

HISTORY OF VETIVER USE IN THE PHILIPPINES

The Vetiver Farm Philippines Experience

MARY NOAH S.J. MANARANG
President



VETIVER IN THAILAND



THE EARLY BEGINNINGS



**Trial propagation on idle
rice fields**



THE EARLY BEGINNINGS

Bare root and poly bagged Vetiver propagation



EARLY USE OF VETIVER

Vetiver is reported to have been used in the Philippines as early as the 1930's in slope sugar plantations in San Carlos City



Local Names of Vetiver



**In northern
Luzon and in
Bicol region
Vetiver is known
as:**

- *moras**
- * anias de moras**
- * ilib**

FIRST PROJECT

Kalibo Caticlan
Road-widening
Project



SUBIC-TIPO ROAD OLONGAPO CITY





- **VETIVER PROMOTION AND APPLICATION BY GOVERNMENT AGENCIES**

Department of Public Works and Highways

Slope Protection Project with Vetiver and Coconets



Department of Public Works and Highways

LAHAR DIKE PROTECTION PROJECT





- **VETIVER RESEARCH
COLLABORATIONS WITH
ACADEME AND PRIVATE
SECTOR**

DE LA SALLE UNIVERSITY



Efficacy of Fresh Vetiver Roots and Leaf Extracts against Common Cutworm (*Spodoptera litura* Fabr.) and Asian Corn Borer (*Ostrinia furnacalis* Guenée)



Amyleen A. Agbay
MSc Entomology

ABSTRACT

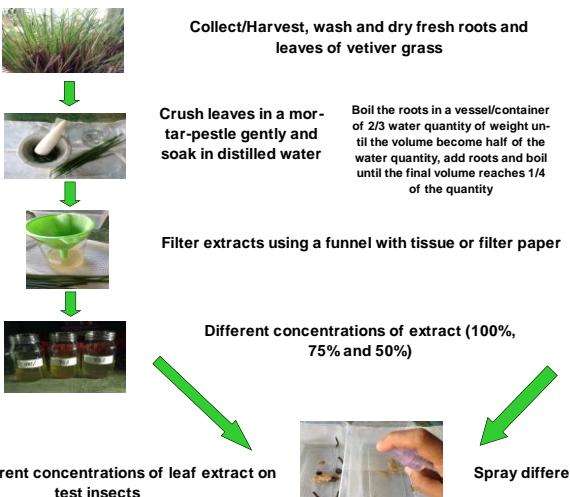
Fresh roots and leaves of vetiver were extracted by boiling and crushing methods, respectively. Toxicity of vetiver extractions were examined on asian corn borer and common cutworm under controlled conditions. Spraying of extracts was done to test the efficacy of fresh vetiver root and leaf extract against common cutworm and asian corn borer. Different concentrations of vetiver extracts (100%, 75%, and 50%) using distilled water as a solvent, were used in this study. Mortality was observed daily for 24, 48 and 72 hours. It was observed that mortality of common cutworm is higher on 75% concentration with 67% mortality on both fresh root and leaf extracts. On the contrary, mortality of asian corn borer only obtained 12% on leaf extract and % on root extract at 100% concentration; 7% on leaf and root extracts at 75% concentration; and 8% and 3% on leaf and root extract, respectively at 0% concentration.

OBJECTIVES

1. To determine the efficacy of vetiver root and leaf extracts against common cutworm and asian corn borer.
2. To compare the mortality of common cutworm and asian corn borer in various concentration of fresh vetiver root and leaf extracts.

MATERIALS AND METHODS

A. Fresh Leaf extract



B. Fresh Root extract



Observe daily for 24, 48 and 72 hours

Results and Discussion

Toxicities of fresh vetiver leaf extract against asian corn borer and common cutworm were shown in Tables 1 and 2. The results demonstrate that mortality of asian corn borer at different concentrations of 50%, 75% and 100% attained 8%, 7% and 12%, respectively. This result indicates lower efficacy of fresh vetiver leaf extract against asian corn borer. On the contrary, fresh leaf extract showed higher efficacy against common cutworm with 63%, 67% and 42% mortality at 50%, 75% and 100% concentrations, respectively (Table 2).

VETIVER on AQUAPONICS

Vetiver on Aquaponics is a water management strategy to minimize water issues while maximizing efficient use of water characterized by the symbiotic growing of plants (vetiver grass) and aquatic animals in one system.



The pangasius intensive culture project of the LSPU Los Baños Campus College of Fisheries at Los Baños Laguna with nine (9) units of circular concrete tanks (6.5 m^3 capacity) stocked with pangasius fingerlings at varying densities of 300, 450 and 600 fish as study treatments I (tanks 2,5,9), treatment II (tanks 1,3,7), treatment III (tanks 4,6,8) respectively.



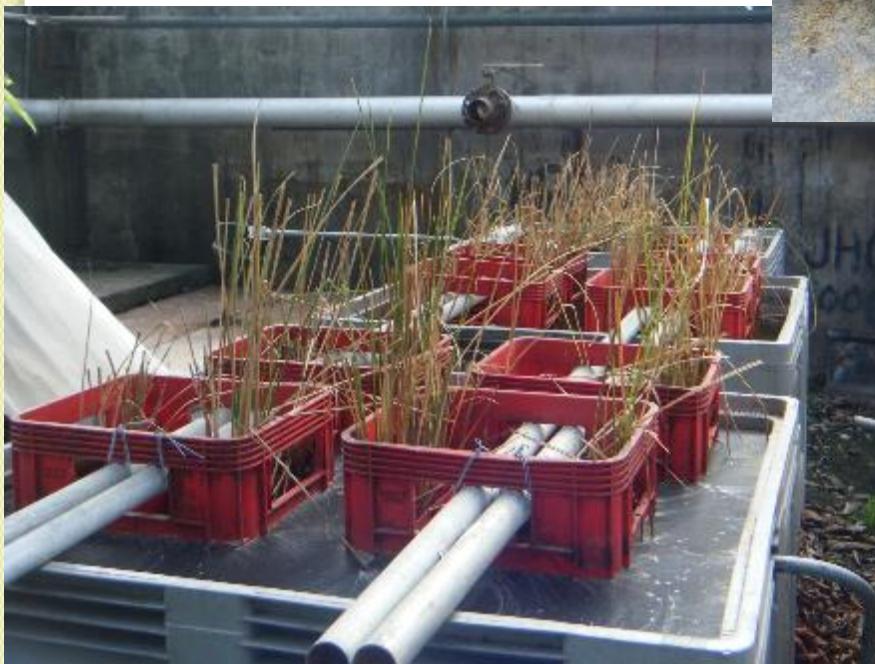
A bamboo pontoon (1mx1m) installed last January 24, 2014 in each fish production tanks. Each pontoon was planted with 6 balls of vetiver grass at 10-15 shoots per balls.



Vetiver pontoon in tank 8 with newly grown leaves shoots and roots after one month of treatment.

The vetiver grows new shoots and green leaves with the highest count of 118 in tank 4 followed by 113 (tank 8), 100 (tank 6). These tanks were stocked with the highest density of pangasius. A 100% survival rate of vetiver grass was obtained in all the pontoon installed.

ASIA BREWERY



SL AGRITECH HYBRID RICE





VETIVER IN MEDIA

PRINT & ONLINE



The Manila Bulletin homepage features a large banner at the top with the text "There is good news here!" and "MANILA BULLETIN". Below the banner are links for "HOME", "NEWS", "BUSINESS", "SPORTS - ENTERTAINMENT", "LIFESTYLE", "TECHNEWS", "OTHERS", and "EPAPER". A "MANILA BULLETIN CLASSIFIEDS JOB FAIR" section is also present. The main article is titled "Create a facebook profile" with a "Sign Up" button. The article is about Noah Manarang, President and CEO of Vetiver Farms, Incorporated. It includes a photo of Noah Manarang and a sidebar with related posts. The right side of the page shows a photograph of Noah Manarang sitting with Senator Ferdinand Marcos, Jr., during an interview.

Noah Manarang

President and CEO Vetiver Farms, Incorporated

by Regina Abuyuan
March 2, 2014

Share this:

Mention "grass"—vetiver grass, that is—and Mary Noah Manarang's eyes will light up like a 1,000-megawatt lamp. She knows the grass inside-out, and has built a flourishing and highly relevant business from it. The fact that there are only 90 Class 1 Vetiver Technical Consultants in the world, and she is the first and only Filipino in the roster, helps plenty.

The "Vetiver Queen of the Philippines" was, in fact, the 51st to be certified worldwide by the governing body, Vetiver Network. Manarang ranks "1" on all fields of expertise—Vetiver propagation; Slope Stabilization; Erosion Control, and Rehabilitation of Contaminated Lands.

Past and current clients include almost all of the land developers and contractors in the Philippines—Ayala Land Inc., Sumitomo Corporation, Philex Mining, Inc., Tagaytay Highlands, Department of Public Works and Highways, among others. Her company has exported the grass to Brunei, as well.

It's hard to catch Manarang on a regular day; just like a farmer, she's up early and often off to check on her plants and projects outside Metro Manila. This March 5 to 7, though, she'll be staying put at the Hotel Intercontinental in Makati City, as her company hosts the first ever Philippine Vetiver Congress. Businessmen, LGUs, property developers, and environmental practitioners would do

Manarang (right) with Sen. Ferdinand Marcos, Jr., who will be keynote speaker during the first PhilVetCon. Marcos is chair of



Manarang (right) with Sen. Ferdinand Marcos, Jr., who will be keynote speaker during the first PhilVetCon. Marcos is chair of

TELEVISION AND RADIO

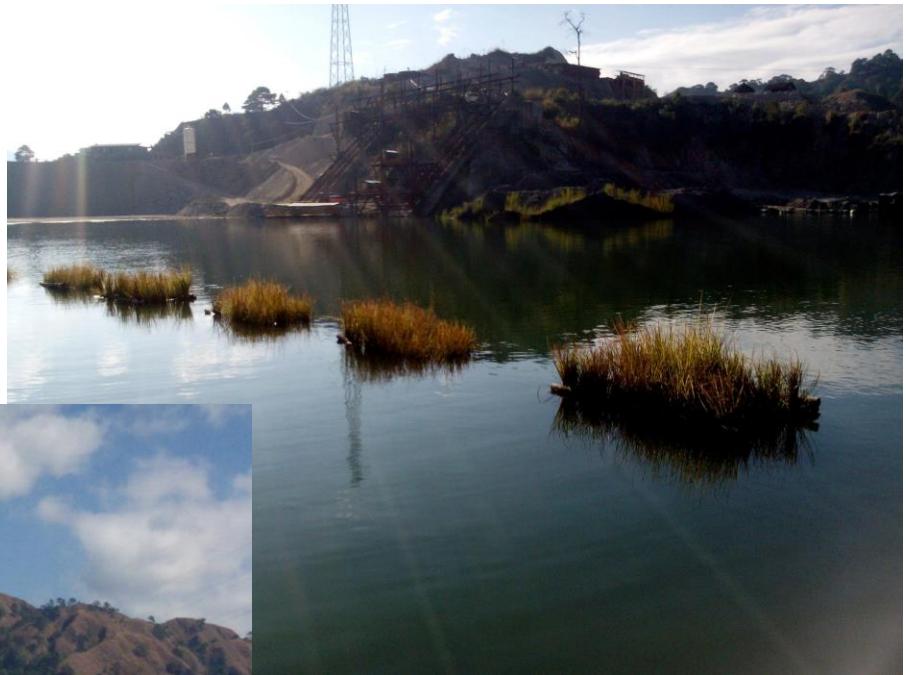




- **VETIVER USE BY
VARIOUS INDUSTRIES**

MINING

PHILEX MINING



MINING

FCF MINING CORPORATION



REAL ESTATE INDUSTRY

MIXED USE RESIDENTIAL AND LEISURE DEVELOPMENT



POWERPLANTS

MAIBARARA GEOTHERMAL POWER PLANT



RESORT DEVELOPMENT

Ananyana Resort





VETIVER PRODUCTS

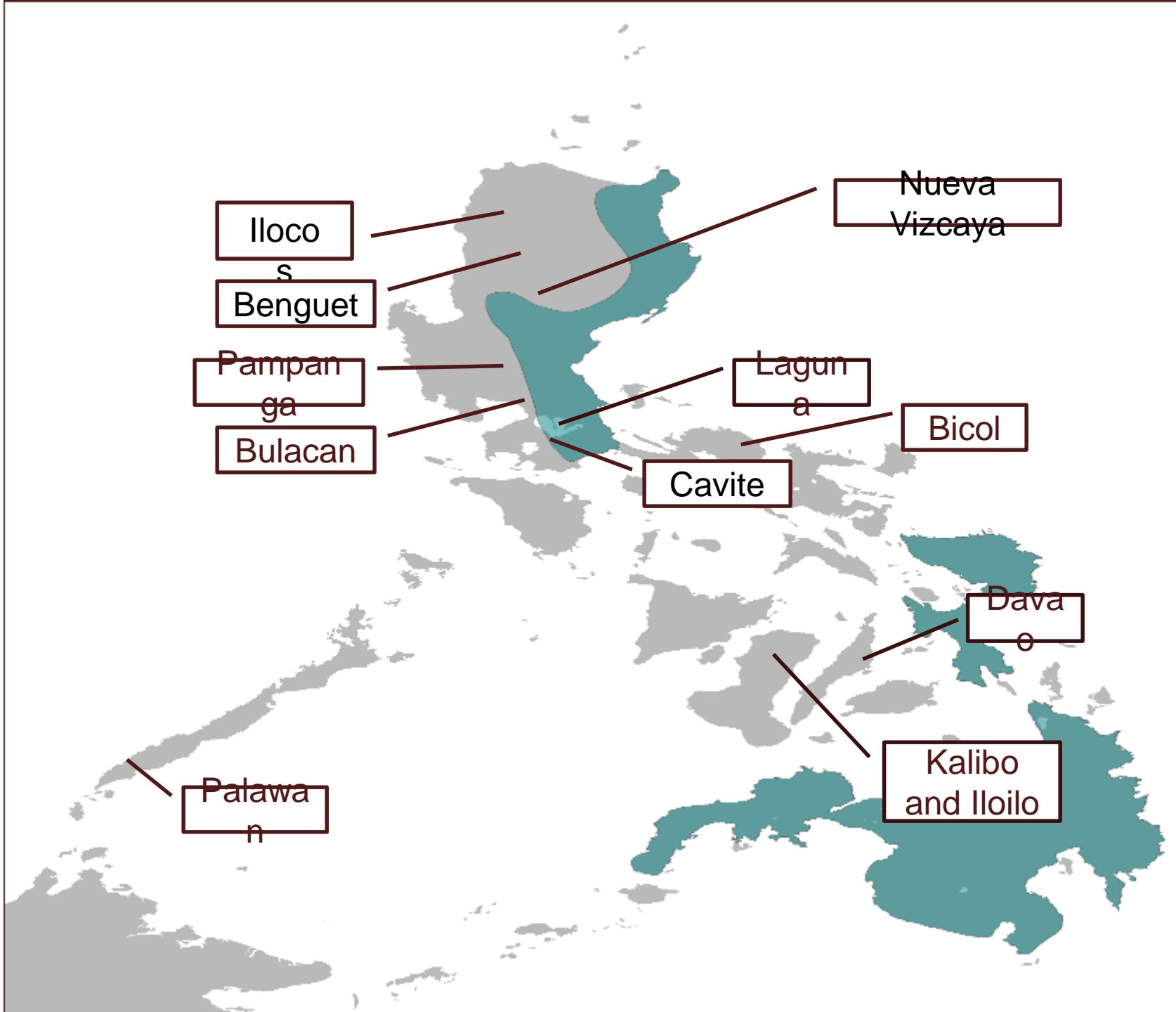
HANDICRAFTS & DECORS



ESSENTIAL OILS



VETIVER ACROSS THE COUNTRY: PROJECTS AND NURSERIES



For More Information:



vetiverqueen@gmail.com



VetiverFarmsPhilippines



VetiverFarmsPhilippines



VetiverFarmsPhilippines



VetiverQueen