INFORMATION BULLETIN

**ISSUE NO. 5 AUGUST 2008** (FOCUS ON NONI)

# **COLLEGE OF MICRONESIA-FSM** YAP CAMPUS

## AGRICULTURAL EXPERIMENT STATION

### **Pests and Diseases** of Noni

Just like any other plant, noni is pearance, i.e., visible concentric also susceptible to pests and diseases. Yield can be significantly reduced by pests and diseases. Combating these problems more effectively and with innovative methods will severe during warm, help improve crop yields. It can also improve environmental health by reducing the application of any chemicals. Some of the most common pest and diseases problems found in noni plants in Yap are detailed be- spread of this disease. low.

Anthracnose is a common leaf spot disease that is caused by a plant pathogenic fungus called Colletotrichum, favored by humid



climate. The disease is characterized by tan colored lesions with typical "target spot" aprings in the lesions. Infected leaves may fall off prematurely. Fruits and stems are not susceptible to this fungal infection. Noni anthracnose is usually weather and high relative humidity. Symptoms are often most severe within dense canopies. Therefore, adequate plant spacing and cautious pruning are best way to control the

Croton caterpillar - (Achaea janata) - This is a very common pest on noni seedlings in nursery. Caterpillars feed on leaves and if unnoticed, can consume the entire foliage of a plant within a day or two. Se- and caterpillars emerge from vere infestation results in eggs within few days. Physical stunted growth of seedlings. means of control measures like Adult moth is widespread hand-picking and destruction is throughout the tropical and effective in nursery setting. subtropical Pacific and has a wide host range. It lays several

eggs under developing leaves





Caterpillar feeds on the leaf (above). Adult moth (inset) lays hundreds of eggs at a time (below)

..contd. on Page 2



#### **Pest and Disease Management**

Generally mere presence of pests does not spell trouble. In a diversified garden (mixed planting like in agro forest), most insect pests are kept in check by natural forces (such as predators and weather). Only when pests reach seriously damaging levels do we have an indication that natural controls are temporarily unbalanced - suggesting temporary intervention by the grower. Because of this natural system of checks

and balances in a garden, it makes sense to determine which form of intervention will return the situation to a normal balance with the least risk of also destroying the helpful ( as well as harmless) organisms that maintain the equilibrium. Our action choices range from doing nothing (giving nature a chance to correct the imbalance), to using restraints (repelling or physically destroying the damagers), to biological controls (improving the helpful side of nature's control system), to chemical controls.



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Sweet potato hornworm (Agrius convolvuli) - is yet another leaf destructing common



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and not too much,

would have found the

safest way to health."

Hippocrates

ather of Medicine

exercise, not too little

pest encountered in our nursery. Caterpillars feed on foliage, leaving large gaping holes in the leaves with just veins and leaf stalk. Again, hand-picking and destruction of caterpillars found to be most effective in nursery. (to be continued in the next issue)

#### Medicinal plants for life

based upon the number of indi- \$500 million annually in sales. cations reported and the breadth Modern scientists identified over also owes a great deal to medici-160 chemical compounds in noni nal plants. and the list grows constantly as As many as they characterize new molecules. 50 percent Robert Keith-Reid, one of the late of prescripmost respected journalists of the tion drugs South Pacific region once quoted, are based "medicinal plants like noni are on a moleremedy for Pacific Islands' eco- cule that occurs naturally in a

China and other countries. Utah-Noni is arguably the most impor- based Tahitian Noni Internatant medicinal plant in Pacific, tional claims it brings in close to

of usage across various cultures. Allopathic or 'modern' medicine



nomic ills." With renewed inter- plant, with some 25 percent of ests for herbal products, demand prescription drugs derived difor noni is expanding in Japan, rectly from flowering plants or Korea, Taiwan, Germany, Spain, modeled on plant molecules.

#### Complementary and Alterna- a whole-health strategy, which includes regular tive Medicine

CAM is a group of diverse medical and health care systems, practices, and products that are not presently considered to be part of standard care. Standard care is what medical doctors and allied health professionals, such as registered nurses and physical therapists, practice.

Alternative medicine means treatments that you use instead of standard ones. Complementary medicine means nonstandard treatments that you use along with standard ones. Examples of CAM therapies are acupuncture, chiropractic, herbal medicines, naturopathy, traditional medicine and homoeopathy.

The best way to achieve and maintain health is by developing

exercise, a good diet and overall healthy living. CAM may offer you additional help in achieving your health goals, whether you use it as a substitute for a conventional remedy or in conjunction with mainstream medicine. Noni is one such multipurpose CAM treatment that has received considerable attention in recent years. Stay healthy!

Biologically Manipulative and body-based based approaches Massage Chiropractic Osteopathy Common Magnets Mind-body Energy Alternative

Disclaimer: The information provided in this information sheet is meant for educational purpose only. For any medical conditions, always consult a qualified medical practitioner.

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