

WEST VIRGINIA LEGISLATURE
Legislative Rule-Making Review Committee



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July 25, 1978

FILED IN THE OFFICE OF
SECRETARY OF STATE
THIS DATE 7-26-78

Hon. A. James Manchin
Secretary of State
W-151 State Capitol
Charleston, West Virginia 25305

Dear Mr. Manchin:

This is notification of approval of rules and regulations in accordance with Section 11, Article 3, Chapter 29A of the West Virginia Code.

On July 17, 1978, the Legislative Rule-Making Review Committee approved regulations submitted by the Department of Agriculture concerning pseudorabies and restricted use pesticide list. The committee also approved revocation by the Department of Health of regulations for mobile intensive care paramedics.

A copy of the approved regulations is attached.

Very truly yours,

Robert M. Steptoe

Robert M. Steptoe

William E. Shingleton

William E. Shingleton

Enclosures

WEST VIRGINIA PESTICIDE
USE AND APPLICATION ACT OF 1975
CHAPTER 19 ARTICLE 16B

REGULATIONS

SECTION 4 — RESTRICTED USE PESTICIDES

4.02 West Virginia Restricted Use Pesticide List

The following pesticides are hereby declared to be Restricted to use by applicators Certified to use Restricted Use Pesticides:

<u>ACTIVE INGREDIENT</u>	<u>FORMULATION</u>	<u>USE PATTERN</u>	<u>CLASSIFICATION</u>	<u>CRITERIA INFLUENCING RESTRICTION</u>
<u>Acrolein</u>	<u>As sole active ingredient. No mixtures registered.</u>	<u>All uses</u>	<u>Restricted</u>	<u>Inhalation hazard to humans. Residue effects on avian species and aquatic organisms.</u>
<u>Acrylonitrile</u>	<u>In combination with carbon tetrachloride. No registrations as the sole active ingredient.</u>	<u>All uses</u>	<u>Restricted</u>	<u>Other hazards-accident history of both acrylonitrile and carbon tetrachloride products.</u>
<u>Aldicarb</u>	<u>As sole active ingredient. No mixtures registered.</u>	<u>Ornamental uses (indoor and outdoors). Agricultural crop uses</u>	<u>Restricted</u> <u>Under further evaluation</u>	<u>Other hazards - accident history</u>
<u>Allyl alcohol</u>	<u>All formulations.</u>	<u>All uses</u>	<u>Restricted</u>	<u>Acute dermal toxicity.</u>

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<u>Alumir phosphide</u>	<u>As sole active ingredient. NO mixtures registered.</u>	<u>All uses</u>	<u>Restricted</u>	<u>Inhalation hazard to humans.</u>
<u>Azinphos methyl</u>	<u>All liquids with a concentration greater than 13.5 pct.</u> <u>All other formulations.</u>	<u>All uses</u> <u>All uses</u>	<u>Restricted</u> <u>Under further evaluation.</u>	<u>Inhalation hazard to humans.</u>
<u>Calcium cyanide</u>	<u>As sole active ingredient. NO mixture registered.</u>	<u>All uses</u>	<u>Restricted</u>	<u>Inhalation hazard to humans.</u>
<u>Demeton</u>	<u>1 pct fertilizer formulation, 1.985 pct. granular formulation.</u> <u>All granular formulations, emulsifiable concentrates and concentrated solutions.</u>	<u>All uses, including domestic uses.</u> <u>All uses</u>	<u>Restricted</u> <u>Restricted</u>	<u>Domestic uses: Acute oral toxicity.</u> <u>Acute dermal toxicity.</u> <u>Nondomestic outdoor uses. Residue effects on avian and mammalian species.</u> <u>Acute dermal toxicity. Residue effects on mammalian and avian species.</u>
<u>Endrin</u>	<u>All emulsions, dusts wettable powders, pastes, and granular formulations 2 pct. and above.</u> <u>All concentrations less than 2 pct.</u>	<u>All uses</u> <u>All uses</u>	<u>Restricted</u> <u>Restricted</u>	<u>Acute dermal toxicity. Hazard to non-target organisms.</u> <u>Hazard to nontarget organisms.</u>

<u>Ethyl methion</u>	<u>All granular and dust formulations greater than 2 pct, fertilizer formulations, wettable powders, emulsifiable concentrates, suspensions concentrated solutions.</u> <u>Smoke fumigants.</u> <u>Dust and granular formulations 2 pct and below.</u>	<u>All uses</u>	<u>Restricted</u>	<u>Inhalation hazard to humans. Acute dermal toxicity. Residue effects on mammalian, aquatic, avian species.</u>
<u>Ethylene oxide</u>	<u>10% Ethylene oxide</u> <u>90% Carbon Dioxide</u> <u>Under WVDA label OXICARB</u>	<u>Fumigation of disease infested bees and bee equipment.</u>	<u>Restricted</u> <u>Use restricted to certified WVDA employees only.</u>	<u>Inhalation hazard</u>
<u>Fluoroacetamide/1081</u>	<u>As sole active ingredient in baits. No mixtures registered.</u>	<u>All uses</u>	<u>Restricted</u>	<u>Acute oral toxicity.</u>
<u>Hydrocyanic acid</u>	<u>As sole active ingredient. No mixtures registered.</u>	<u>All uses</u>	<u>Restricted</u>	<u>Inhalation hazard to humans.</u>
	<u>All uses</u>	<u>Restricted</u> <u>Restricted</u>	<u>Inhalation hazard to humans.</u> <u>Other hazards-accident history.</u>	

<u>Methyl bromide</u> (cont)	<p>Containers with not more than 1.5 lb of methyl bromide with 0.25 pct to 2.0 pct chloropicrin as an indicator.</p> <p>Container with not more than 1.5 lb having no indicator.</p>	<p>Single applications (non-domestic use) for soil treatment in closed systems.</p> <p>All uses</p>	<p>Unclassified</p> <p>Restricted</p>	<p>Other hazards-accident history.</p>
<u>Methyl parathion</u>	<p>All dust and granular formulations less than 5 pct.</p> <p>Microencapsulated</p> <p>All dust and granular formulations 5 pct and greater and all wettable powders and liquids.</p>	<p>All uses</p> <p>All uses</p> <p>All uses</p>	<p>Restricted</p> <p>Restricted</p> <p>Restricted</p>	<p>Other hazards-accident history. All foliar applications restricted based on residue effects on mammalian and avian species.</p> <p>Residue effects on avian species.</p> <p>Hazard to bees.</p> <p>Acute dermal toxicity. Residue effects on mammalian and avian species.</p>
<u>Mevinphos</u>	<p>All emulsifiable concentrates and liquid concentrates</p> <p>Psycodid filter fly liquid formulations.</p> <p>2 pct dusts</p>	<p>All uses</p> <p>All uses</p> <p>All uses</p>	<p>Restricted</p> <p>Restricted</p> <p>Restricted</p>	<p>Acute dermal toxicity. Residue effects on mammalian and avian species.</p> <p>Acute dermal toxicity.</p> <p>Residue effects on mammalian and avian species.</p>

<u>Methyl</u>	<u>As sole active ingredient in 1 pct to 2.5 baits (except 1 pct fly bait).</u> <u>All concentrated solution formulations.</u> <u>90 pct wettable powder formulations (not in water soluble bags).</u> <u>90 pct wettable powder formulation in water soluble bags.</u> <u>All granular formulations</u> <u>25 pct wettable powder formulations.</u> <u>In 1.24 pct to 2.5 pct dusts as sole active ingredient and in mixtures with fungicides and chlorinated hydrocarbon, inorganic phosphate and biological insecticides.</u>	<u>Nondomestic outdoors-agricultural crops, ornamental and turf. All other registered uses.</u>	<u>Restricted</u>	<u>Residue effects on mammalian species.</u>
			<u>Restricted</u>	<u>Other hazards-accident history.</u>
			<u>Restricted</u>	<u>Other hazards-accident history.</u>
			<u>Unclassified</u>	<u>Other hazards-accident history.</u>
			<u>Unclassified</u>	
			<u>Unclassified</u>	
<u>Methyl bromide</u>	<u>All formulations in containers greater than 1.5 lb.</u>	<u>All uses</u>	<u>Restricted</u>	<u>Other hazards-accident history.</u>

Paraquat (dichloro-
ride) and para-
quat bis(methyl
sulfate)

All formulations and concentrations except those listed below.
Pressurized spray formulations containing 0.44 pct Paraquat bis(methyl sulfate and 15 pct petroleum distillates as active ingredients.
Liquid fertilizers containing concentrations of 0.025 pct paraquat dichloride and 0.03 percent atrazine;
0.03 pct paraquat dichloride and 0.37 pct atrazine, 0.04 pct paraquat dichloride and 0.49 pct atrazine.

All uses
Spot weed and grass control

Restricted
Unclassified
Unclassified

Other hazards. Use as an accident history, human toxicological data.

Picloram

All formulations and concentrations except Tordon 101 R and other EPA Registered labels of the same formulation.

All uses

Restricted

Hazard to non-target organisms (specifically non-target plants both crop and non-crop; and aquatic organisms). It should be noted that in addition to the above criteria considerable emphasis for restriction was based on the existing stewardship program restricting certain uses by the principal registrant and recurring reports of phytotoxicity to such economically important crops as tomatoes, potatoes, tobacco, legumes and succulent ornamentals caused by contaminated water supplies (1 ppb range) from runoff and leaching.

<u>Picloram cont'd</u>	<u>Tordon R</u> <u>Forestry Herbicide containing 5.4% Picloram and 20.9% 2,4-D.</u>	<u>Control of unwanted trees by cut surface treatment.</u>	<u>Unclassified</u>
<u>Sodium cyanidel</u>	<u>All capsules and ball formulations.</u>	<u>All uses</u>	<u>Restricted</u> <u>Inhalation hazard to humans.</u>
<u>Sodium fluoroacetate</u>	<u>All solutions and dry baits</u>	<u>All uses</u>	<u>Restricted</u> <u>Acute oral toxicity. Hazard to nontarget organisms. Use and accident history.</u>
<u>Strychnine</u>	<u>All dry baits, pellets and powder formulations greater than 0.5 pct.</u> <u>All dry baits, pellets and powder formulations.</u> <u>All dry baits, pellets and powder formulations 0.5 pct and below.</u> <u>All dry baits, pellets and powder formulations 0.5 pct and below.</u>	<u>All uses</u> <u>All uses calling for burrow builders.</u> <u>All uses except subsoil</u> <u>All subsoil uses</u>	<u>Restricted</u> <u>Restricted</u> <u>Restricted</u> <u>Unclassified</u> <u>Hazard to nontarget organisms. Hazard to nontarget avian species. Use and accident history.</u> <u>Hazard to nontarget organisms.</u> <u>Hazard to nontarget organisms.</u> <u>Hazard to nontarget organisms.</u>
<u>Sulfostepp</u>	<u>Sprays and smoke generators.</u>	<u>All uses</u>	<u>Restricted</u> <u>Inhalation hazard to humans.</u>

Tepp

Emulsifiable
concentrate
formulations.

All uses

Restricted

Inhalation hazard to humans. Do not use on
hazardous humans. Residue effects on
mammalian and avian species.

1 (NOTE - M-44 sodium cyanide capsules may only be used by certified applicators who have also taken the required
additional training.)

SECTION 3 - - - DEFINITIONS

3.01 For the purpose of these regulations, the definitions shall be the same as those appearing in the West Virginia Pesticide Use and Application Act (19-16B-3) with the following additions:

a. The term "accident" means an unexpected, undesirable event, resulting in the presence of a pesticide, that adversely effects man or the environment.

b. The term "Act" means the West Virginia Pesticide Use and Application Act (19-16B).

c. The term "competent" means properly qualified to perform functions associated with pesticide application, the degree of capability required being directly related to the nature of the activity and the associated responsibility.

d. The term "fumigant" means a gaseous or readily volatizable chemical (as hydrogen cyanide or methyl bromide) used as a disinfectant or pesticide.

e. The term "regulated pest" means a specific organism considered by the state or by a Federal Agency to be a pest requiring regulatory restrictions, regulations or control procedures in order to protect man or the environment.

f. The term "fumigation" means the application of a fumigant to one or more rooms in a structure, or to the entire structure, or to a localized space within a structure or outside of a structure such as a box car, aircraft, truck, ship or any object sealed or covered.

SECTION 4 - - - RESTRICTED USE PESTICIDES

4.01 This section reserved for the West Virginia Restricted Use Pesticide List.

SECTION 5 - - - CATEGORIZATION OF COMMERCIAL (including LICENSED) APPLICATORS

5.01 PROCEDURE

Categories and sub-categories of applicators (other than private applicators) who use or supervise the use of restricted use pesticides or who are LICENSED APPLICATORS under the law are identified below. Public employees using or supervising the use of restricted use pesticides shall be categorized as LICENSED PUBLIC OPERATORS in the categories and sub-categories identified below.

5.02 AGRICULTURAL PEST CONTROL

5.02(a) AGRICULTURAL PLANT PEST CONTROL CATEGORY

This category includes commercial applicators using or supervising the use of restricted use pesticides or licensed applicators using any pesticide

in the production of agricultural crops, including without limiting the foregoing, tobacco, peanuts, cotton, feed grains, soybeans and forage; vegetables; small fruits; tree fruits and nuts; as well as on grasslands and non-crop agricultural lands.

SUB-CATEGORY A-1 AGRICULTURAL PLANT PEST CONTROL AERIAL APPLICATOR

This sub-category includes commercial applicators using or supervising the use of restricted use pesticides or licensed applicators using any pesticide applied by any type of aircraft in the production of agricultural crops, including without limiting the foregoing, tobacco, peanuts, cotton, feed grains, soybeans and forage; vegetables; small fruits; tree fruits and nuts; as well as on grasslands and non-crop agricultural lands.

5.02(b) ANIMAL PEST CONTROL

This category includes commercial applicators using or supervising the use of restricted use pesticides or licensed applicators using any pesticide on swine, sheep, horses, goats, poultry and livestock, and to places on or in which animals are confined.

Doctors of Veterinary Medicine engaged in the business of applying pesticides for hire, or publicly holding themselves out as pesticide applicators, are included in this category.

5.03 FOREST PEST CONTROL CATEGORY

This category includes commercial applicators using or supervising the use of restricted use pesticides or licensed applicators using any pesticide in forests, forest nurseries, and forest seed producing areas.

SUB-CATEGORY A - AERIAL FOREST PEST CONTROL

This category includes commercial applicators using or supervising the use of restricted use pesticides or licensed applicators using any pesticide applied by any type of aircraft in forests, forest nurseries, and forest seed producing areas.

5.04 ORNAMENTAL AND TURF PEST CONTROL CATEGORY

This category includes commercial applicators using or supervising the use of restricted use pesticides or licensed applicators using any pesticide to control pests in the maintenance and production of ornamental trees, shrubs, flowers and turf.

SUB-CATEGORY A - AERIAL ORNAMENTAL AND TURF PEST CONTROL

This category includes commercial applicators using or supervising the use of restricted use pesticides or licensed applicators using any pesticide applied by any type of aircraft to control pests in the maintenance and production of ornamental trees, shrubs, flowers and turf.

5.05 SEED TREATMENT CATEGORY

This category includes commercial applicators using or supervising the use of restricted use pesticides on seeds.

5.06 AQUATIC PEST CONTROL CATEGORY

This category includes commercial applicators using or supervising the use of any restricted use pesticide or licensed applicators using any pesticide purposefully applied to standing or running water, excluding applicators engaged in public health related activities included in category 5.10A below.

SUB-CATEGORY A - AERIAL AQUATIC PEST CONTROL

This category includes commercial applicators using or supervising the use of any restricted use pesticide or licensed applicators using any pesticide purposefully applied by means of any type of aircraft to standing or running water.

5.07 RIGHT-OF-WAY PEST CONTROL CATEGORY

This category includes commercial applicators using or supervising the use of restricted use pesticides or licensed applicators using any pesticide in the maintenance of roads, electric powerlines, pipelines, railway rights-of-way or other similar areas.

SUB-CATEGORY A - AERIAL RIGHT-OF-WAY PEST CONTROL

This category includes commercial applicators using or supervising the use of restricted use pesticides or licensed applicators using any pesticide applied by any type of aircraft in the maintenance of roads, electric powerlines, pipelines, railway rights-of-way or other similar areas.

5.08 INDUSTRIAL, INSTITUTIONAL, STRUCTURAL AND HEALTH RELATED PEST CONTROL

Commercial or licensed applicators in this category are sub-categorized as follows:

A. GENERAL PEST CONTROL

This sub-category includes commercial applicators using or supervising the use of restricted use pesticides or licensed applicators using any pesticide in, on, or around food handling establishments, human dwellings, institutions such as schools and hospitals, industrial establishments, including warehouses and grain elevators, and any other structures and adjacent areas, public or private; and for the protection of stored, processed, or manufactured products except that this sub-category does not include applicators using fumigants (other than fumigants used out-of-doors in rodent borrows that do not lead into dwellings or other structures) nor does it include applicators engaged in termite or other structural pest control.

Treating emergence crevices or ant runways to control carpenter ants or treatments made to control carpenter bees or surface application of sprays to control wood borers in furniture or lumber shall not be considered to be structural pest control.

B. STRUCTURAL PEST CONTROL

This sub-category includes commercial applicators using or supervising the use of restricted use pesticides of licensed applicators using any pesticide to control termites, powder post beetles, or other wood-destroying pests infesting human dwellings, schools, hospitals, stores, warehouses or any other structure and adjacent areas.

C. FUMIGATION PEST CONTROL

This sub-category includes commercial applicators using or supervising the use of restricted use pesticides or licensed applicators using any pesticide to fumigate human dwellings, schools, hospitals, stores, warehouses, grain elevators, or any other structure including box cars, trucks, automobiles, shipping containers, boats, barges or ships, or other similar objects as well as commodities such as lumber, hay or straw, food products, soil, bags or other objects whether they are in structures or fumigated out-of-doors.

5.09 DEMONSTRATION AND RESEARCH PEST CONTROL CATEGORY

5.09 (a) DEMONSTRATION PEST CONTROL

This sub-category includes individuals who demonstrate to the public the proper use and techniques of application of restricted use pesticides or supervise such demonstration.

5.09(b) RESEARCH PEST CONTROL

This sub-category includes persons conducting field research with pesticides, and in doing so, use or supervise the use of restricted use pesticides.

Included in the Demonstration Pest Control category are such persons as extension specialists and county agents, commercial representatives demonstrating pesticide products, and those individuals demonstrating methods used in public programs. The Research Pest Control category includes: state, federal, commercial and other persons conducting field research on or utilizing restricted use pesticides.

5.10 LICENSED PUBLIC OPERATOR CATEGORY

In addition to the categories and sub-categories identified above in which a public employee under the law may be classified, the following additional sub-categories are identified below.

SUB-CATEGORY A - PUBLIC HEALTH PEST CONTROL

This sub-category includes state, federal or other governmental employees using or supervising the use of restricted use pesticides in public health programs for management and control of pests having medical and public health importance.

SUB-CATEGORY B - REGULATORY PEST CONTROL

This sub-category includes state, federal or other governmental employees who use or supervise the use of restricted use pesticides in the control of regulated pests.

5.11 OTHER CATEGORIES OR SUB-CATEGORIES

The commissioner may, after a public hearing, add additional categories of sub-categories as needed for the certification of commercial or licensed applicators.

SECTION 6 - - - STANDARDS FOR CERTIFICATION OF COMMERCIAL
(including LICENSED PUBLIC OPERATORS) OR LICENSED APPLICATORS

6.01 DETERMINATION OF COMPETENCY

Competence in the use and handling of pesticides shall be determined on the basis of written examinations, and, as appropriate, performance testing, based upon standards set forth below and which are approved by the commissioner. Such examination and testing shall include the general standards applicable to all categories and the additional standards specifically identified for each category or sub-category (if any) in which an applicator is to be classified. Written examinations shall be given at such times and places as the commissioner may direct. Correctly answering seventy percent or more of the questions shall be considered to be satisfactory evidence of competence. Failure to answer at least 70% of the questions correctly shall be grounds for denial of certification and at least three (3) days must pass before an applicant may apply for re-examination. No additional fee shall be required for re-examination.

6.02 GENERAL STANDARDS FOR ALL CATEGORIES OF CERTIFIED COMMERCIAL,
LICENSED PUBLIC OPERATORS OR LICENSED APPLICATORS

All commercial and licensed applicators shall demonstrate practical knowledge of the principles and practices of pest control and safe use of pesticides. Testing shall be based on examples of problems and situations appropriate to the particular category or sub-category of the applicator's certification and the following areas of competency:

1. LABEL & LABELING COMPREHENSION

- (a) The general format and terminology of pesticide labels and labeling;
- (b) The understanding of instructions, warnings, terms, symbols, and other information commonly appearing on pesticide labels;
- (c) Classification of the product, general or restricted; and
- (d) Necessity for use consistent with the label.

2. SAFETY

Factors including:

- (a) Pesticide toxicity and hazard to man and common exposure routes;
- (b) Common types and causes of pesticide accidents;
- (c) Precautions necessary to guard against injury to applicators and other individuals in or near treated areas;
- (d) Need for and use of protective clothing and equipment;
- (e) Symptoms of pesticide poisoning;
- (f) First aid and other procedures to be followed in case of a pesticide accident; and
- (g) Proper identification, storage, transport, handling, mixing procedures and disposal methods for pesticides and used pesticide containers, including precautions to be taken to prevent children from having access to pesticides and pesticide containers.

3. ENVIRONMENT

The potential environmental consequences of the use and misuse of pesticides as may be influenced by such factors as:

- (a) Weather and other climatic conditions;
- (b) Types of terrain, soil or other substrate;
- (c) Presence of fish, wildlife and other non-target organisms; and
- (d) Drainage patterns.

4. PESTS

Factors such as:

- (a) Common features of pest organisms and characteristics of damage needed for pest recognition;
- (b) Recognition of relevant pests; and
- (c) Pest development and biology as it may be relevant to problem identification and control.

5. PESTICIDES

Factors such as:

- (a) Types of pesticides;
- (b) Types of formulations;
- (c) Compatibility, synergism, persistence and animal and plant toxicity of the formulations;
- (d) Hazards and residues associated with use;
- (e) Factors which influence effectiveness or lead to such problems as resistance to pesticides; and
- (f) Dilution procedures.

6. EQUIPMENT

Factors including:

- (a) Types of equipment and advantages and limitations of each type; and
- (b) Uses, maintenance and calibration.

7. APPLICATION TECHNIQUES

Factors including:

- (a) Methods of procedures used to apply various formulations of pesticides, solutions, and gases, together with a knowledge of which technique of application to use in a given situation;
- (b) Relationship of discharge and placement of pesticides to proper use, unnecessary use, and misuse; and
- (c) Prevention of drift and pesticide loss into the environment.

8. LAWS AND REGULATIONS

Factors including:

Applicable State and Federal laws and regulations.

6.03 SPECIFIC STANDARDS FOR COMPETENCY FOR EACH CATEGORY OF
COMMERCIAL, LICENSED PUBLIC OPERATORS AND LICENSED APPLICATORS

Some of the factors referenced in this section are of particular importance because of the different types of activities carried out by the applicators in each category. For example, practical knowledge of drift problems should be required of agricultural applicators but not seed treatment applicators. The latter, however, should be particularly knowledgeable of the hazards of the misuse of treated seed and the necessary precautionary techniques. Commercial and licensed applicators in each category shall be particularly qualified with respect to the practical knowledge standards elaborated below.

1. AGRICULTURAL PLANT PEST CONTROL CATEGORY

Applicators must demonstrate practical knowledge of crops grown and the specific pests of those crops on which they may be using restricted use pesticides. The importance of such competency is amplified by the extensive areas involved, the quantities of pesticides needed, and the ultimate use of many commodities as food and feed. Practical knowledge is required concerning soil and water problems, pre-harvest intervals, re-entry intervals, phytotoxicity, and potential for environmental contamination, non-target injury and community problems resulting from the use of restricted use pesticides in agricultural areas.

SUB-CATEGORY A - AGRICULTURAL PLANT PEST CONTROL AERIAL APPLICATOR

In addition to demonstrating competence in the specific standards for the sub-category AGRICULTURAL PLANT PEST CONTROL, the aerial applicator must hold a valid Agricultural Applicator Certification from the Federal Aviation Agency.

2. ANIMAL PEST CONTROL

Applicators applying pesticides directly to animals must demonstrate practical knowledge of such animals and their associated pests. A practical knowledge is also required concerning specific pesticide toxicity and residue potential, since host animals will frequently be used for food. Further, the applicator must know the relative hazards associated with such factors as formulation, application techniques, age of animals, stress and extent of treatment.

3. FOREST PEST CONTROL CATEGORY

Applicators shall demonstrate practical knowledge of types of forests, forest nurseries, and forest seed production in West Virginia and the pests involved. They should possess practical knowledge of the cyclic occurrence of certain pests and specific population dynamics as a basis for programming pesticide applications. A practical knowledge is required of the relative biotic agents and their vulnerability to the pesticides to be applied. Because forest stands may be large and frequently include natural aquatic habitats and harbor wildlife, the consequences of pesticide use may be difficult to assess. The applicator must therefore demonstrate practical knowledge of control methods which will minimize the possibility of secondary problems such as unintended effects on wildlife. Proper use of specialized equipment must be demonstrated, especially as it may relate to meteorological factors and adjacent land use.

SUB-CATEGORY A - AERIAL FOREST PEST CONTROL

In addition to demonstrating competence in the specific standards for the sub-category FOREST PEST CONTROL, the aerial applicator must hold a valid Agriculture Applicator Certification from the Federal Aviation Agency.

4. ORNAMENTAL AND TURF PEST CONTROL

Applicators shall demonstrate practical knowledge of pesticide problems associated with the production and maintenance of ornamental trees, shrubs, plantings, and turf, including cognizance of potential phytotoxicity due to a wide variety of plant material, drift, and persistence beyond the intended period of pest control. Because of the frequent proximity of human habitations to application activities, applicators in this category must demonstrate practical knowledge of application methods which will minimize or prevent hazards to humans, pets, and other domestic animals.

SUB-CATEGORY A - AERIAL ORNAMENTAL AND TURF PEST CONTROL

In addition to demonstrating competence in the specific standards for the sub-category ORNAMENTAL AND TURF PEST CONTROL, the aerial applicator must hold a valid Agriculture Applicator Certification from the Federal Aviation Agency.

5. SEED TREATMENT CATEGORY

Applicators shall demonstrate practical knowledge of types of seeds that require chemical protection against pests and factors such as seed coloration, carriers, and surface active agents which influence pesticide binding and may effect germination. They must demonstrate practical knowledge of hazards associated with handling, sorting and mixing, and misuse of treated seed such as introduction of treated seed into food and feed channels, as well as proper disposal of unused treated seeds.

6. AQUATIC PEST CONTROL CATEGORY

Applicators shall demonstrate practical knowledge of the secondary effects which can be caused by improper application rates, incorrect formulations, and faulty application of pesticides used in this category. They shall demonstrate practical knowledge of various water use situations and the potential of downstream effects. Further, they must have practical knowledge concerning

potential pesticide effects on plants, fish, birds, beneficial insects and other organisms which may be present in aquatic environments. These applicators shall demonstrate practical knowledge of the principles of limited area application.

SUB-CATEGORY A - AERIAL AQUATIC PEST CONTROL

In addition to demonstrating competence in the specific standards for the sub-category AQUATIC PEST CONTROL, the aerial applicator must hold a valid Agriculture Applicator Certification from the Federal Aviation Agency.

7. RIGHT-OF-WAYS PEST CONTROL CATEGORY

Applicators shall demonstrate a practical knowledge of a wide variety of environments, since rights-of-ways can traverse many different terrains, including waterways. They shall demonstrate practical knowledge of problems on runoff, drift, and excessive foliage destruction and ability to recognize target organisms. They shall also demonstrate practical knowledge of the nature of herbicides and the need for containment of these pesticides within the right-of-way area, and the impact of their application activities in the adjacent areas and communities.

SUB-CATEGORY A - AERIAL RIGHT-OF-WAY PEST CONTROL

In addition to demonstrating competence in the specific standards for the sub-category RIGHT-OF-WAY PEST CONTROL, the aerial applicator must hold a valid Agriculture Applicator Certification from the Federal Aviation Agency.

8. INDUSTRIAL, INSTITUTIONAL, STRUCTURAL AND HEALTH RELATED
PEST CONTROL CATEGORY

Applicators in each sub-category of this category (GENERAL, STRUCTURAL and FUMIGATION PEST CONTROL) must demonstrate a practical knowledge of a wide variety of pests, including their life cycles, types of formulation appropriate for their control, and methods of application used in the applicators sub-category that avoid contamination of food, damage and contamination of habitat, and exposure of people and pets. Since human exposure, including babies, children, pregnant women, and elderly people, is frequently a potential problem, applicators must demonstrate practical knowledge of the specific factors which may lead to a hazardous condition, including continuous exposure in the various situations encountered in these sub-categories. Because health related pest control may involve outdoor applications, applicators must also demonstrate practical knowledge of environmental conditions, particularly related to this activity.

9. LICENSED PUBLIC OPERATORS CATEGORY

SUB-CATEGORY A - PUBLIC HEALTH PEST CONTROL

Applicators shall demonstrate practical knowledge of vector-disease transmission as it relates to and influences application programs. A wide variety of pests is involved, and it is essential that they be known and recognized, and appropriate life cycles and habitats be understood as a basis for control strategy.

These applicators shall have practical knowledge of a great variety of environments ranging from streams to those conditions found in buildings. They should also have practical knowledge of the importance and employment of such non-chemical control methods as sanitation, waste disposal, and drainage.

SUB-CATEGORY B - REGULATORY PEST CONTROL

Applicators shall demonstrate practical knowledge of regulated pests, applicable laws relating to quarantine and other regulation of pests, and the potential impact on the environment of restricted use pesticides used in suppression and eradication programs. They shall demonstrate knowledge of factors influencing introduction, spread, and population dynamics of relevant pests. Their knowledge shall extend beyond that required by their immediate duties, since their services are frequently required in other areas where emergency measures are invoked to control regulated pests and where individual judgments must be made in new situations.

10. DEMONSTRATION AND RESEARCH PEST CONTROL CATEGORY

Persons demonstrating the safe and effective use of pesticides to other applicators and the public will be expected to meet comprehensive standards reflecting a broad spectrum of pesticide uses. Many different pest problem situations will be encountered in the course of activities associated with demonstration, and practical knowledge of problems, pests, and population levels occurring in each demonstration situation is required. Further, they should demonstrate an understanding of pesticide-organism inter-actions and the importance of integrating pesticide use with other control methods. In general, it would be expected that applicators doing demonstration pest control work possess a practical knowledge of all of the standards detailed in section 6.02 above. In addition, they shall meet the specific standards required for categories (1) through (7) of this section as may be applicable to their particular activity.

Persons conducting field research or method improvement work with restricted use pesticides should be expected to know the general standards detailed in 6.02 above. In addition, they shall be expected to know the specific standards required for paragraph 6.03 (1) through (9) of this section, applicable to their particular activity, or alternatively, to meet the more inclusive requirements listed under "Demonstration".

6.04 SPECIAL STANDARDS

This space reserved for possible issuance of Special Standards, after due public hearing.

6.05 THE ABOVE STANDARDS DO NOT APPLY TO THE FOLLOWING PERSONS FOR PURPOSES OF THESE REGULATIONS

- (1) Persons conducting laboratory type research involving restricted use pesticides; and
- (2) Doctors of Medicine, Doctors of Osteopathy, and Doctors of Veterinary Medicine applying pesticides as drugs or medication during the course of their normal practice.

SECTION 7 - - - STANDARDS FOR CERTIFICATION OF PRIVATE APPLICATORS

7.01 Competence in the use and handling of pesticides by a private applicator will be determined by procedures set forth below. As a minimum requirement for certification, a private applicator must show that he possesses a practical knowledge of the pest problems and pest control practices associated with his agricultural operations; and his related legal responsibility. This practical knowledge includes ability to:

- (1) Recognize common pests to be controlled and damage caused by them.
- (2) Read and understand the label and labeling information - including the common name of pesticides he applies; pest(s) to be controlled, timing and methods of application; safety precautions; any pre-harvest or re-entry restrictions; and specific disposal procedures.
- (3) Apply pesticides in accordance with label instructions and warnings, including the ability to prepare the proper concentration of pesticide to be used under particular circumstances taking into account such factors as area to be covered, speed at which application equipment will be driven, and the quantity dispersed in a given period of operation.
- (4) Recognize local environmental situations that must be considered during application to avoid contamination.
- (5) Recognize poisoning symptoms and procedures to follow in case of a pesticide accident.

7.02 Such competence of each private applicator shall be verified by the administration of a private applicator certification system which ensures that the private applicator is competent, based upon the standards set forth above, to use the restricted use pesticides under limitations of applicable state and federal laws and regulations. The certification system shall employ a written or oral demonstration of competence, or such other equivalent system as may be approved by the commissioner. Failure to demonstrate competence by correctly answering at least 70% of the questions asked shall be grounds for denial of certification. However, the applicant may apply for re-examination.

7.03 In any case where a person, at the time of testing for certification, is unable to read a label, the commissioner may employ a testing procedure, previously approved by the Administrator, United States Environmental Protection Agency, which can adequately assess the competence of such person with regard to all of the above standards. Certification must be related and limited to the use and handling of each individual pesticide for which he desires certification at any time. Therefore, the applicator will be authorized to use only the pesticide(s) for which he has demonstrated competence.

Such demonstration of competence must include the recognition of the common or trade name of the pesticide as well as the recognition of the hazard words and symbols, as they appear on the label. In addition, the demonstration of competence must include the ability to verbally tell the registered uses of the pesticide as they apply to the applicators intended uses, the recommended doses,

the proper times of application for the particular pests to be controlled, safety precautions, handling and disposal of the pesticide and its container. In addition, the applicator must demonstrate that he understands any re-entry or pre-harvest restrictions that apply to the particular pesticide and must know the various sources of advice and guidance available to him to assist him in understanding the safe and proper use of each pesticide related to his certification.

SECTION 8 - - - STANDARDS FOR SUPERVISION OF NON-CERTIFIED APPLICATORS BY
CERTIFIED PRIVATE AND COMMERCIAL APPLICATORS INCLUDING
LICENSED PUBLIC OPERATORS

8.01 Certified applicators whose activities indicate a supervisory role must demonstrate a practical knowledge of federal and state supervisory requirements, including labeling, regarding the application of restricted use pesticides by non-certified applicators.

The availability of the certified applicator must be directly related to the hazard of the situation, the complexity of the application or the ability to readily communicate with the non-certified applicator. In many situations, where the certified applicator is not required to be physically present, "direct supervision" shall include verifiable instructions to the competent person, as follows:

- (1) Detailed guidance for applying the pesticide properly and
- (2) Provisions for contacting the certified applicator in the event he is needed.

In other situations, and as required by the label, the actual physical presence of a certified applicator may be required when application is made by a non-certified applicator.

SECTION 9 - - - FEDERAL AGENCY PESTICIDE APPLICATORS

9.01 When an employee of any agency of the United States Government has been qualified in any category as competent to apply restricted use pesticides under the Government Agency Plan (GAP) or under other plans judged by the commissioner to be at least equal to the West Virginia Plan, such employee will be certified by the commissioner in the same category or categories without the need for a written examination nor for the payment of any fee.

9.02 Federal employees qualified under an acceptable Federal Plan to apply restricted use pesticides and who intend to apply restricted use pesticides in West Virginia as a part of their agency work shall present their qualifying documents to the commissioner and, if acceptable, these documents will be endorsed or a state document will be issued which will permit the federal employee to use restricted use pesticides in West Virginia.

9.03 If, in an emergency situation, federal employees are brought into West Virginia to control or eradicate pests and when these employees have been properly qualified to use restricted use pesticides under the plan of another state or under an acceptable federal government agency plan such employee will be con-

sidered to be certified in West Virginia and he or his agency must, within 10 days, present qualifying credentials to the commissioner. At this time state credentials will be issued if the employee is to remain in West Virginia as an applicator of restricted use pesticides.

9.04 The provisions of this section do not apply to non-federal employees contracted to perform pesticide application for the federal government. In an emergency however, and with the concurrence of the commissioner, a properly certified federal applicator may act in a supervisory capacity of a non-federal applicator provided that applicator is properly certified in West Virginia or under the plan of another state. Within 10 days such non-federal applicator certified in another state must apply for West Virginia certification in the normal manner.

SECTION 10 - - - RECIPROCITY

10.01 When a commercial applicator is certified under the state plan of another state and desires to operate as a commercial or licensed applicator in West Virginia he shall make application to the commissioner and shall include, along with the proper fee and other details required by the ACT, a true copy of his credentials certifying him as an applicator of restricted use pesticides in another state. The commissioner then may, if he approves the credentials, issue a West Virginia certification to the applicator in the category(ies) for which he is certified in another state without a written examination, provided that the state having certified the applicator will similarly certify holders of West Virginia certificates.

10.02 When a private applicator is certified under the state plan of another state and owns, leases or manages land in West Virginia on which restricted use pesticides must be applied to produce agricultural crops, the commissioner will issue a West Virginia Private Applicator Certification on receipt of a properly completed application, proper fee and a true copy of the applicants out-of-state certification.

SECTION 11 - - - STANDARDS FOR LICENSING OF DEALERS OF RESTRICTED USE PESTICIDES

11.01 DETERMINATION OF COMPETENCY

An applicant for license to sell restricted use pesticides must demonstrate a knowledge and understanding of safe and acceptable methods of handling, storage and distribution of restricted use pesticides as well as knowledge and understanding of the state pesticide laws. Such demonstration of knowledge shall be determined on the basis of a written examination. Failure to correctly answer at least 70% of the questions asked shall be grounds for denial of certification and at least 3 days must pass before the dealer may apply for re-examination. No additional fee shall be required for re-examination.

11.02 GENERAL STANDARDS FOR DEALERS OF RESTRICTED USE PESTICIDES

All dealers licensed to sell restricted use pesticides shall demonstrate a practical knowledge of the types of pesticides he sells including but not limited to: labels and label comprehension; classification of pesticides and necessity for use consistent with the label; safety including: safe use and safe environment; symptoms of pesticide poisoning; types of pesticides and pesticide formulations; dilution procedures and application techniques.

SECTION 12 - - - RECORDS

12.01 LICENSED APPLICATORS, COMMERCIAL APPLICATORS, AND
LICENSED PUBLIC OPERATORS

Licensed and commercial applicators, including licensed public operators shall for a period of three years from the date of application, keep records detailing the application of restricted use pesticides applied under their supervision to include:

1. The pesticide used.
2. The formulation used and the quantity of that formulation used. In the case of applicators in the sub-category GENERAL PEST CONTROL, the records for quantity used may be kept as the total quantity used per day by each applicator when less than 1 gallon of use dilution spray or one pound of dusts, powders or prepared rodenticide baits are used at any one location. When more than these amounts are used at one location records for that location shall be kept.
3. The date and place of application.
4. The pest against which the pesticide was used.
5. The applicator's name.

12.02 DEALERS OF RESTRICTED USE PESTICIDES

Dealers of restricted use pesticides shall keep and maintain for a period of three years records on the same or other disposition of restricted use pesticides to include the following:

1. Pesticides sold, or otherwise disposed of, including formulation. For example, Sevin 80% W. P.
2. Quantity, for example, 50 pounds.
3. Date of sale or disposition.
4. Name and address of purchaser or receiver, including the certified applicator's identification number.

SECTION 13 - - - FINANCIAL SECURITY REQUIRED OF LICENSED APPLICATOR LICENSEE

13.01 The commissioner shall not issue a licensed applicators license until the applicant has filed evidence of financial security with the commissioner which may consist of a surety bond or liability insurance policy or certification thereof from an insurance company licensed to do business in West Virginia. Such

financial security shall be for the amount and kind for each category of licensed applicator as follows:

1. (a) Agriculture Plant Pest Control

An applicant for certification as a licensed applicator in this category shall file evidence of financial security in the minimum amount of Three Hundred Thousand Dollars (\$300,000.00) for bodily injury or death for each occurrence and One Hundred Thousand Dollars (\$100,000.00) for property damage resulting from the use or misuse of pesticides.

1. (b) Animal Pest Control

An applicant for certification as a licensed applicator in this category shall file evidence of financial security in the minimum amount of Three Hundred Thousand Dollars (\$300,000.00) for bodily injury or death for each occurrence and One Hundred Thousand Dollars (\$100,000.00) for property damage resulting from the use or misuse of pesticides.

2. Forest Pest Control

An applicant for certification as a licensed applicator in this category shall file evidence of financial security in the minimum amount of Three Hundred Thousand Dollars (\$300,000.00) for bodily injury or death for each occurrence and One Hundred Thousand Dollars (\$100,000.00) for property damage resulting from the use or misuse of pesticides.

3. Ornamental and Turf Pest Control

An applicant for certification as a licensed applicator in this category shall file evidence of financial security in the minimum amount of Three Hundred Thousand Dollars (\$300,000.00) for bodily injury or death for each occurrence and One Hundred Thousand Dollars (\$100,000.00) for property damage resulting from the use or misuse of pesticides.

4. Seed Treatment

An applicant for certification as a licensed applicator in this category shall file evidence of financial security in the minimum amount of Three Hundred Thousand Dollars (\$300,000.00) for bodily injury or death for each occurrence and One Hundred Thousand Dollars (\$100,000.00) for property damage resulting from the use or misuse of pesticides.

5. Aquatic Pest Control

An applicant for certification as a licensed applicator in this category shall file evidence of financial security in the minimum amount of Three Hundred Thousand Dollars (\$300,000.00) for bodily injury or death for each occurrence and One Hundred Thousand Dollars (\$100,000.00) for property damage resulting from the use or misuse of pesticides.

6. Right-of-Ways Pest Control

An applicant for certification as a licensed applicator in this category shall file evidence of financial security in the minimum amount of Three Hundred Thousand Dollars (\$300,000.00) for bodily injury or death for each occurrence and One Hundred Thousand Dollars (\$100,000.00) for property damage resulting from the use or misuse of pesticides.

7. Industrial, Institutional, Structural and Health Related Pest Control

An applicant for certification as a licensed applicator in this category shall file evidence of financial security in the minimum amount of Three Hundred Thousand Dollars (\$300,000.00) for bodily injury or death for each occurrence and One Hundred Thousand Dollars (\$100,000.00) for property damage resulting from the use or misuse of pesticides.

13.02 AERIAL APPLICATORS

Aerial applicators in any of the above categories or sub-categories shall show evidence of financial security in the minimum amount of Three Hundred Thousand Dollars (\$300,000.00) for bodily injury or death for each occurrence and Two Hundred Thousand Dollars (\$200,000.00) for property damage resulting from the use or misuse of pesticides.

13.03 Nothing in these regulations shall be construed in any way to relieve any person from liability for any damage to the person or lands of another caused by the use of pesticides even though such use conforms to the rules and regulations of the commissioner.

SECTION 14 - - - STORING AND DISPOSAL OF PESTICIDES AND PESTICIDE CONTAINERS

14.01 PROHIBITED ACTS

No person shall dispose of or store (or receive for disposal or storage) any pesticide, pesticide container or pesticide container residue:

1. In a manner inconsistent with its label or labeling.
2. So as to cause or allow the open dumping of pesticides or pesticide containers.
3. So as to cause or allow open burning of pesticides or pesticide containers, except: the open burning by the user of small quantities of combustible containers (but not to exceed 50 lbs.) containing pesticides other than those containing organic mercury, chlorates, lead, cadmium, or arsenic compounds, is acceptable when allowed by state or local regulations and when due regard is given to wind direction in relation to the protection of crops, animals and people from the pesticide vapors created through burning.

4. So as to cause or allow dumping of pesticides in any stream, river, pond, sewer or lake, except in conformance with permits issued by the West Virginia Department of Natural Resources or other state agency having jurisdiction regarding water pollution.
5. So as to violate any applicable state or federal pollution control standard.

14.02 Recommended pesticide and pesticide container disposal procedures shall permit the disposal of containers of pesticides registered for use in the home and garden if securely wrapped in several layers of paper and disposed of singly during routine municipal solid waste disposal and the disposal of pesticides and pesticide containers on farms where disposal by open-field burial of single containers is undertaken with due regard to the protection of surface and sub-surface waters.

14.03 Until such time as the commissioner along with the Pesticide Advisory Board, and any other person as the commissioner may consult, promulgate more specific rules and regulations covering the disposal and storage of pesticides and pesticide containers not provided in 14.01 or 14.02 of this section, the recommended procedures for the disposal and storage of pesticides and pesticide containers detailed in Regulations promulgated by the Administrator, United States Environmental Protection Agency shall be the recommended procedures for West Virginia. The commissioner shall make copies of these procedures available to any person needing guidance for proper disposal or storage of pesticides or pesticide containers.

SECTION 15 - - - PESTICIDE ADVISORY BOARD

Expenses of Members Not From Governmental Departments

15.01 Pesticide Advisory Board members not from governmental departments shall submit expense accounts to the commissioner no later than the 8th day of the month following the month in which expenses were incurred on forms provided by the commissioner. Reimbursements made to members not from governmental departments shall be made for the actual cost of lodging, meals, and transportation according to the regulations applicable to department employees.

SECTION 16 - - - EXEMPTIONS

16.01 Experimental Research Exemption

The provisions of Section 5 (5.10) of these Regulations relating to categorization of commercial applicators shall not apply to research personnel applying pesticides only to bona fide experimental plots.

SECTION 17 - - - RESTRICTED USE PESTICIDE DEALERSHIPS

17.01 Each establishment, store, warehouse or other place where restricted use pesticides are sold or offered for sale shall be considered to be a dealership and at least one person at each dealership shall be licensed as required by the ACT.

17.02 Salesmen or technical sales representatives for out-of-state pesticide dealers shall be subject to the provisions of Section 13 of the ACT.

SECTION 18 - - - APPLICATION AND EQUIPMENT

18.01 No person shall apply, dispense, or use any pesticide in or through any equipment or application apparatus unless such equipment or application apparatus is in sound mechanical condition and capable of satisfactory operation. All pesticide application equipment shall be properly equipped to dispense the proper amount of material; all pesticide mixing, storage, or holding tanks; whether on application equipment or not, shall be leakproof; all spray distribution systems shall be leakproof and any pumps which such systems may have shall be capable of operating at sufficient pressure to assure a uniform and adequate rate of discharge; and all pesticide application equipment shall be equipped with whatever cut-off valves and discharge orifices may be necessary to enable the operator to pass over (or by) non-target areas without contaminating them.

SECTION 19 - - - IMPLEMENTATION

19.01 LICENSED APPLICATORS

All persons owning or managing a pesticide application business which is engaged in the business of applying pesticides upon the lands of another (whether or not such person applies restricted use pesticides) shall make application to the commissioner for license and examination on a regular form supplied by the commissioner prior to January 1, 1976, accompanied by the required annual fee of Fifty Dollars (\$50.00), and the financial security required under section fourteen of the law and section thirteen of these regulations. It shall be a violation of the West Virginia Pesticide Use and Application Act of 1975 for any person to engage in the business of applying any pesticide upon the lands of another after January 1, 1976, unless such person is properly licensed.

19.02 PRIVATE APPLICATORS AND OTHER APPLICATORS (COMMERCIAL or LICENSED PUBLIC OPERATORS) NOT ENGAGED IN THE BUSINESS OF APPLYING PESTICIDES UPON THE LANDS OF ANOTHER

Private applicators, licensed public operators and commercial applicators in all categories not engaged in the business of applying pesticides upon the lands of another shall make application for certification and determination of competency to the commissioner on a regular form provided by the commissioner, accompanied by the required annual fee of One Dollar (\$1.00) prior to October 21, 1976, or prior to the date they desire to purchase or use restricted use pesticides: Provided, That the implementation of the certification requirements of all categories of applicators other than those engaged in the business of applying pesticides upon the lands of another shall not take place until or unless the United States Environmental Protection Agency declares, by regulation, the restricted use pesticides list and the commissioner adopts such list as provided for in section four (4) of the ACT.

19.03 DEALERS

All persons who are dealers in restricted use pesticides shall make application for license and examination to the commissioner on a regular form provided by the commissioner, accompanied by the required annual fee of Five Dollars (\$5.00) prior to October 21, 1976, or prior to the date they desire to engage in the business of dispensing restricted use pesticides: Provided, that the implementation of the licensing requirements for dealers of restricted use pesticides shall not take place until or unless the United States Environmental Protection Agency declares, by regulation, the restricted use pesticide list and the commissioner adopts such list as provided for in section four (4) of the ACT.

SECTION 20 - - - PERMITS

The commissioner may issue a permit to a non-certified applicator to use a restricted use pesticide as a Private Applicator for a specific period of time providing the person desiring such permit completes an application on a form provided by the commissioner and pays a One Dollar (\$1.00) fee and demonstrates competency in the use of that pesticide. Such demonstration of competency shall be by oral examination before the commissioner and shall conform with section seven (7) of these regulations.

SECTION 21 - - - EFFECTIVE DATE

20.01 Done in the Office of the Commissioner, West Virginia Department of Agriculture, Capitol Building, Charleston, West Virginia, 25305, this 19th day of November, 1975, to become effective the 1st day of January, 1976.



COMMISSIONER OF AGRICULTURE