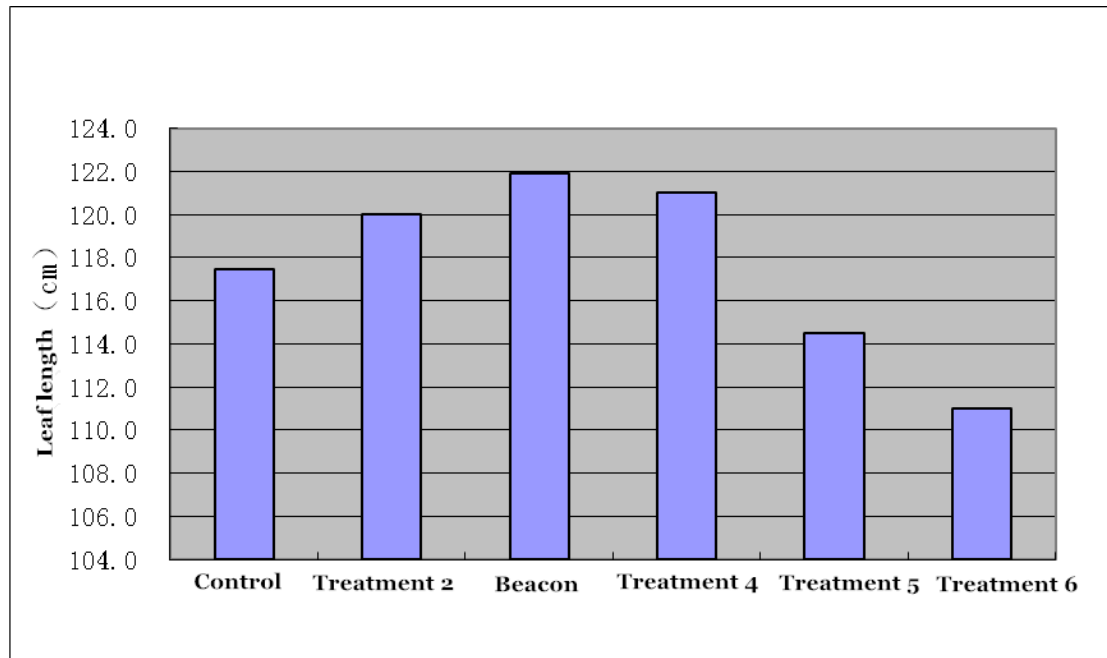


Fig 4.banana leaf length after different treatments

As it can be seen from Fig 4 that the banana stem diameter after different treatments was Beacon>treatment 4>treatment 2>control>treatment 5>treatment 6.

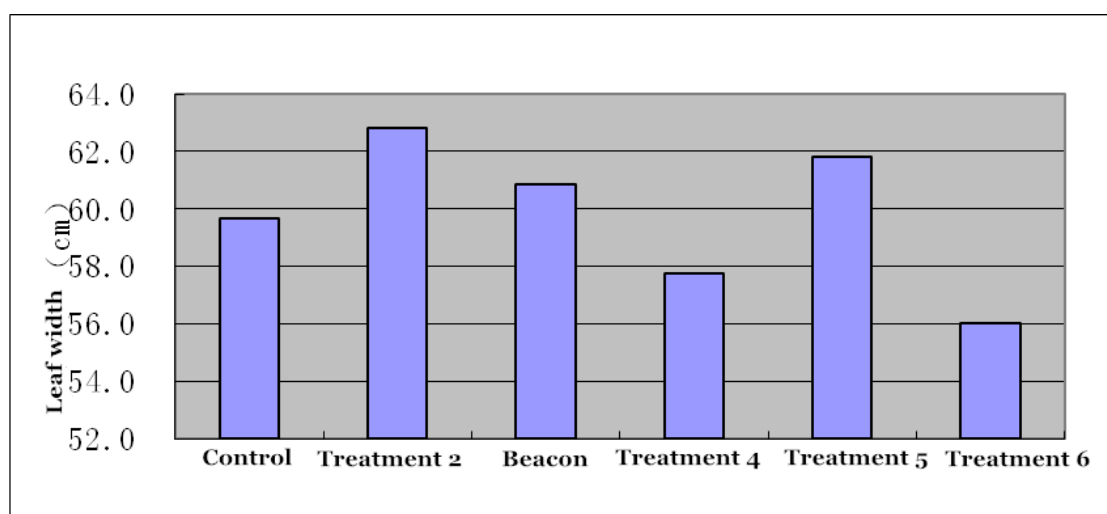


Fig 5.banana leaf width after different treatments



As it can be seen from Fig 5 that the banana stem diameter after different treatments was treatment 2 > treatment 5 > Beacon > control > treatment 4 > treatment 6.

Treatment Item	Control	T 2	Beacon	T 4	T 5	T 6	Total
total number of banana plants	2260	1000	552	1084	382	1246	6524
number of death banana plants	679	291	56	207	67	220	1520
death rate	30.04	29.10	10.14	19.10	17.54	17.66	23.30
number of "yellow leaf" banana plants	352	98	63	161	44	138	856
diseases incidence	15.58	9.80	11.41	14.85	11.52	11.08	13.12

Fig 6. banana death rate and diseases incidence after different treatments

Death banana plants include death banana plants when transplanted, death banana plants with rot roots, death banana plants after typhoon, death banana plants with yellow leaf disease, and other death banana plants. The death rate from high to low was control > treatment 2 > treatment 4 > treatment 6 > treatment 5 > Beacon; the yellow-leaf disease incidence from high to low was control > treatment 4 > treatment 5 > Beacon > treatment 6 > treatment 2. Beacon treatment had the best banana effective survival rate.

In conclusion, till Oct. 30th, 2011, Beacon liquid fertilizer showed best performance from a comprehensive index of banana growth, death rate, yellow-leaf disease incidence. The following effect needed further observation.



Pic 3. comparison between Beacon and another treatment on banana



Pic 4. comparison before and after Beacon treatment



Pic 5. bananas after Beacon treatment

