

## APPENDICES

### Appendix 1. Productivity

#### Oneway

ANOVA					
Productivity	Sum of Squares	df	Mean Square	F	Sig.
Between groups	293640714.633	2	146820357.317	97.561	.000
Within groups	85779658.300	57	1504906.286		
Total	379420372.933	59			

#### Homogeneous Subsets

Productivity					
Subset for alpha = .05					
Farmer Group	N	1	2	3	
Duncan <sup>a</sup> Non-IPM-2	20	17047.6500			
Non-IPM-1	20		18008.4000		
IPM	20			22146.5500	
Sig.		1.000	1.000	1.000	

Means for groups in homogeneous subsets are displayed.

<sup>a</sup>. Uses Harmonic Mean Sample Size = 20.000.

## Appendix 2. Profitability

### Oneway

ANOVA					
Profitability	Sum of Squares	df	Mean Square	F	Sig.
Between groups	191682641374457.600	2	95841320687228.800	261.545	.000
Within groups	20887258691468.950	57	366443134938.052		
Total	212569900065926.600	59			

### Homogeneous Subsets

Profitability					
Subset for alpha = .05					
Farmer groups	N	1	2	3	
Duncan <sup>a</sup> Non-IPM-2	20	8586673.9500			
Non-IPM-1	20		9447916.7000		
IPM	20			12734807.1000	
Sig.		1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

<sup>a</sup>. Uses Harmonic Mean Sample Size = 20.000.

### Appendix 3. Implementation of IPM practice

No.	Seed selection ---(Seed name)---	Land preparation ---(time)---	Fertilizer application ---(kg/ha)---	Pesticide application ------(type)-----	Harvest ---(day)---
1	KK-cross (F <sub>1</sub> )	4	403	8	14
2	KK-cross (F <sub>1</sub> )	4	403	6,10,11	14
3	KK-cross (F <sub>1</sub> )	2	485	8	14
4	KK-cross (F <sub>1</sub> )	3	403	3,8,10	14
5	KK-cross (F <sub>1</sub> )	3	470	9	14
6	KK-cross (F <sub>1</sub> )	3	464	8,9	14
7	KK-cross (F <sub>1</sub> )	2	408	8,9	15
8	KK-cross (F <sub>1</sub> )	4	487	3,9,10	14
9	KK-cross (F <sub>1</sub> )	4	464	9,11	14
10	KK-cross (F <sub>1</sub> )	4	413	8,9	15
11	KK-cross (F <sub>1</sub> )	3	412	9	14
12	KK-cross (F <sub>1</sub> )	4	485	8	14
13	KK-cross (F <sub>1</sub> )	4	470	8,9	14
14	KK-cross (F <sub>1</sub> )	3	485	11	14
15	KK-cross (F <sub>1</sub> )	4	415	4,6,9,11	15
16	KK-cross (F <sub>1</sub> )	2	516	11	15
17	KK-cross (F <sub>1</sub> )	3	432	1,3,4	14
18	KK-cross (F <sub>1</sub> )	4	486	1,8,11	14
19	KK-cross (F <sub>1</sub> )	4	462	11	15
20	KK-cross (F <sub>1</sub> )	3	491	9	15

Note:

- Seed selection:

KK-cross (F<sub>1</sub>), adopted

- Land preparation:

Not adopted < 2 < adopted

- Harvest:

Not adopted < 14 < adopted

- Fertilizer application:

Adopted < 470 < not adopted

- Pesticide application:

Not adopted when applied (1=folidol, 3=Phosdrin, 4=Fitor, 6=Metaphose, 9=Thiodan 35EC, and 10=Lockphos); adopted when applied (8=Pegasus 500DD and 11=Regent 800WG)

No. adopted	Area of apply IPM practice (ha)	A (%)
20	0.9975	100
1		
17	0.83	83
1		
13	0.57	57
1		
6	0.34	34
1		
20	0.9975	100
1		

No.	Growing area -----(ha)-----
1	0.04
2	0.04
3	0.06
4	0.04
5	0.05
6	0.05
7	0.04
8	0.06
9	0.05
10	0.04
11	0.04
12	0.06
13	0.05
14	0.06
15	0.04
16	0.07
17	0.04
18	0.06
19	0.05
20	0.06

IPM practice	Respondent				
	No. participated	No. adopted	C	A	I <sub>a</sub>
Seed selection	20	20	100	100	100
Land preparation	20	17	85	83	70
Fertilizer application	20	13	65	57	37
Pesticide application	20	6	30	34	10
Harvest	20	20	100	100	100

C = No. adpted/No. participated

A = Area of IPM grow cabbage/Total cabbage area

ลิขสิทธิ์มหาวิทยาลัยเชียงใหม่  
Copyright© by Chiang Mai University  
All rights reserved

**Appendix 4. List of pesticide**

No.	Trade name	Common name	Label	Source	WHO class
1	Folidol	<i>methyl parathion</i>	Thai	Thai	Ia
2	Foxentol	<i>methyl parathion</i>	Thai	Thai	Ia
3	Metaphos 40ND	<i>methyl parathion</i>	English	VN	Ia
4	Phosdrin	<i>mevinphos</i>	Thai	Thai	Ia
5	Lockphos	<i>mevinphos</i>	Thai	Thai	Ia
6	Fitor	<i>mevinphos</i>	Thai	Thai	Ia
7	Marathon	<i>methamidophos</i>	Thai	Thai	Ib
8	Thiodan 35EC	<i>endosulfan</i>	VN	VN	II
9	Regent 800WG	<i>fipronil</i>	VN	VN	II
10	Pegasus 500DD	<i>diafenthiuron</i>	VN/English	Thai	III

Ia=extremely hazardous, Ib=highly hazardous, II=moderately hazardous, and III=slightly hazardous.

Source: CEDAC, 2000.

ลิขสิทธิ์มหาวิทยาลัยเชียงใหม่  
 Copyright© by Chiang Mai University  
 All rights reserved

**Appendix 5. List of insect pest**

No.	Common name	Scientific name	Family name
1	Flea beetle	<i>Phyllotreta</i> sp.	Chrysomelidae
2	Webworm	<i>Crocidolomia binotalis</i> (Zeller)	Pyralidae
3	Legume aphid	<i>Aphis craccivora</i> (Koch)	Aphididae
4	Armyworm	<i>Spodoptera litura</i> (F.)	Noctuidae
5	Diamondback moth	<i>Plutella xylostella</i> (L.)	Yponomeutidae
6	Cabbageworm	<i>Pieris rapae</i> (L.)	Pieridae
7	Leaf miner	<i>Liriomyza huidobrensis</i> (Blanchard)	Agromyzidae
8	Green looper	<i>Chrysodeixis (=Plusia) chalcites</i> (Esper)	Noctuidae
9	Cabbage shield bug	<i>Eurydema pulchrum</i> (Westwood)	Pentatomidae
10	Green stink bug	<i>Nezara viridula</i> (L.)	Pentatomidae
11	Red spider mite	<i>Tetranychus cinnabarinus</i> (Boisduval)	Tetranychidae
12	Hispa beetles	<i>Dactylispa</i> sp.	Chrysomelidae
13	Cabbage sawfly	<i>Athalia</i> sp.	Tenthredinidae
14	Legume pod bug	<i>Anoplocnemis phasiana</i> (F.)	Coreidae

Source: Sheppard *et al.*, 1999.

## CURRICULUM VITAE

**Name:** Rasmey HAY

**Date of birth:** July 07, 1975

**Educational background:**

2002-2004 M.S. Agriculture (Agricultural Systems)  
Chiang Mai University, Chiang Mai, Thailand.

1997-2001 B.B.A. Management  
National Institute of Management, Phnom Penh,  
Cambodia.

1992-1997 B.S. Animal Production and Health  
Royal University of Agriculture, Phnom Penh,  
Cambodia.

**Scholarships:** Department of Technical and Economic Cooperation  
(DTEC), Thailand.

**Working experiences:**

2002 - present Vice Chief of Organization Office, Department of  
Personnel and Human Resources Development,  
Ministry of Agriculture, Forestry and Fisheries, Phnom  
Penh, Cambodia.

2001 - 2002 Vice Chief of Personnel Office, Department of  
Administrative Affair, Ministry of Agriculture, Forestry  
and Fisheries, Phnom Penh, Cambodia.

1999 - 2001 Personal assistant to the Minister of Agriculture,  
Forestry and Fisheries, Phnom Penh, Cambodia.

1997 - 1999 Facilitator Officer, Department of Planning, Statistics  
and International Cooperation, Ministry of Agriculture,  
Forestry and Fishery, Phnom Penh, Cambodia.

**Contact address:** Mobile: (855) 12 - 688 889  
E-mail: [hasmey@yahoo.com](mailto:hasmey@yahoo.com)