

Country Report INDONESIA

**Peppertech Meeting
International Pepper Community
Senggigi-Indonesia, 22-26 Dec 2011**

Pepper Cultivation

Smallholders

Black and
White Pepper

Lampung,
Babel, Kaltim,
Kalbar etc

**Area
decreases**

Disease/Related Problems

Foot Rot Disease

- Main problem in Lampung (black pepper)
- *Phytophtora capsici*
- *Soil borne fungus*

Yellow Disease

- Main problem in Bangka Belitung (white pepper)
- Nematodes (*Radopholus similis* dan *Meloidogyne incognita*), fungus (*Fusarium oxysporum*),
- Soil infertility, and low humidity

High fluctuation of prices

- Most of smallholders only have < 2 ha
- Limited affordability in implementing GAP

Climate Changes

- Long rain season make lower production and foot rot disease
- Long dry season make larger infestation of yellow disease

Overcoming Diseases

Healthier plant material

- Single node
- Using microbials: *Trichoderma* and *Pseudomonas flourecens*
- Clean/solarized and fertilized medium

Better cultivation

- GAP
- Biofertilizers and biopesticides

Conventional Breeding

- Hybrid tolerant to foot rot

Seedling Multiplication



Test of hybrid tolerant to foot rot



High production hybrid



Main pest Problems

Stem borer
(Lophobaris piperis Marsh.)

Pepper bug
(Dasynus piperis China)

Blossom bug
(Diconocoris hewetti Dist.)

Overcoming Pests

Resistant Varieties	Botanical Pesticides	Microbials Pesticides	Biofertilizers
<ul style="list-style-type: none">• Local• Breeding	<ul style="list-style-type: none">• Derris• Neem	<ul style="list-style-type: none">• Fungus• Bacterials• Nemathode antagonist	<ul style="list-style-type: none">• Mychoriza

Quality Improvement

Black Pepper

- Green mature berries harvest
- Clean drying
- Grading

White Peppers

- Yellow to reddish berries harvest
- Small scale machanical processing
- Soaking slow running water
- Grading

Recent achievement

Certified
Seedling

Livestock
integration

Releasing
hybrid (next
year)

Geographical
Indication

Thank you
very much