TROPICAL RAT-CONTROL COMMITTEE GUIDE

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Fundamental concept for the control of tropical rats

The goal of the technical development for the rat control is to develop superior methods that are putting the principal object to suppress economical and hygienic damages within a minimum level, and simultaneously considering to be benign to the globe, to be higher safety and to be minimum influences to environments.

Technical guidance

1) **To study taxonomy, ecology and habitats of rats**
2) **To establish a range of control area, time suited for control treatment and control system**
3) **To systemize control organizations**
4) **To form of pre-census method**
5) **To form to conduct an evaluation method**
6) **To make a form for periodically census and occurrence forecast**

Establishment and major activities of TRC

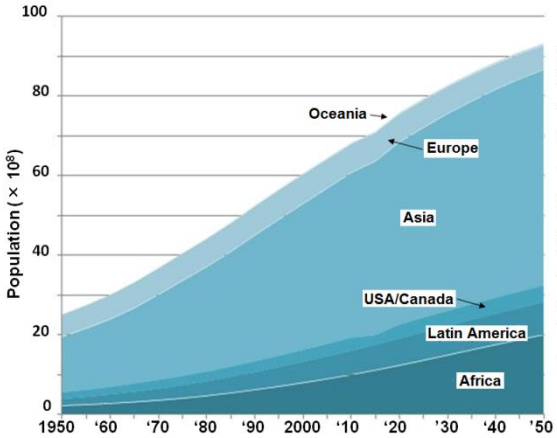
TRC was established in the Overseas Agricultural Development Association (OADA) in 1976 to contribute for the great development of technology of rat control in developing countries.
TRC has composed of researchers and scientists contributing to resolve problems of rats in developing countries.
TRC is always waiting the opportunities to promoting the cooperative work on the rat problems with developing countries and conduct research & development studies such as.

1) **Research & development regarding rats in developing countries**
2) **Rat control, field survey and its guidance in developing countries**
3) **Providing information regarding rats in developing countries**
4) **Holding seminar & lecture meetings regarding rats in developing countries**

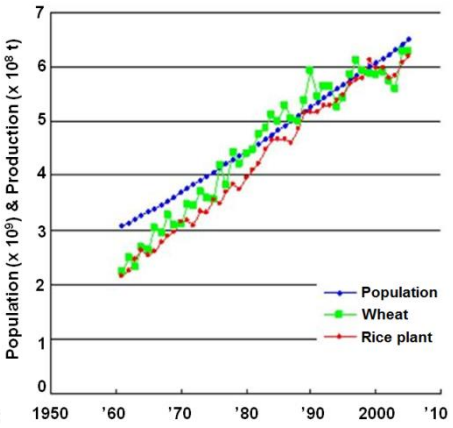
Outcomes of activities to date

1. **Survey on rat damages and proposal of the control strategies in Indonesia and the Philippines**
2. **Tests of comparative effectiveness with several formulations of rodenticides**
3. **Cooperative work for the technical development of rat control in villages of Nepal**
4. **Publication of the text book, Biology and Control of Tropical Rats (1996)**
5. **To run news, review abstracts on various problems of tropical rodents in the Journal published by OADA**

Human population of the world is continuing explosive increase. Great shortage of grain foods on the global scale will be coming!!



World population (Statist Bur, MID)



Population and cereal production(Tokyo Univ Agr Technol)

Damages caused by rats, especially that of food crops, are very serious. Therefore, it is very important to develop the control strategy against rats and to translate the superior programs into the control campaign in villages.

Damages caused by rats

- **Economic damages: agricultural crops, stored foods, houses, communication cables, irrigation systems, etc.**
- **Natural Environmental Damage: threaten rare kinds of animals and plants, disruption of ecosystem**
- **Hyginic damages : plague, SARS(severe acute respiratory syndrome), leptospirosis, schistosomiasis, etc.**

The rice-field rat, *Rattus argentiventer*, as the most economically important pest for various crops in Southeast Asia

Damage of rice crops caused by rats in paddy field

The Tropical Rat-control Committee (TRC) is an expert group for rat control and has achieved great success in various districts in Southeast Asia.

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(As of September, 2017)