

## Appendix

**Appendix A** Gall midge infestation (%) at 80 days after transplanting at Mae Moot village and morphological characters in 20 Muey Nawng accessions and check variety.

Variety	Infestaion (%)	Leaf Blade color	Leaf sheath color	Ligule color	stigma color	Husk color	Apiculus color
<b>Accessions</b>							
MN1	0.89	green with purple at margin	green with purple line	write with purple at margin	purple	straw, straw with brown line	white, purple
MN2	5.84	green with purple at margin	green with purple line	write with purple at margin	purple	straw, straw with brown line	white, purple
MN3	0	green with purple at margin	green with purple line	write with purple at margin	purple	straw, straw with brown line	purple
MN4	5	green, green with purple at margin	green, green with purple line	write, write with purple at margin	white, purple	straw, straw with brown line	white, purple
MN5	0	green with purple at margin	green with purple line	write with purple at margin	purple	straw, straw with brown line	white, purple
MN6	0	green with purple at margin	green with purple line	write with purple at margin	purple	straw, straw with brown line	white, purple
MN7	3.18	green, green with purple at margin	green, green with purple line	write, write with purple at margin	white, purple	straw, straw with brown line	white, purple

<b>Variety</b>	<b>Infestaion (%)</b>	<b>Leaf Blade color</b>	<b>Leaf sheath color</b>	<b>Ligule color</b>	<b>stigma color</b>	<b>Husk color</b>	<b>Apiculus color</b>
MN8	20.54	green with purple at margin	green with purple line	write with purple at margin	purple	straw, straw with brown line	white, purple
MN9	32.16	green with purple at margin	green with purple line	write with purple at margin	purple	straw, straw with brown line	white, purple
MN10	6.79	green with purple at margin	green with purple line	write with purple at margin	purple	straw, straw with brown line	purple
MN11	0	green with purple at margin	green with purple line	write with purple at margin	purple	straw, straw with brown line	white, purple
MN12	12.04	green with purple at margin	green with purple line	write with purple at margin	purple	straw, straw with brown line	white, purple
MN13	0	green with purple at margin	green with purple line	write with purple at margin	purple	straw, straw with brown line	white, purple
MN14	10.25	green, green with purple at margin	green, green with purple line	write, write with purple at margin	white, purple	straw, straw with brown line	white, purple
MN15	20.67	green with purple at margin	green with purple line	write with purple at margin	purple	straw, straw with brown line	white, purple
MN16	4.36	green with purple at margin	green with purple line	write with purple at margin	purple	straw, straw with brown line	purple
MN17	7.43	green with purple at margin	green with purple line	write with purple at margin	purple	straw, straw with brown line	purple
MN18	0	green, green with purple at margin	green, green with purple line	write, write with purple at margin	white, purple	straw, straw with brown line	white, purple
MN19	21.58	green with purple at margin	green with purple line	write with purple at margin	purple	straw, straw with brown line	white, purple
MN20	9.02	green with purple at margin	green with purple line	write with purple at margin	purple	straw, straw with brown line	white, purple

Variety	Infestaion (%)	Leaf Blade color	Leaf sheath color	Ligule color	stigma color	Husk color	Apiculus color
<b>Check variety</b>							
Muey Nawng 62 M	0	green with purple at margin	green with purple line	write with purple at margin	purple	straw	purple

\*All Muey Nawng accessions and Muey Nawng 62 M showed colorless auricle, 2-cleft ligule shape, erect plant type, green node, green internode, white pericarp and no awning.

## Curriculum Vitae

**Name:** Mr. Prateep Oupkaew

**Birth:** 9 November 1980

### Academic record

Qualification	Area of concentration	Year	Institution
Ph.D. candidate	Crop production*	2003-2009	Chiang Mai University
B.Sc. (Agriculture)	Agronomy	2002	Chiang Mai University
High school		1998	Fakkwan Wittayakom School, Phayao

\* Thesis title "Physiological and Molecular Variation in a Gall Midge Resistant Local Rice Variety, Muey Nawng"

### Scholarships and Awards

1. Scholarship: the Sub Project Graduated Study and Research in Agriculture Biotechnology Chiang Mai University.

2. Scholarship: Ph.D. Teacher Development Scholarship for Burapa University, IT campus at Sakaew (by the Ministry of University Affairs).

3. Best oral presentation: Oupkaew, P., S. Jamjod and B. Rerkasem. 2005. Ecological aspects of gall midge response in rice. A paper presented at AgBiotech

Graduate Conference II May 16-17, 2005 Chulabhorn Research Institute, Bangkok.

(Oral presentation)

4. Poster presentation award: Oupkaew, P., M. Tipwan and B. Rerkasem. 2004. Agronomic and molecular aspects of gall midge response in rice. At RGJ Seminar Series XXVIII, 6-7 May 2004, Imperial Phukaew Hill Resort Khaokho, Petchaboon.

5. Poster presentation award: Oupkaew, P., C. Thayatum., J. Tayutivutikul., S. JamJod and B. Rerkasem. 2006. The reaction of 20 local Muey Nawng Seed lots to six gall different rice gall midge infested in green house condition. At RGJ Seminar Series XLIV: Plant Science Research for Agriculture, 1 September 2006. Chiang Mai University.

6. Poster presentation award: Oupkaew, P., C. Thayatum., J. Tayutivutikul., S. Jamjod and B. Rerkasem. 2007. Responses to Gall Midge Damage of Local Muey Nawng Rice Variety. AgBiotech Graduate Conference III. At The 4th KU-KPS Conference December 7-8, 2007, Kasetsart University Kamphang Saen Campus, Nakhon Pathom.

#### **Publications and Presentations**

Oupkaew, P., Thayatum C Tayutivutikul., Tayutivutikul J., Jamjod S. and Rerkasem B. 2007. Variation in gall midge resistance in Muey Nawng. Variation among accessions of a local rice variety Muey Nawng in responses to gall midge from different locations. Journal of Agriculture (Special volume). 23: 53-58. (In thai)

- Oupkaew, P., Tipwan M. and Rerkasem B. 2004. Gall Midge change in population and degree of infestation of 4 varieties in farmer's fields. *Journal of Agriculture. (In Thai, Accepted)*
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- Oupkaew, P., Thayatum C., Tayutivutikul J., Jamjod S. and Rerkasem B. 2008. Variation in gall midge resistance in a local rice varieties, Muey Nawng. The 2008 Technical Meeting of the Senior Research Scholars' Projects in Field Crops. Golden Beach Hotel, Cha-am, November 21-22, 2008, Phetchaburi, Thailand. (Poster presentation)
- Oupkaew, P., Thayatum C., Tayutivutikul J., Jamjod S. and Rerkasem B. 2007. Responses to Gall Midge Damage of Local Muey Nawng Rice Variety. AgBiotech Graduate Conference III. At The 4<sup>th</sup> KU-KPS Conference December 7-8, 2007, Kasetsart University Kamphang Saen Campus, Nakhon Pathom. (Poster presentation)
- Oupkaew, P., Thayatum C., Tayutivutikul J., Jamjod S. and Rerkasem B. 2007. Variation in gall midge resistance in Muey Nawng. The 2007 Technical Meeting of the Senior Research Scholars' Projects in Field Crops. Ubonrat dam, 14-15 November 2007, Khonkaen, Thailand. (Poster presentation)

- Oupkaew, P., Thayatum C., Tayutivutikul J., Jamjod S. and Rerkasem B. 2006. The Reaction of 20 Local Muey Nawng Seed lots to Six Different Rice Gall Midge Populations in Green House Condition. The 2006 Technical Meeting of the Senior Research Scholars' Projects in Field Crops. Mae Hia Agricultural Research Station and Training Center, Chiang Mai University, Chiang Mai 3-4 December 2006. (Poster presentation)
- Oupkaew, P., Thayatum C., Tayutivutikul J., JamJod S. and Rerkasem B. 2006. The reaction of 20 local Muey Nawng Seed lots to six gall different rice gall midge infested in green house condition. At RGJ Seminar Series XLIV: Plant Science Research for Agriculture, 1 September 2006. Chiang Mai University. (Poster presentation)
- Oupkaew, P., Jamjod S. and Rerkasem B. 2005. Variation in the response to gall midge in gall midge "resistant" Muey Nawng. The 2005 Technical Meeting of the Senior Research Scholars' Projects in field Crops at Hinsuay Namsai Hotel, Amphoe Klang, Rayong 26-27 October 2005. (Oral presentation)
- Oupkaew, P., Jamjod S. and Rerkasem B. 2005. Ecological aspects of gall midge response in rice. A paper presented at AgBiotech Graduate Conference II May 16-17, 2005 Chulabhorn Research Institute, Bangkok. (Oral presentation)
- Oupkaew P., Tipwan M. and Rerkasem B. 2004. Agronomic and molecular aspects of gall midge response in rice. At RGJ Seminar Series XXVIII, 6-7 May 2004, Imperial Phukaew Hill Resort Khaokho, Petchaboon. (Poster presentation)