Country Presentation

THAILAND

WORKSHOP ON BIOSECURITY IMPLEMENTATION OF SOUTH AMERICAN LEAF BLIGHT OF RUBBER IN THE ASIA-PACIFIC REGION

12-16 JANUARY 2015

BANGKOK THAILAND

Topic

I. Introduction

II. Existing steps to prevent entry of SALB

III. Planning on SALB pest freedom Area

IV. Awareness and capacity building

V. Sharing of information

I. Introduction

Rubber status –acreage and distribution

- World's largest producer and exporter since 1991
- rubber smallholders 95% (~1.5 million)
- 6 million people involved in NR industry

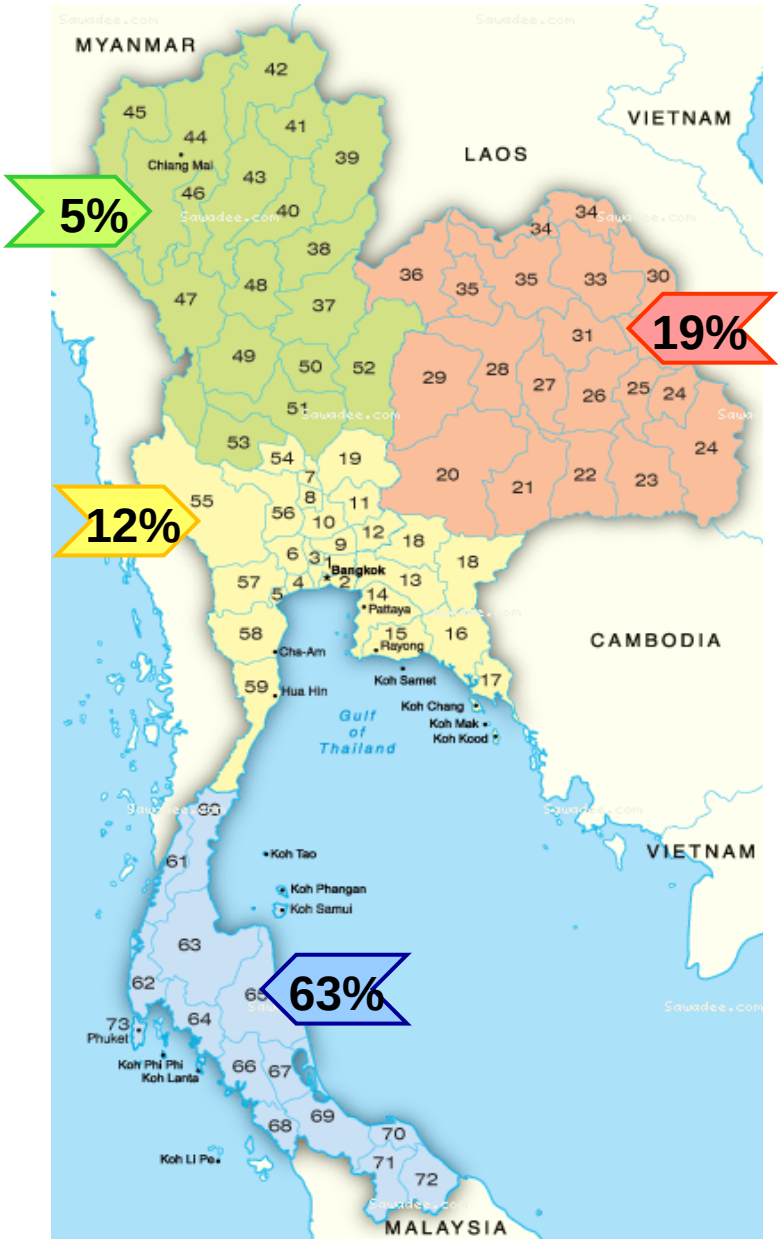
I. Introduction

Rubber status –acreage and distribution

Region	Planted area (ha)		Tapped area (ha)	
	2013	2014 *	2013	2014 *
Northern	196,800	-	75,600	94,500
Northeastern	704,000	-	399,800	464,800
Central	417,600	-	310,400	331,900
Southern	2,230,400	-	1,852,200	1,893,600
Total	3,548,800	3,552,000	2,638,000	2,784,800

* estimates

Distribution of planting area



I. Introduction

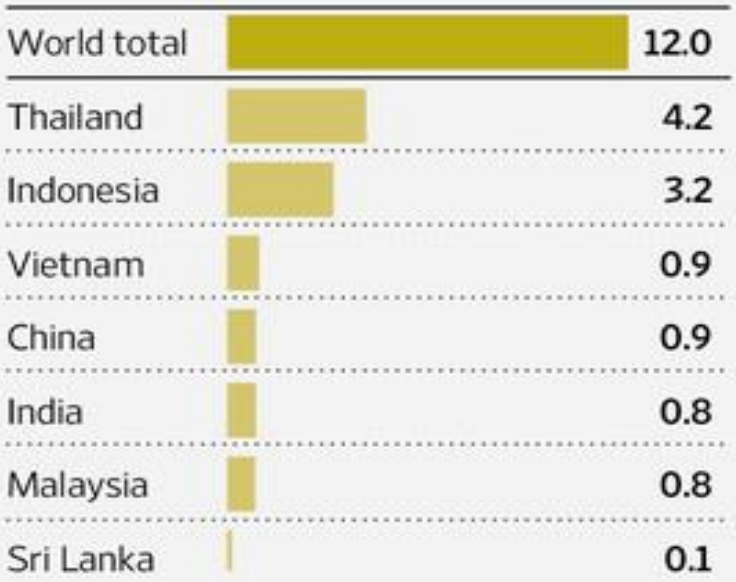
Rubber status –acreage and distribution

Thailand, the world's biggest producer of natural rubber, is paying farmers to switch to palm oil. Rubber prices are down 27% this year.

Rubber futures prices
in Japanese yen



Share of global rubber production, 2013
in thousands of metric tons



Sources: Tokyo Commodity Exchange (prices); International Rubber Study Group (world total production); Assocation of Natural Rubber Producing Countries (production of other countries)
The Wall Street Journal

I. Introduction

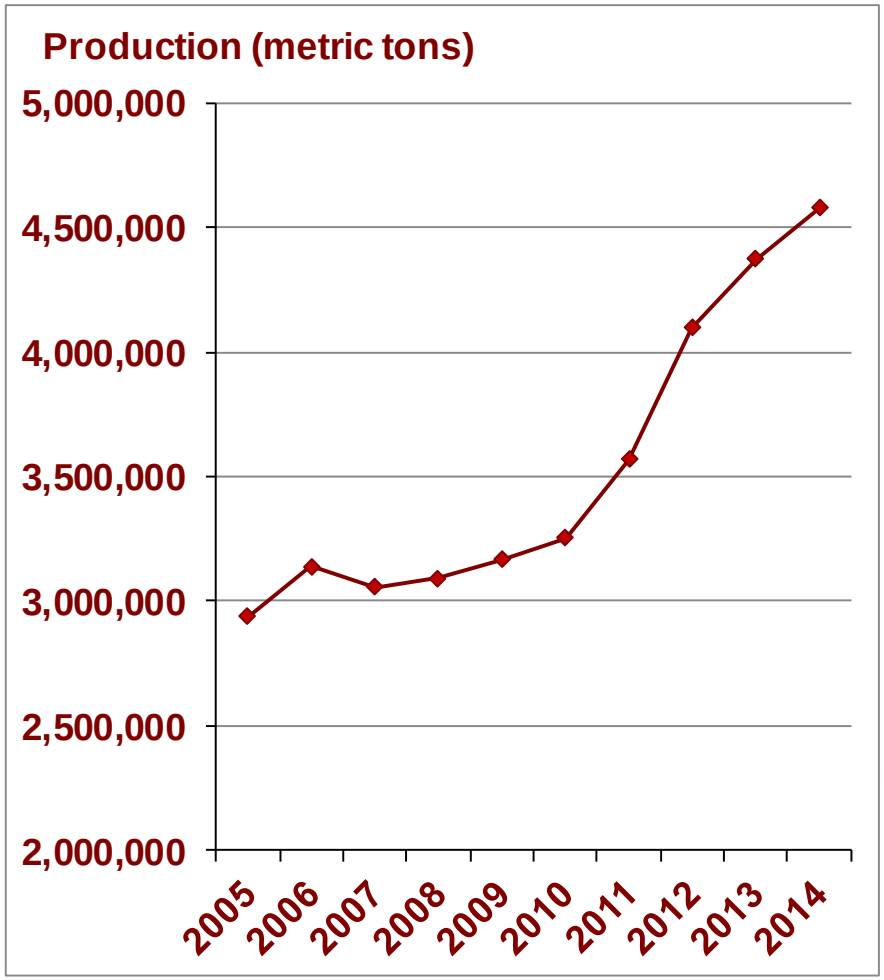
Rubber production and future planning

Region	Production (tons)		Production/Tapping area (kg/ha)	
	2013	2014	2013	2014
Northern	94,672	110,772	1,250	1,180
Northeastern	556,526	611,240	1,400	1,310
Central	491,356	523,138	1,580	1,580
Southern	3,232,766	3,333,388	1,740	1,760
Total	4,375,320	4,578,538	1,660	1,640

I. Introduction

Rubber production and future planning

Year	Production	Percentage change
2005	2,937,158	-1.58
2006	3,136,993	6.80
2007	3,056,005	-2.58
2008	3,089,751	1.10
2009	3,164,379	2.42
2010	3,252,135	2.77
2011	3,569,033	9.74
2012	4,098,110	14.82
2013	4,375,320	6.76
2014	4,578,538	4.64



Source : RRIT (2014)

I. Introduction

Rubber production and future planning

Government plans to reduce	
Planted area	~ 3.6 million ha
Tapped area	> 2.5 million ha
Target of reducing area	16,000 ha/year
Total reducing area (2015-2022)	~112,000 ha

Estimated planting area in 2022 ~3.5 million ha

I. Introduction

Impact on rubber if pest incursion

- climatic condition in the south is more favorable for SALB due to long period of high humidity (>80 % R.H.) and high annual rainfall (about 2,500 mm)
- around 65% of planting area located in the south
- yield loss from severe disease up to 70%

- rubber production will decrease ~2 million metric tons
- one million of rubber smallholdings will lost their income or at least 4 million people will be in trouble

I. Introduction

Biosecurity strategy to curb the SALB incursion

- declared as prohibited zone.
- destruction of the rubber trees that are contributing to the epidemic

II. Existing steps to prevent entry of SALB

Law and Regulations

The Act

Notification of Ministry of Agriculture and Cooperatives

Notification of Department of Agriculture

II. Existing steps to prevent entry of SALB

Law and Regulations

Plant Quarantine Act B.E.2507 (1964) and amendments B.E. 2542 (1999) and B.E. 2551 (2008)

Rubber Regulation Act B.E. 2542 (2009)

II. Existing steps to prevent entry of SALB

Law and Regulations

NOTIFICATION OF

MINISTRY OF AGRICULTURE AND COOPERATIVES

Re: SPECIFICATION OF PLANTS AND CARRIERS FROM CERTAIN SOURCES AS PROHIBITED ARTICLES, OF EXCEPTIONS AND CONDITIONS UNDER THE PLANT QUARANTINE ACT B.E. 2507 (1964) (No.5) B.E. 2550 (2007)

(G/SPS/N/THA/152)

II. Existing steps to prevent entry of SALB

Law and Regulations

NOTIFICATION OF

DEPARTMENT OF AGRICULTURE

Re: SPECIFICATIONS, METHODS AND CONDITIONS

OF PESTS RISK ANALYSIS

FOR THE IMPORTATION OF PROHIBITED ARTICLES

(G/SPS/N/THA/158)

II. Existing steps to prevent entry of SALB

Law and Regulations

Rubber Regulation Act B.E.2542 (1999)

Section8. In the event of a disease outbreak on rubber in any area,

- Minister of Agriculture can be declared as prohibited planting area.
- In the event that it is necessary to destroy the rubber tree, Director General of Department of Agriculture has the authority to order the destruction of the rubber trees that are contributing to the epidemic, according to the method prescribed.

II. Existing steps to prevent entry of SALB

PRA, Import requirements and pest management

Import conditions only for research purposes

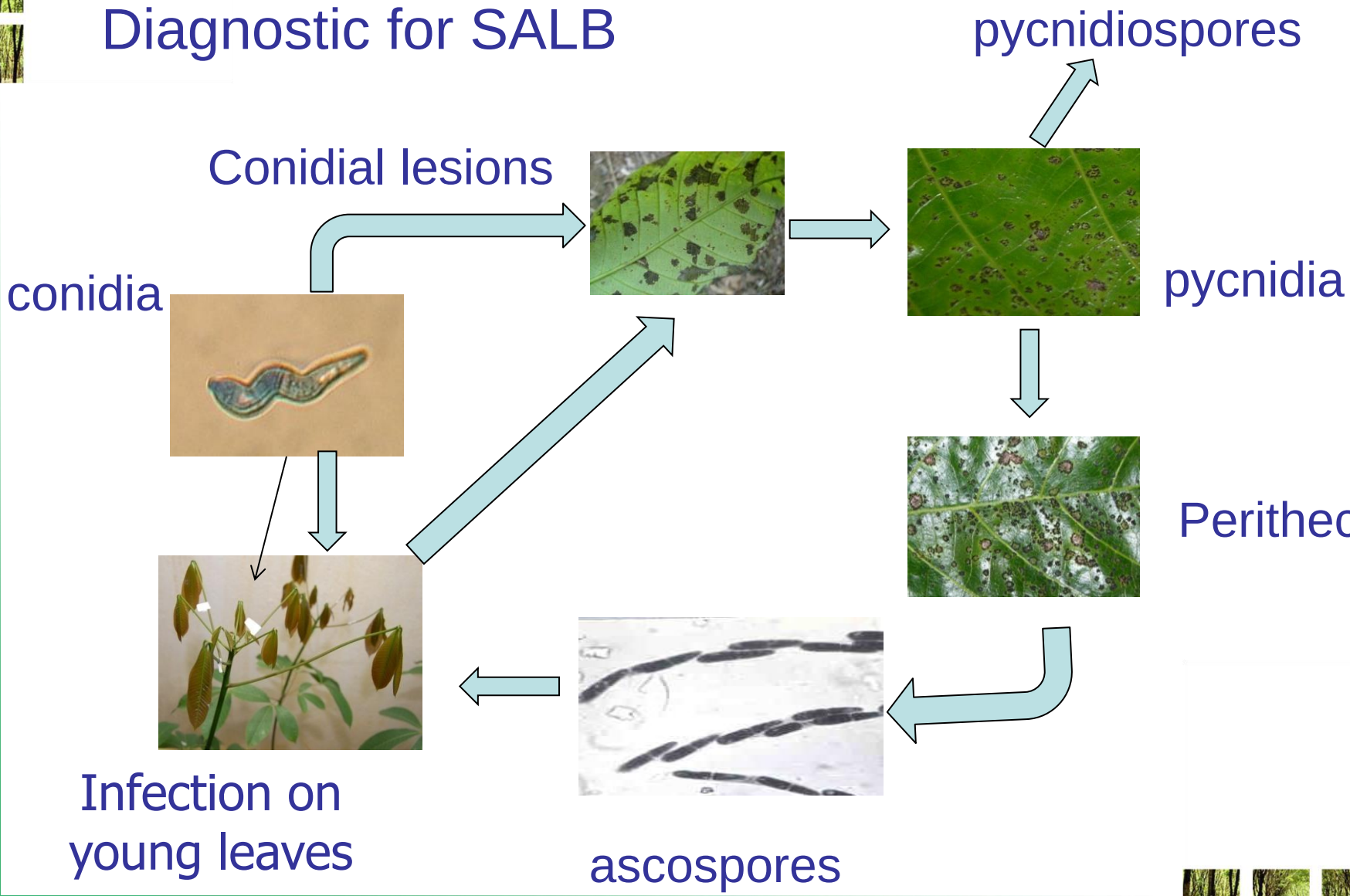
II. Existing steps to prevent entry of SALB

Surveillance system

- No surveillance system for SALB directly
- Conduct disease survey annually in rubber plantation
- Diagnosis by plant pathologist at all times of disease epidemic in rubber plantation

II. Existing steps to prevent entry of SALB

Diagnostic for SALB



II. Existing steps to prevent entry of SALB

Control preparenessed

Legal measures in SALB incursion area

Declare pest controlled area

Chemical control in neighbor area

II. Existing steps to prevent entry of SALB

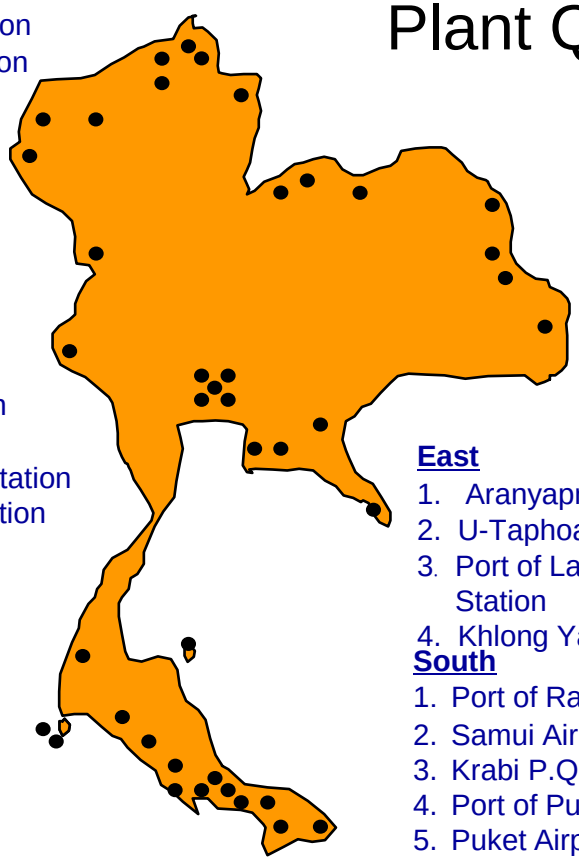
Awareness and Capacity Building

- interview and inspection passenger & luggage for direct flight from SALB countries (during VARIG coming1995-1996)
- leaflets, poster
- training on using of pesticide : one mock exercise (1993)

III. Planning on SALB pest freedom Area

Border control - diagnostic

Plant Quarantine stations (42)



North

1. Chiang Mai Airport P.Q. Station
2. Chiang Rai Airport P.Q. Station
3. Mae Sai P.Q. Station
4. Chiang Saen P.Q. Station
5. Chiang Khong P.Q. Station
6. Mae Sot P.Q. Station
7. Mae Sariang P.Q. Station
8. Mae Hong Son P.Q. Station
9. Thung Chang P.Q. Station

Central

1. Port of Bangkok P. Q. Station
2. Bangkok Airport P.Q. Station
3. Suvarnabhumi Airport P.Q. Station
4. General Post Office P.Q. Station
5. Lat Krabang P.Q. Station
6. Sangkhla Buri P.Q. Station

Northeast

1. Nong Kai P.Q. Station
2. Tha Li P.Q. Station
3. Chiang Khan P.Q. Station
4. Nakhon Phanom P.Q. Station
5. Mukdahan P.Q. Station
6. Phibun Mangsahan P.Q. Station
7. Chong Chom P.Q. Station

East

1. Aranyaprathet P.Q. Station
2. U-Taphoa Airport P.Q. Station
3. Port of Laem Chabang P.Q. Station
4. Khlong Yai P.Q. Station

South

1. Port of Ranong P.Q. Station
2. Samui Airport P.Q. Station
3. Krabi P.Q. Station
4. Port of Puket P.Q. Station
5. Puket Airport P.Q. Station
6. Port of Kantang P.Q. Station
7. Hat Yai Airport P.Q. Station
8. Port of Songkhla P.Q. Station
9. Padang Besar P.Q. Station
10. Sadao P.Q. Station
11. Port of Satun P.Q. Station
12. Wang Prachan P.Q. Station
13. Port of Pattani P.Q. Station
14. Port of Tak Bai P.Q. Station
15. Betong P.Q. Station
16. Su-ngai Kolok P.Q. Station

III. Planning on SALB pest freedom Area

Surveillance – maintaining pest freedom

III. Planning on SALB pest freedom Area

Surveillance data management and sharing

III. Planning on SALB pest freedom Area

Pest reporting

Follow ISPM no. 17

IV. Awareness and Capacity Building

Usage of training module

- PPT from Brazil workshop
- CABI

IV. Awareness and Capacity Building

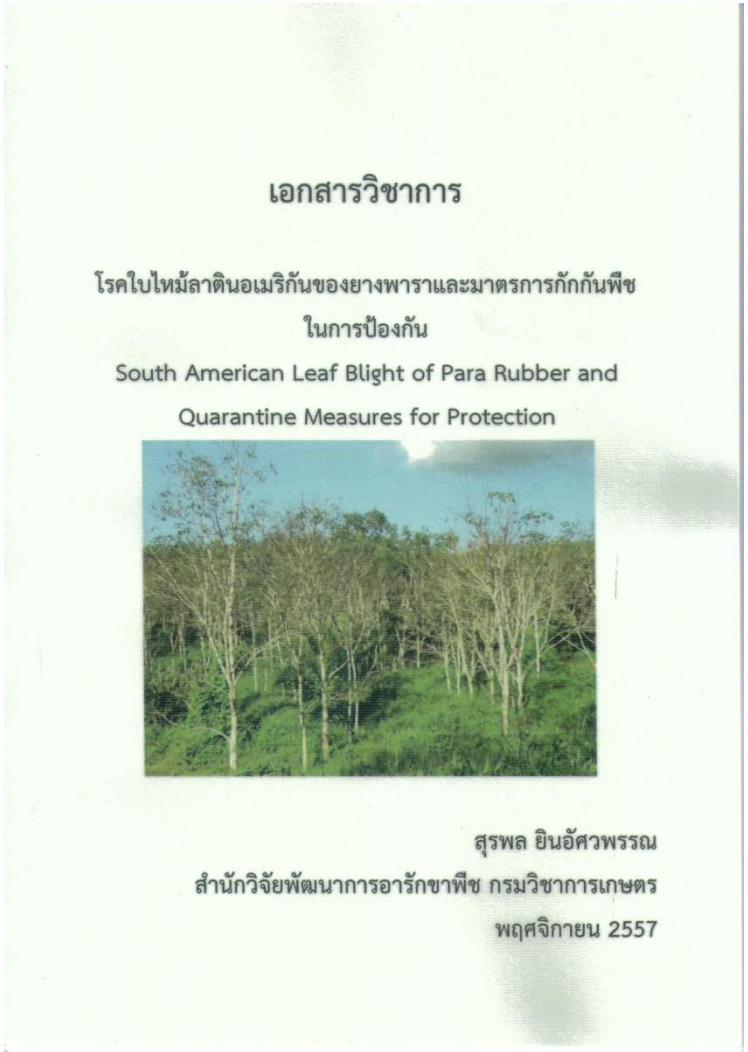
Status on translation



- Published in January 2014
- 1,000 copies

IV. Awareness and Capacity Building

Status on translation



1	Importation of Para Rubber and SALB	1-8
2	Causal Agent, Identification, Isolation, Culture of *Microcyclus ulei*	9-16
3	Symptom, Spores Characteristic, Races, and Spread of *M. ulei*	17-28
4	Management of SALB	29-39
5	Other Quarantine Pests of Rubber	40-88
6	Pest Risk Analysis of *M. ulei*	89-97
7	National Measures for Protection of SALB	98-102
8	International Measures for Protection of SALB	103-115
9	Contingency Plan	116-134
10	World Trade Organization	135-144
11	Agreement on the Application of Sanitary and Phytosanitary Measures	145-153
12	International Plant Protection Convention	154-157
13	National Plant Protection Organization	158-160

IV. Awareness and Capacity Building

Training of implementer

- add in ORRAF's officer training programme
- Workshop on SALB for

  -plant pathologist, breeder in RRIT (4 RRC)

  -plant pathologist , PQ official in PPRDO

  -PQ official in PQ Stations

IV. Awareness and Capacity Building

Awareness program

- Prevention of introduction of SALB into the country : efficient quarantine
- Introduce SALB resistant clones to broaden the genetic base
- Disease survey was annually conducted
- Officer network between DOA and ORRAF (Office of The Rubber Replanting Aid Fund)

V. Sharing of Information

- Type of sharing : meeting and workshop between IRRDB members
- Scope of data that can be shared
  : progress research on pathology and pest management
- obligation in reporting
  : notify if SALB incursion



Thank you

