APPENDIX 9

Spread Prevention & Control of Apple Snail: Country Report (Brunei Darussalam)

Crop Protection Unit

Department of Agriculture and Agrifood

Introduction

- Currently GAS infestation in the country is distributed in most farms of commodities of padi and vegetables especially in areas where pools of water are present.

Introduction

- It has been found in padi irrigated fields, drains and pools of vegetable farms







Introduction

- No specific survey of GAS other than complaint-based visits.
- Losses have never been estimated due to low levels of concerns by farmers.
- Department of Agriculture and Agrifood has provided incentives of GAS molluscicidal for the use of farmers.

Introduction

- It has been noticed that local GAS are larger in sizes and farmers have claimed the smaller sized GAS are invasive species but proper identification has never been done.



Patterns of Spread of GAS

- Irrigation - running water from dams
- Dried-up drains acts as hibernating sources
- Sticks around plots for GAS egg deposition

Invasion pathways of GAS

•No information available

Utilization of GAS

- Interviewed farm workers have mentioned they've collected GAS for food.

Public Education

- Currently training materials only provided to padi farmers on awareness of GAS and control management options.

Management guidelines

- DoAA provided incentives for niclosamide molluscicidal - low levels of purchase from farmers.
- Practise transplanted padi reduces GAS damage.

Management guidelines

- Physical removal of GAS eggs on bait sticks.



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Management guidelines

- Usage of physical barriers at drainage outlets to control entry of GAS but advise has been given to use smaller grid barriers





Management guidelines



Conclusions

- Capacity building of GAS identification and control management strategies.
- Increase awareness on GAS for farmers.
- Gather information by conducting surveillance of padi farming areas.
- Identify sources of non-local GAS species

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(Pomaceae spp.) IN RICE
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