# APPENDIX

## Statistical analysis

Table 1 Analysis of variance table by randomized complete block AOV of the standard grade 1 fruit weight of cucumber yield in the highland of Northern Thailand between May to July, 2011.

| **Source** | df | SS | MS | F | P |
|---|---|---|---|---|---|
| Replication | 3 | 9.0833 | 3.0278 | | |
| Treatment | 2 | 26.0000 | 13.0000 | 9.55 | 0.0137 |
| Error | 6 | 8.1667 | 1.3611 | | |
| Total | 11 | 43.2500 | | | |
| Coefficient of variance | | | 16.09 | | |

Table 2 Analysis of variance table by randomized complete block AOV of the standard grade 2 fruit weight of cucumber yield in the highland of Northern Thailand between May to July, 2011.

| **Source** | df | SS | MS | F | P |
|---|---|---|---|---|---|
| Replication | 3 | 8.0625 | 2.6875 | | |
| Treatment | 2 | 22.8750 | 11.4375 | 4.39 | 0.0668 |
| Error | 6 | 15.6250 | 2.6042 | | |
| Total | 11 | 46.5625 | | | |
| Coefficient of variance | | | 20.49 | | |

Table 3 Analysis of variance table by randomized complete block AOV of the standard grade U fruit weight of cucumber yield in the highland of Northern Thailand between May to July, 2011.

| **Source** | df | SS | MS | F | P |
|---|---|---|---|---|---|
| Replication | 3 | 1.333333 | 0.44444 | | |
| Treatment | 2 | 0.04167 | 0.02083 | 0.05 | 0.9474 |
| Error | 6 | 2.29167 | 0.38194 | | |
| Total | 11 | 3.66667 | | | |
| Coefficient of variance | | | 21.81 | | |

ลิขสิทธิ์มหาวิทยาลัยเชียงใหม่
Copyright© by Chiang Mai University
All rights reserved

Table 4 Analysis of variance table by randomized complete block AOV of the total marketable fruit weight of cucumber yield in the highland of Northern Thailand between May to July, 2011.

| **Source** | df | SS | MS | F | P |
|---|---|---|---|---|---|
| Replication | 3 | 23.750 | 7.9167 | | |
| Treatment | 2 | 73.625 | 36.8125 | 22.37 | 0.0017 |
| Error | 6 | 9.875 | 1.6458 | | |
| Total | 11 | 107.250 | | | |
| Coefficient of variance | | | 7.23 | | |

Table 5 Analysis of variance table by randomized complete block AOV of the total unmarketable fruit weight of cucumber yield in the highland of Northern Thailand between May to July, 2011.

| **Source** | df | SS | MS | F | P |
|---|---|---|---|---|---|
| Replication | 3 | 268.990 | 89.6633 | | |
| Treatment | 2 | 7.482 | 3.7408 | 0.33 | 0.7316 |
| Error | 6 | 68.145 | 11.3575 | | |
| Total | 11 | 344.617 | | | |
| Coefficient of variance | | | 16.22 | | |

Table 5 Analysis of variance table by randomized complete block AOV of the total fruit weight of cucumber yield in the highland of Northern Thailand between May to July, 2011.

| **Source** | df | SS | MS | F | P |
|---|---|---|---|---|---|
| Replication | 3 | 181.807 | 60.6022 | | |
| Treatment | 2 | 78.482 | 39.2408 | 2.33 | 0.1779 |
| Error | 6 | 100.878 | 16.8131 | | |
| Total | 11 | 361.167 | | | |
| Coefficient of variance | | | 10.64 | | |

ลิขสิทธิ์มหาวิทยาลัยเชียงใหม่
Copyright© by Chiang Mai University
All rights reserved

.

# CURRICULUM VITAE

Author's Name Miss Sutasinee Nontajak

Date/Year of Birth February 17, 1978

Place of Birth Lampang province

Education

1997-2000 Bachelor of Science in Plant Pathology, department of Plant Pathology, Faculty of Agriculture, Chiang Mai University, Chiang Mai, Thailand

2001-2004 Master of Science in Biotechnology, The Graduate School, Chiang Mai University, Chiang Mai, Thailand

Publications

**Nontajak**, S., N,,Jonglaekha, S. Valyasevi, and P., Smitamana. 2014. Detection of cucumber green mottle mosaic Tobamovirus (CGMMV) in three growth stages of Japanese cucumber in the highland area of northern Thailand. Journalof Agricultural Technology 10 (1): 277-287

**Nontajak**, S., **.,** N,,Jonglaekha, S. Valyasevi, and P., Smitamana. 2014. Effect of mixed viruses infection on symptom expression in zucchini (*Cucurbita pepo* L.). Journalof Agricultural Technology 10 (5): xxxx (in press)

Work experience

2005-present Plant Pathologist, Plant Protection Center, The Royal Project Foundation, Chiang Mai, Thailand

ลิขสิทธิ์มหาวิทยาลัยเชียงใหม่
Copyright© by Chiang Mai University
All rights reserved