STUDY GUIDELINES FOR PERMIT EXAM MBF (MOSQUITO AND BITING FLY CONTROL)

SOME INFORMATION YOU SHOULD HAVE KNOWLEDGE OF BEFORE TAKING PERMIT EXAMINATION FOR MOSQUITO AND BITING FLY CONTROL.

This outline may be used as a study guide for the permit examination (Category MBF), Mosquito and Biting Fly Control. The Mississippi Bureau of Plant Industry is providing a list of suggested references and this outline as aids in studying for the Permit examination. Truman's Scientific Guide to Pest Control and the MSU Extension Service Publications are excellent references. Other entomological references specifically dealing with the pest control industry may also prove helpful. The use of the World Wide Web can provide a wealth of information and may be helpful in increasing your knowledge of the listed topics. Web sites from universities, extension, pest management societies and sites devoted to specific insects and pests may provide detailed information. A copy of the Regulations Governing Commercial Insect, Rodent, Plant Disease and Weed Control Work can be found at The Mississippi Department of Agriculture and Commerce, Bureau of Plant Industry website, http://www.mdac.ms.gov/wpcontent/uploads/11-Regulation-of-Professional-Services.pdf.

Please note that you should be familiar with the topics and ID in this outline, but there is no guarantee that all of the topics and ID listed, or only the topics and ID listed will be included on any Permit examination.

 You should be thoroughly familiar with Bureau of Plant Industry Regulations Governing Commercial Insect, Rodent, Plant Disease and Weed Control Work. Topics include, but are not limited to:

Definitions
Licensing/Permit requirements
Licensing/Permit renewal requirements
Issuance of a Permit
Registered technician standards
Violations
Record keeping requirements
Bond and insurance requirements
Equipment

2. Insects. Structure, function and development

External morphology. Head, thorax and abdomen. Internal morphology including respiratory, circulatory, nervous, excretory, digestive, muscular, and reproductive systems

Metamorphosis: none, gradual, incomplete, or complete.

3. Mosquitoes

Common species found in Mississippi
Be familiar with common species such as but not limited to:

Culex quinquefasciatus – southern house mosquito Aedes albopictus – Asian tiger mosquito Anopheles spp.

Toxorhynchites spp.

Psorophora spp.

Life cycle
Feeding habits of males and females
Hosts (mammals, reptiles, amphibians, birds, etc.)
Habitats
Diseases transmitted by
West Nile virus (primary vector in MS; peak timing)
Management strategies
Integrated Mosquito Management
Adulticiding
Larviciding

4. Biting flies

Life cycle
Hosts
Diseases transmitted by
Tularemia
Match family names to common names
Ceratopogonidae
Muscidae
Psychodidae
Simuliidae
Tabanidae
Control strategies

CDC gravid trap