

# Studies on the Yield and the Quality of Green Asparagus by mulch Ammoniated Rice Hull and Alar Treatment

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## SUMMARY

To increase the yield and quality of green asparagus in the Kao-Ping area, 4 mulch (3cm, 6cm, 9cm, and ck) with ammoniated rice hull and 4 applied concentration 5000ppm, 2500ppm, 1000ppm and ck) of Alar treatments have been tested in winter season 1983. The results were summarized as follows:

The soil temperature under soil 10cm with covered ammoniated rice hull was higher than un-covered. The mean temperature increased  $0.61^{\circ}\text{C}$ ,  $0.7^{\circ}\text{C}$  and  $0.9^{\circ}\text{C}$  in January, February and March respectively, but the temperatural variation was not significantly different among treatments.

The results from the 1st grade number of spears indicated that the 3cm and 9cm covered by ammoniated rice hull could increase 2.2 and 0.4 spears per square meter respectively as compare with the un-covered treatment. As the weight of spears, it also showed that the 9cm and 6cm covered by ammoniated rice hull were higher than un-covered, wheres the yield in all treatments was not significantly different.

85% Alar diluted to 2500ppm was sprayed to prompt the asparagus growth it increased not only 1st grade of spears but also a high yield to reach 763.7 Kilogram per 0.1ha.