Studies on the Pesticide Spraying Attachment of Multiuse Machine for Sloped Land

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SUMMARY

Speed spraying attachments of multi-use machinery for sloped land in assembled for machine. This machine may be controlled by a man for pesticide spraying. Adjustment of the spraying fan may be 20 degree to the right or left side, Nozzles may be ciculatory spraying when adjust. By this way, it may be working well on any condition of the land with high efficiency.

This machine may be sprayed at sprayer at 15 kg/cm^2 , nozzle pore at 1.6 mm, velocity at 25 m/s, Spraying spot, diameter ranged from $100 - 400 \mu$. Spraying diameter is 4 m.

This machine moving with speed at 1.5 km/hr to control leaf mine moth in a 7 year old citrus orchard. The results of this experiment showed that when the pesticide spot attachment was evaluated for 7 classes. It was found 4.3 at leaf back, spraying amounts at 810 litre for 1.92 hour, Comparing to conventional machine, this may save 45.5 % pesticide and 10.7 times for efficiency. This is a high efficiency spraying machine for plant protection. We suggest to have some demonstration for extension.

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