

See discussions, stats, and author profiles for this publication at:  
<https://www.researchgate.net/publication/263443364>

# Community structure of arthropods in Agusan del Norte lowland ricefields

Article · June 2015

CITATIONS

0

READS

36

1 author:



Rowena P. Varela

Caraga State University

12 PUBLICATIONS 3 CITATIONS

SEE PROFILE

Some of the authors of this publication are also working on these related projects:



Sago (*Metroxylon sagu* Roetb.) for Climate Change Adaptation and Mitigation [View project](#)

All content following this page was uploaded by [Rowena P. Varela](#) on 27 June 2014.

The user has requested enhancement of the downloaded file.

## **Community structure of arthropods in Agusan del Norte lowland ricefields**

Rowena P. Varela<sup>1</sup> and Lina T. Villacarlos<sup>2</sup>

<sup>1</sup>*College of Agricultural Sciences and Natural Resources, Northern Mindanao State Institute of Science and Technology, Ampayon, Butuan City, Philippines; and* <sup>2</sup>*Leyte State University, Baybay, Leyte, Philippines*

### **ABSTRACT**

Varela, R. P. and L. T. Villacarlos. 2006. Community structure of arthropods in Agusan del Norte lowland ricefields. *Ann. Trop. Res.* 28(1):36-47

The structure of insect pests and natural enemies associated with white stem borer (*Scirpophaga innotata* Walker) in the irrigated and rainfed lowland ricefields in Agusan del Norte was studied for two cropping seasons. Sweep net method was used to sample the populations of the various arthropods. More species of arthropods were sampled in rainfed lowland ricefields than in irrigated ricefields, however, difference in the diversity was not significant. Number of species and populations of arthropods were affected by cropping husbandry practices particularly weeding and application of pesticides. Climate did not significantly affect the arthropod diversity due to the erratic climatic conditions at the onset of the El Niño phenomenon.

**Keywords:** community structure, arthropods, lowland rice fields

*Correspondence:* R. P. Varela *Present Address:* College of Agricultural Sciences and Natural Resources, Northern Mindanao State Institute of Science and Technology, Ampayon, Butuan City, Philippines