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## **APPENDICES**

## Appendix A

Areas under Cultivation for Rice, Corn, Cassava, Hemp, and Sugar cane in Northeastern Thailand, Harvest Years 1961/1962 to 1988/1989 (unit: 1,000 rai)

Year	Rice	Corn	Cassava	Hemp	Sugar Cane	Combined area	Total area
1961/62	15,408	329	32	1,132	229	1,722	17,130
1973/74	22,139	1,536	816	2,642	91	5,085	27,224
1976/77	23,735	2,587	2,117	1,009	314	6,027	29,762
1978/79	27,821	2,048	4,584	1,962	289	8,883	36,704
1982/83	26,607	3,132	4,539	1,375	647	9,675	36,282
1985/86	29,831	3,260	5,532	1,407	489	10,688	40,519
1988/89	29,187	3,092	5,926	833	616	10,467	39,654

Source: Office of Agricultural Economy, Ministry of Agriculture and Agricultural Cooperatives, "Thailand's Agricultural Statistics" (several issues), as cited in Prayong and Bantorn (1992: 186)

## Appendix B

Regional Output and Per Capital Output 1993 and 1998.

	Regional output (millions of baht)		Per capita output (baht)	
	1993	1998	1993	1998
Bangkok and surrounding areas	1,659,211	2,215,542	173,994	203,373
Central region	132,691	209,097	46,657	71,953
Eastern region	288,376	573,088	78,834	147,323
Northeastern region	353,487	537,968	17,739	25,947
Northern region	296,529	435,939	26,977	38,923
Southern region	270,202	460,313	25,413	56,432
Western region	133,761	196,463	40,818	57,434

*Source: Data from the Office of the National Economic and Social Development Board, 2000, as compiled in Maniemai 2002.*

## Appendix C

Average Household Monthly Income, Divided by Source of Income, in the Northeast, Bangkok, and Thailand as a Whole for the year 2000.

Source of Income	Country		Bangkok		Northeast	
	Amount in baht	Percent	Amount in baht	Percent	Amount in baht	Percent
<b>Total monthly income</b>	12,167	100	24,690	100	7,853	100
<b>Total current income</b>	11,962	100	24,599	100	7,675	100
Cash income	9,732	100	21,052	100	5,671	100
Wages and salaries	5,047	42	13,278	54	2,468	31
Profits, non-agricultural activities	2,335	19	5,873	24	1,250	16
Profits, agricultural activities	1,168	10	51	0.2	845	11
Interest income	177	1	308	1	89	1
Remittances	1,005	8	1,542	6	1,019	13
Non-cash income	1,230	18	3,546	14	2,004	25
Other cash income	205	2	91	0	179	2

*Source: Data from the National Statistical Office, 2002, compiled by Thongyou (2002).*

## Appendix D

The poverty line, proportion of poor people and the number of poor people in Northeastern Thailand in 2004.

<b>Region</b>	<b>Poverty line (baht/person/month)</b>	<b>Proportion of poor people (percentage)</b>	<b>Number of poor people (thousand)</b>
Bangkok	1,853	2	108
Central plain	1,339	5	757
Northeast	1,078	17	3,651
North	1,131	16	1,907
South	1,164	8	655
Total	1,242	11	7,079

*Source: A survey by the Office of National Statistic, calculated by office of the National Economic and Social Development Board.*

## Appendix E

Income gained from working outside the locality and remitted per month.

<b>Items</b>	<b>Baht (percent)</b>
1. Total remitted income (710 households)	1,874,492 baht
2. Remitted income as percentage of total income (1,574 households)	20 percent
3. Remitted income as a percentage of all non-agricultural income (1,574 households)	33 percent
4. Remitted income/household (average of 710 households)	2,640 baht
5. Average income/households (average of 1,574 households)	6,053 baht
6. Remitted income as a percentage of average income of every household	44 percent
7. Average on-agricultural income/household (average of 1,574 households)	3,652 baht
8. Remitted income as a percentage of average non-agricultural income	72 percent
9. Remittance income/person	1,487 baht
10. Male laborer remittance income/person	1,611 baht
11. Female laborer remittance income/person	1,336 baht
12. Percentage of male laborers who remit	95 percent
13. Percentage of female laborers who remit	97 percent

*Source: Survey of 1,574 households in 12 villages in 10 northeastern provinces in 2001 (Suwit 2003: 412)*



## Appendix F

Average growth of production costs and incomes from rice farming in annual cultivation, 1995/2006. (Baht/rai)

Items	Year									
	1995/96	1996/97	1998/99	1999/20	2000/01	2001/02	2002/03	2003/04	2004/05	
Variable Cost	1056	1148	1195	1333	1338	1465	1479	1532	1562	
Labor	789	870	914	1030	1044	11	11120	1128	1158	
Materials	228	240	242	269	260	314	315	324	326	
Interest and opportunity cost	39	37	39	34	33	37	53	80	78	
Fixed cost	219	219	219	219	219	220	219	219	219	
Total cost	1275	1367	1414	1553	1557	1684	1699	1752	1781	
Productivity/rai (kg.)	309	310	330	332	336	343	361	345	363	
Rice price at farm gate (baht/kg.)	4	6	7	6	5	5	5	5	5	
Income/rai (baht)	1526	1708	21945	1912	1633	1544	1722	1742	1902	
Compensation/rai (baht)	251	341	780.35	360	76	141	23	9	121	
Ratio of compensation/rai (%)	20	25	55.18	23	5	8	2	1	7	

Source: Narong Petchprasert et.al. (2006: 46).

## Appendix G

Production Costs and Incomes Derived from Cultivation, 2004-2005, Divided by Region.

Items	Production costs				
	All country	North	Northeast	Central	South
Variable Cost	1562	1587	1481	1758	1749
Labor	1158	1141	1145	1177	1353
Materials	326	367	262	493	309
Interest and opportunity cost	78	79	74	88	87
Fixed cost	219	259	190	257	294
Total cost	1781	1846	1671	2015	1989
Productivity/ rai (kg.)	393	431	290	513	366
Rice price at farm gate (baht/kg.)	5	6	6	5	5
Income/rai (baht)	1950	2427	1794	2776	1986
Net profits/rai (baht)	169	581	123	761	-4
Ratio of Net profits Net profits /rai (percent)	9	31	7	38	0

## Appendix H

Total and Selected Agriculture Exports from Thailand, 1970-1995 (in millions of US dollars)

Year	Total Exports	Total Agricultural Exports		Rice Exports		Fruit and Vegetable Products		Meats and Poultry	
	Value	Value	Percent Of Total	Value	Percent Of Ag. Exports	Value	Percent Of Ag. Exports	Value	Percent Of Ag. Exports
1970	708	494	70	121	24	78	16	0	0
1975	2377	1490	63	278	19	281	19	1	0
1980	6505	3344	51	953	28	922	28	33	1
1985	7122	3202	45	829	26	885	28	63	2
1990	22972	5388	23	1086	20	1521	28	314	6
1995	56442	9022	16	1952	22	1492	17	550	6

Source: FAO-STAT, 1990-1998.

## Appendix I

Major international organic markets.

<b>Country</b>	<b>Estimated retail sales 2003 (US\$ 1,000,000)</b>	<b>Annual growth rate of retail sales (percent)</b>
United States	11,000-13,000	15-20
Germany	2,800-3,100	5-10
United Kingdom	1,550-1,750	10-15
Italy	1,250-1,400	5-15
France	1,200-1,300	5-10
Canada	850-1,000	10-20
Switzerland	725-775	5-15
Netherlands	425-475	5-10
Japan	350-450	-
World Total	23,000-25,000	

*Source: ITC, 2003 data cited in Reynolds (2003: 732).*

## Appendix J

Jasmine rice Planted Areas in Cultivated Year 1990/1991, 1997/1998 and 2002/2003 and the percentage of Changes between Periods.

Province	Cultivated year			Percentage Change Between Cultivated year		
	1990/91	1997/98	2002/03	1990/91-1997/98	1997/98-2002/03	1990/91-2002/03
<b>Planted area (rai) 1 hectar</b>						
Upper north	510,227	424,490	539,726	-16.80	27.15	5.78
Lower north	473,554	842,486	1,764,382	77.91	109.43	272.58
Upper northeast	3,262,008	3,408,907	4,168,722	4.50	22.29	27.80
Lower northeast	7,067,283	10,471,255	10,976,298	48.17	4.82	55.31
Center	481,943	1,193,790	1,214,723	147.70	1.75	152.05
South	57,702	23,315	19,390	-59.59	-16.83	-66.40
<b>Total</b>	<b>11,852,717</b>	<b>16,364,243</b>	<b>18,683,241</b>	<b>38.06</b>	<b>14.17</b>	<b>57.63</b>
<b>Shared of Planted Area (percentage)</b>						
Upper north	4	3	3	-	-	-
Lower north	4	5	9	-	-	-
Upper northeast	28	21	22	-	-	-
Lower northeast	60	64	59	-	-	-
Center	4	7	7	-	-	-
South	0.5	0.1	0.1	-	-	-
<b>Total</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	-	-	-
<b>Production (ton)</b>						
Upper north	246,988	193,867	228,874	-22	18	-7
Lower north	132,986	272,133	595,170	105	119	348
Upper northeast	816,284	914,182	1,157,484	12	27	42
Lower northeast	1,822,824	2,922,182	3,209,754	60	10	76
Center	71,647	357,765	330,049	399	-8	361
South	16,154	6,020	7,204	-63	20	-56
<b>Total</b>	<b>3,106,883</b>	<b>4,666,149</b>	<b>5,528,535</b>	<b>50</b>	<b>18</b>	<b>78</b>
<b>Share of Production (Percentage)</b>						
Upper north	8	4	4	-	-	-
Lower north	4	6	11	-	-	-
Upper northeast	26	20	21	-	-	-
Lower northeast	59	63	58	-	-	-
Center	2	8	6	-	-	-
South	0.5	0.1	0.1	-	-	-
<b>Total</b>	<b>100</b>	<b>100</b>	<b>100</b>	-	-	-
<b>Average yield (kg./rai)</b>						
Upper north	484	457	424	-	-	-
Lower north	281	323	337	-	-	-
Upper northeast	250	268	278	-	-	-
Lower northeast	258	279	292	-	-	-
Center	149	300	272	-	-	-
South	280	258	372	-	-	-
<b>Total</b>	<b>262</b>	<b>285</b>	<b>296</b>	-	-	-

Note: 1 hectare = 6.25 rai

Source: Calculated from data provided by Office of Agricultural Economics, Ministry of Agriculture and Cooperatives.

## Appendix K

Jasmine Planted Areas and Production by Province in Harvest Years 1990/1991, 1997/1998 and 2002/2003.

Province	Harvest year			Percentage Change Between Harvest year		
	1990/91	1997/98	2002/03	1990/91	1997/98	1990/91
<b>Major planted area by province/ rai</b>						
Ubon Ratchatani	1,537,428	1,417,826	1,648,993	-8	19	17
Si Sa Ket	1,376,254	1,789,768	1,922,081	30	7	47
Surin	1,889,953	2,601,789	2,618,621	38	1	53
Buriram	1,472,663	1,844,657	1,553,537	25	12	55
Roi Et	1,113,895	1,476,501	1,553,537	33	5	49
Nakhon Ratchasima	626,727	2,029,588	1,754,616	214	-14	194
<b>Total</b>	<b>8,016,920</b>	<b>11,160,129</b>	<b>11,604,238</b>	<b>39</b>	<b>4</b>	<b>45</b>
% share of total Jasmine production	68	68	62			
<b>Production (tons)</b>						
Ubon Ratchatani	399,013	364,287	415,520	-9	14	4
Si Sa Ket	415,493	519,336	667,073	25	28	61
Surin	510,596	823,374	743,161	61	-10	46
Buriram	380,760	475,611	644,363	24	35	69
Roi Et	273,089	404,683	379,345	48	-6	39
Nakhon Ratchasima	89,801	547,253	477,496	514	-13	436
<b>Total</b>	<b>2,068,032</b>	<b>3,134,544</b>	<b>3,326,958</b>	<b>52</b>	<b>6</b>	<b>61</b>
% share of total jasmine rice production	67	67	60			

Note: 1 hectare = 6.25 rai

## Appendix L

Population Data of Na Sawan Sub-district in 2008 by Village

<b>Moo</b>	<b>Name of Village</b>	<b>Total Population</b>	<b>Total number of farmers engaged in organic agriculture</b>
Moo 1	Na Sawan village	171	20
Moo 2	Ruang Udom village	97	3
Moo 3	Kam Muang village	153	-
Moo 4	Sa-nommakya village	56	-
Moo 5	Na Kanan village	117	4
Moo 6	Na Nongtung village	110	2
Moo 7	Na-maad village	111	2
Moo 8	Hongpai village	81	3
Moo 9	Non Somboon village	91	2
Moo 10	Na Namkum village	84	-
<b>Total</b>		<b>1,071</b>	<b>36</b>

*Source: The Sub-District Administration Organization and the author survey conducted in 2007.*

## Appendix M

Number of Labors working in Chemical Rice Farming, Organic Rice Farming, On-Farm Wage, Off-Farm Wage, Trade/Private Enterprise, Civil Servant and Others within the Small-Sized Farms, Medium-sized farms and Large-sized Farms.

Farm Size	Main Occupation in Family Farm						Others	Total
	Chemical Rice Farming	Organic Rice Farming	On-Farm Wage	Off-Farm Wage	Trade/Private Enterprise	Civil Servant		
<b>Small-scale farmers</b>								
Number of labors	0	13	0	3	0	0	1	17
Percent	0	76	0	18	0	0	6	29
<b>Medium-scale farmers</b>								
Number of labors	0	16	1	3	2	4	0	26
Percent	0	62	4	12	8	15	0	44
<b>Large-scale farmers</b>								
Number of labors	2	2	1	5	3	2	1	16
Percent	13	13	6	31	19	13	6	27
<b>Total</b>								
Number of labors	2	31	2	11	5	6	2	59
Percent	3	53	3	19	8	10	3	100

Source: A survey conducted by the author in 2007.

## Appendix N

Sales Volumes of Fair Trade Rice (in Metric Tones)

Country	2004	2005	2006
Austria	51	88	109
Belgium	39	85	112
Canada	-	12	14
Denmark	-	-	31
Finland	-	-	2
France	310	456	778
Germany	-	-	170
UK	-	27	385
Ireland	-	-	1
Italy	34	115	163
Luxemburg	-	-	6
Netherlands	-	-	53
Norway	-	9	3
Sweden	1	-	3
Switzerland	948	914	978
USA	-	-	177
Australia/New Zealand	-	-	1
TOTAL	1.383	1.704	2.985

Source: FLO-CERT GmbH.



## Appendix O

Characteristics of conventional and alternative agri-food systems.

<b>Conventional</b>	<b>Alternative</b>
Modern	Post-modern
Manufactured or processed	Natural or Fresh
Mass or large-scale production	Craft or small-scale production
Long food supply chains	Short food supply chains
Cost externalized	Cost internalized
Rationalized	Traditional
Standardized	Different and diverse
Intensive	Extensive
Monoculture	Biodiversity
Homogenization of foods	Regional palates
Hyper markets	Local markets
Agro-chemicals	Organic, sustainable agriculture
Non-renewable energy	Renewable energy
Fast food	Slow food
Quantity	Quality
Dis-embedded	Embedded

Sources: (Ilbery 2005: 825).

## Appendix P

Outlines Basic organic Standards according to IFOAM, FAO/WHO, and FAO/ITC/CTA

Convention	At least a one year conversion period before start of annual production cycle, two years for perennials
Certification and monitoring	Initial inspection followed by annual visits to each farm unit by monitors from accredited certifying organizations
Documentation	Map and list of registered fields. Complete records of farm input use and yields
Planting material	Must be chemically untreated, no genetically modified organisms (GMOs)
Fertilizers	Organic soil enhancing processes must be used. No synthetic fertilizers or sewage sludge
Plants and disease control	Use of synthetic herbicides, fungicides, and pesticides prohibited except those on approved list
Livestock	Feed must be 100% organic, use of antibiotics prohibited. Some restrictions on animal concentrations.
Transport and handling	Chain of custody must be maintained, no co-mingling with non-organic products
Processing	No irradiation. Synthetic additive can be used from approved list
Labeling	Products labeled organic must have 95 percent organic inputs

## Appendix Q

Fair Trade Publication of Article Entitled “Fair Trade Rice Makes Its Debut”  
Published in Co-op America

*Kyra Busch had a thrilling moment in a grocery store. She had just returned to the US after working with rice farmers in Thailand for a year and a half through the Educational Network for Global and Grassroots Exchange (ENGAGE), which connects students studying abroad with grassroots projects in their host communities. Kyra was browsing the shelves when she spotted a box of Fair Trade Certified rice. And “there on the box was a photo of my friends in the farming communities,” recalls Kyra. “There were the people I knew, and their water buffalo, and the mill where I’d been working. It was so exciting. I could really feel the connection. You can improve the situation facing rice farmers by purchasing Fair Trade rice”. Kyra at ENGAGE has the highest hopes of all. She hopes thousands of consumers will have the experience she had—of seeing a box of Fair Trade rice as a connection to real people. For her, Fair Trade rice carries a message that there are human consequences to participating in global agriculture. When you buy a Fair Trade product, says Kyra, visualize a person at the other end who grew this food.*

Source: <http://www.coopamerica.org/pubs/realmoney/articles/fairtraderice.cfm>

## Appendix R

Content of the song, namely “Conventional Rice Farming”

*Rain drops fall onto banana leaves.*

*A transplanting technique is replaced by a sowing technique.*

*Rice has lost its nice fragrance. Straw is never cut.*

*Expecting good things to come, but it might be only a dream.*

*No one cares about relationships. No one greets us.*

*Mutual assistance disappears.*

*When people care only about having money, money has turned into a god.*

*Oh! The present seems to be so different from the past.*

*In pursuit of Thai people who live far away. (Northeasterners are an ethnic minority.*

*They usually identify themselves as Lao, not Thai.)*

*Lao people seem to be busy. It is really difficult to find any help from each other, and people cannot rely on others.*

*Generosity disappears, at the same time paddy fields appear to be drier.*

*People now seek money. Money is the end of their journey.*

*Money has become god.*

*People compete with each other to gain more and more money.*

*When agriculture has changed to be commercial farming, the traditional way of farming has being replaced by the commercialized one. Plowing, and sowing works all depend upon wage labor.*

*Talking about the spread of weeds and pests in the paddy fields nowadays, no water has been stored in the paddy fields, thus only grass grows well. Commercial agriculture has to rely on synthetic agro-chemicals.*

*Increasing synthetic chemical fertilizers, increasing the debt that traps those who take out more loans.*

*Leaves of rice appear to be bright and green with the use of synthetic chemical fertilizer, but no one cares about the problems of contamination by chemical substances and toxic waste.*

*About half the amount of synthetic chemical fertilizer is being used by farmers for the rice, but another half is left, and causes soil borne and waterborne contaminations.*

*However, we still put more and more synthetic chemical fertilizers into the soil. The rice tree is growing. But the growing rice has been destroyed by the pests. Farmers thus have to rely on an increasing amount of chemical pesticide use in order to control the pests.*

*The use of synthetic chemical fertilizer kills insects, crabs, and fish in the paddy fields. Every time we eat glutinous and non-glutinous rice, all we eat are chemicals.*

*The chemical substances cause people to be sick. The farmers have been so ill that they have to be hurry up to see the doctors.*

*Please use the transplanting technique rather than the sowing one.*

*Don't hurry. Don't care too much about money.*

*Exert force, plow, make a dam, maintain water in the paddy fields.*

*Feed the cow and buffalos to have organic fertilizer for the paddy fields.*

*If you feed the buffalos, you will have both meat and manure.*

*Organic fertilizer has value. Although you have a small plot, transplanting rice will provide you enough rice.*

## Appendix S

Level of penalties specified in organic and fair trade rice scheme

	Practices that would be given the penalty	Level of penalties	
		Serious	Moderate
1.	The farmer does not perform organic agriculture in all plots. <sup>1</sup>		X
2.	The farmer does not perform organic agriculture in subsistence plots.		X
3.	The farmer does not grow rotation crops to be left in the paddy fields as green manure.	X	X
4.	The farmer does not set aside seven percent of total productive areas as natural space.	X	X
5.	The farmer uses rice seeds and other inputs which are chemically treated and uses seeds which are genetic modified organisms <sup>2</sup> (GMOs).		X
6.	The farmer uses, or permits the water from conventional rice plots to run into organic rice plots.		X
7.	The farmer uses synthetic chemical fertilizer.		X
8.	The farmer uses synthetic chemical pesticide and insecticide.		X
9.	The farmer uses industrially chemical fertilizer which use manure from animals which are kept in cages and are poorly treated.		X
10.	The farmer does not provide correct data to the internal and external inspectors.	X	X
11.	The farmer does not complete the farm record and does not keep the original receipts as proof of buying and selling items.	X	X
12.	The farmer does not manage organic rice in such a way as to avoid contamination and in such a way to avoid mixing organic rice with rice produced by non-certified producers in the processes of harvest, threshing, rice storage and rice containers.	X	X
13.	The harvest and post-harvesting processes are handled in such a way that does not follow the instructions and does not comply with the regulations.	X	X
14.	No proper explicit farm house to be used for storage organic rice.	X	X
15.	The farmers do not participate in a training program every year.		X
16.	The farmer sells organic rice outside the contract.		X

*Source: From the guidelines for organic rice production according to the EEC No. 2092/91, BIO-SUISSE, NOP, and JAS*

<sup>1</sup> A plot refers to a piece of cultivated land with adjoining space.

<sup>2</sup> Genetically modified organisms are living organisms, either plant, animal, or micro-organism, which is derived from genetic engineering.

## **Appendix T**

The checklist details of organic certification:

1. Characteristics of the production unit (total number of plots, total productive areas, major crop, minor crop, estimated yields, last application date and amount of unallowable inputs, sources of input).
2. Preservation of the soil (measures adopted in crop cultivation, type of weed control, evaluation of preservation efforts).
3. Risks from contamination (risk of drift from conventional crops, application devices are only used in organic production, storage of prohibited inputs on farms, other contamination risks (water, deposited waste, environmental damage by processing, field burn), risk of contamination (mixing between organic rice and other rice during production, harvest, threshing, storage, transport).
4. Ecological balance (growing two trees per rai of productive areas, having hedges, wetlands, ponds, barren land with natural vegetation).
5. Animal husbandry (number of adult livestock and young livestock, quantity of fodder, origin of fodder, estimated manure per one year).
6. Attendance at training sessions, the farmers' understanding of international standards, and evaluation of the quality of training.

## **Appendix U**

The checklist and compliance criteria of fair trade certification

1. Fair trade revenues promote social and economic development of small producers.
2. A system is in place to ensure that the farmers receive a cost-covering price for their product from the organization.
3. The organization is democratically organized.
4. A control system is in place.
5. The internal regulations are established.
6. An administration system is in place that allows for transparent management of finance.
7. The organization has business planning activities in place.
8. The organization has an administrative system in place that allows for transparent management of the fair trade premium.
9. The use of the fair trade premium is democratically decided in advance by the general assembly.
10. The organization and its members take on responsibility over the whole export commercialization process.
11. An environmental plan is implemented to reach compliance with the fair trade standards.

## Appendix V

### Premium Fund Received by the Organic Jasmine Rice Producer Group

<b>Year</b>	<b>Premium (baht)</b>
2003	654,434
2004	906,380
2005	1,238,496
2006	1,582,749
2007	727,339
2008	950,373
<b>TOTAL</b>	<b>6,059,771</b>

## CURRICULUM VITAE

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### Education Background

- 1998 Master Degree of Arts in Sustainable Development, Department of Sociology and Anthropology, Faculty of Social Sciences, Chiang Mai University, Thailand
- 2005 Ph.D. Candidate in Department of Sociology and Anthropology, Faculty of Social Science, Chiang Mai University, Thailand.

### Working Experiences

- 2004 University Lecturer at Walailak University, Nakornsrihammarat Province, Thailand

### Scholarships

- 2005-2006 Researcher in the project “Changing Gender Relations in the Local Communities Being Impacted from the Dam Construction and Irrigation Project in Pakpanang Basin, Nakornsrihammarat Province”, Funded by Thailand Research Fund.
- 2005-2007 Research in the project “Perceptions and Experiences of Sexual Violence among Sex Workers from Lao PDR in the Border Areas of Thai-Lao, Ubonratchatani province, Thailand, Funded by the Rockefeller Foundation.
- 2007-2008 Field Research granted from Challenges of the Research Project on “Agrarian Transition in Southeast Asia” (ChATSEA), York University, Canada.
- 2009 Graduate Fellowship during May-July, 2009, Asian Research Institute (ARI), National University of Singapore.

### Publications

- 2007 “Irrigation Project and Changing Livelihood Strategies in Response to Vulnerability and Disaster in the Pak Panang River Basin in Southern Thailand” in **Globalization, Competitiveness and Human Insecurity in Rural Asia, Asian Rural Sociological Congress 2007**, Vol. I: Policy and

- 2008 “Cross-Border Mobility, Sexual Violence and Otherness in the Thai-Lao Border Zone” in **Trans-border Issues in the Greater Mekong Sub-Region**, Suchada Thaweessit, Peter Vail, and Rosalia Sciortino (eds.), Mekong Sub-region Social Research Center (MSSRC), Faculty of Liberal Arts, Unon Ratchatani University, Thailand, pp. 145-164.
- 2010 “Contesting Meanings in Organic Agriculture and Shifting Identities of Organic Growers in Thailand” **Revisiting Agrarian Transformations in the Greater Mekong Sub-region: New Challenges**. Chayan Vaddhanaphuti and Chusak Wittayapak (eds). RCSD Monograph. Chiangmai: Regional Center for Sustainable Development.
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