

## Win Your Spring Garden Battle In The Fall

NEW YORK—The fall season often gives rise to the homeowner's feeling of helplessness with regards to his upcoming 1971 battle against insect and weed pests. This need not be so. The Chemical Manufacturers Association (CSMA) says that in many cases the best time to spray is now—an exercise in "preventive maintenance". By controlling insects while in the egg or immature (larval) stage, you can reduce their potential for reproduction in the spring.

Of the many insect pests in lawns, grubs and sod webworms are among the most common. The grubs can usually be killed with Chlordane (45% emulsion concentrate) and the webworms are taken care of by either Sevin (50% wettable powder or 5% granules) or Diazinon (25% liquid concentrate or 2% granules).

The CSMA warns that some insects (and relatives) will visit both your lawn and house. Some of these are ants, crickets, spiders, oriental cockroaches, millipedes, and centipedes. The best way to fight such an enemy is with foundation spraying. Many times this completely eliminates the need for indoor spraying and indoor baits (often eaten by children). Either Dieldrin or Chlordane will do a good job. When applying the chemical, spray the house's foundation just to the point of runoff and completely around

the house. Be sure to spray cracks and behind the steps. It is good also to spray a four-inch band alongside the foundation on the soil. If spring-tails are proving to be a menace around the yard, Malathion (50-57% emulsion concentrate or 4% dust) will eliminate them.

When it comes to the rose garden, troubles with scales, mites and powdery mildew can also be gotten rid of with "preventive maintenance." According to The American Rose, a good multi-purpose substitute for the restricted DDT would be a dust containing 1) Malathion, Diazinon, or Meta-Systox-R and 2) Sevin or Methoxychlor and 3) Kelthane or Tedion, and 4) folpet or captan. If powdery mildew is in a rather advanced stage, treat with Acti-dione PM or Pipron.

At the end of the summer season, weeds are approaching their weakest time of the year. Thus the seedlings are at that time most susceptible to chemical treatment; the National Sprayer and Duster Association agrees that fall and early spring are the best times of the year for the spraying of weeds. Many of the broad-leaved weeds (dandelion, plantain, sorrel, mustard, etc.) are effectively controlled with 2,4-D. For some of the harder ones (oxalis, henbit, cinquefoil, yarrow) it may be necessary to apply Silvex or Dicamba. In pre-emergence control of ugly

crabgrass, Chlordane has been proven quite competent.

Many homeowners have seen the damage "snow mold" can do to a lawn. The most vulnerable spots in the lawn are under trees and on the north and east sides of buildings where shade is the greatest. Good chemicals to use in the fight against this fungus are Formula Z, Panogen Turf Spray, Tarsan OM, and Calcior. It is also important to keep the grass mowed to recommended height (about 1 1/2 inches in most cases) and to rake up the leaves often, preventing an accumulation where snow mold can become established. Remember: "chemicals should be used as a supplement to—not a substitute for—cultural methods of weed control."

If the reader owns a green house, he may be interested in fumigating the soil. Such fumigation will control many disease producing bacteria and fungi. Good fumigants are methyl bromide, chloropicrin, SMDC, (Stauffer Vapor, Du Pont VPM and ChemVape), and MIT (Vorlex).

Fall spraying, besides being the best way to control many pests, decreases the amount of spraying to be done in the spring when house, lawn and garden work are at their greatest.

The CSMA reminds that all pesticides should be kept away from children, preferably under lock and key.

## GAMA Grant For 4-H Aerospace Program

WASHINGTON, D.C. — An aviation curriculum will be offered to more than four million 4-H Club youngsters across the U.S. under a planning grant from the General Aviation Manufacturers Association (GAMA) to the National 4-H Club Foundation.

Initial purpose of the \$3,000 grant is the development and testing of materials and procedures for the National 4-H Aerospace Program. The 4-H Foundation plans to make available a formal program of aeronautical instruction for all 4-H Clubs across the country, covering such topics as flight theory, impact of aviation upon society, aviation careers, aviation in agriculture and meteorology.

Although this will be the 4-H organization's first national program in aerospace education for its members several 4-H groups have already launched their own aerospace programs in response to youths' growing interest in aviation.

In Madison County, Ill., for example, 20 boys are earning their Federal Aviation Administration ground school licenses. Sullivan County, Ind., 4-H youngsters planned and navigated their own flight into Chicago's Meigs Field for a day-long field trip. And in Oklahoma, where 911 4-H members enrolled in aerospace projects last year, many are actually flying on student licenses today.

In all, 26 states reported 2,087 4-H Club members enrolled in aerospace activities last year.

According to the 4-H Foundation, the objective of its new National Aerospace Program will be to stimulate and encourage young people to consider the career challenges and opportunities of aviation



A SPECIAL GRANT from the General Aviation Manufacturers Association (GAMA) to the National 4-H Aerospace Program will aid in planning programs for young people such as these three from Circle M Horse and Pony 4-H Club of Monroeville, Pa.

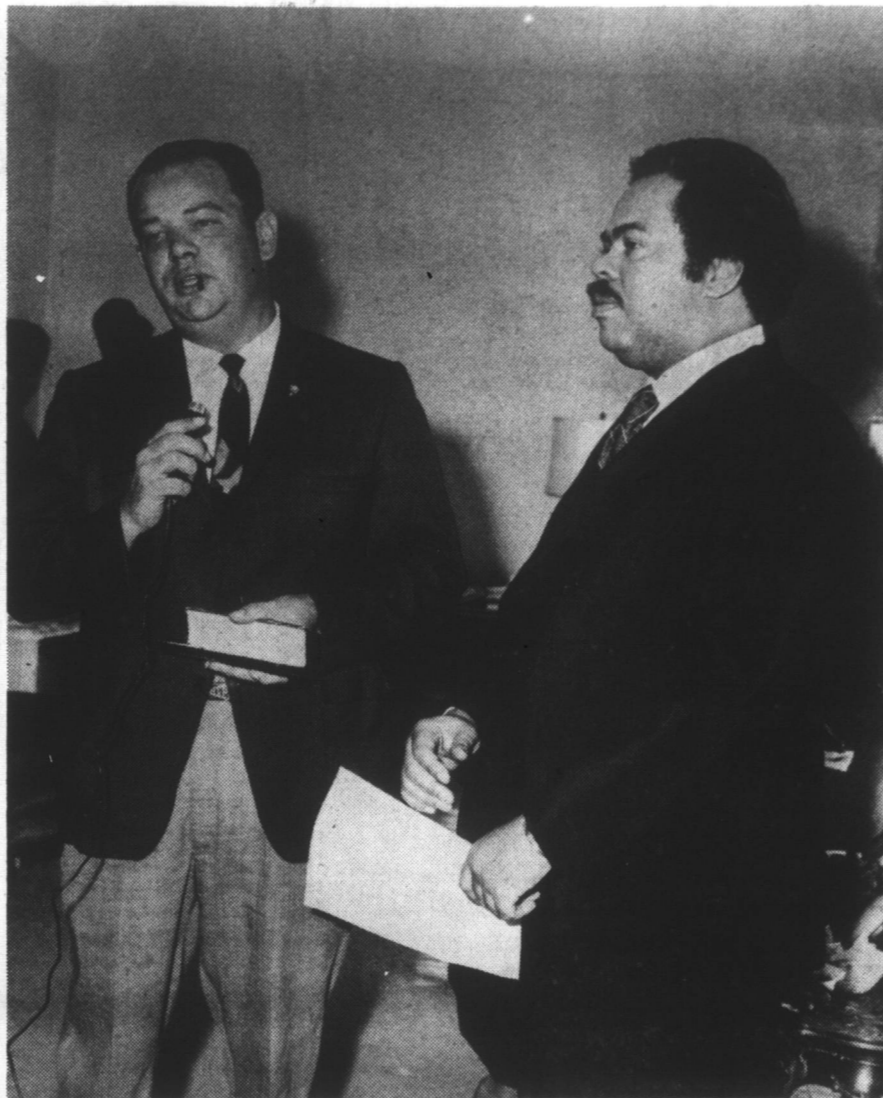
and related industries.

"Career emphasis, or career exploration, is really the basis for 4-H's interest in an aerospace project," remarked Dr. Edward L. Prickey, chairman of the National 4-H Aerospace Program Development Committee.

GAMA's support of the program, according to the association, is based on a principal aim of the organization, which is to acquaint the pub-

lic more fully with the role of general aviation in the nation's transportation system, the contribution the industry makes to the national economy and the importance of general aviation to every traveler.

An independent aviation trade organization, GAMA is dedicated to fostering and advancing the general welfare, safety, interest and activities of all facets of the industry.



## Worldwide Church Leader Receives Key to City

His Eminence, Bishop S. McDowell Shelton, Pastor and General Overseer of the Church of the Lord Jesus Christ of the Apostolic Faith, headquartered at 22nd & Bainbridge Streets, Philadelphia, Pa., was presented with the Key to the City of Miami by Commissioner J. L. Plummer, Jr. at the fabulous Hotel Fontainebleau, Miami Beach in The Bishop's Penthouse Suite. The Presentation of the Key was covered by local radio and television, and attended by Madame Modjanot, Professor of Sorbonne University, France, and Director of French at Barthe School of Languages, Miami, Fla. Bishop Shelton broadcasts in five languages.

The Bishop was conducting the Florida State Convention which began in Jacksonville, then moved to Tampa, Lake Worth, Belle Glade, Miami, and finally to Fort Lauderdale where he made a live worldwide broadcast. The Church of the Lord Jesus

Christ broadcasts twice daily around the world and three times on Sunday. There are approximately 100 Churches of the Lord Jesus Christ throughout the United States,

Europe, and Africa, with a membership of about five million. His Eminence is now in Nassau, Bahamas conducting special revival services.

## Kidnap Victim's Wife Flies Home

MONTEVIDEO, Uruguay — The wife of British Ambassador Geoffrey Jackson flew home to London Sunday to wait—perhaps weeks—for the release of her kidnapped husband, a prisoner of the Tupamaro urban guerrillas.

Although Jackson was seized Friday, the Tupamaros have demanded neither money nor political prisoners for the 55-year-old British diplomat's freedom.

Spokesmen for President Jorge Pacheco Areco's government reiterated to newsmen that there will be no change in the administration's policy of refusing to deal with the Tupamaros.

"It is obvious that the position of a country, no matter how lamentable the events, cannot be changed because of the hierarchy of a kidnap victim," said Pablo Ricaltoni, undersecretary of foreign affairs. Britain is Uruguay's most important trading partner.

A dozen Tupamaros cut off

Jackson's limousine, injured his chauffeur and two bodyguards, and sped away with the ambassador.

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## Medical Team Brings Care To Descendants of "Evangeline"

by Esther E. Anderson, M.D.  
Director, March of Dimes Heritable Disease Evaluation Center, Louisiana State University Medical Center

Delivery of medical care is one of the most serious health problems facing our nation today. The great strides being made in medical research are simply not always available to the individuals who need care based on those discoveries. At the present time, application of research is often sporadic and inefficient, sometimes ineffective, and usually costly. In many instances, individuals who require specialized medical services receive little or none until it is too late.

This is especially true in the case of genetic problems, since many hereditary defects are so rarely seen that they are extremely difficult to diagnose. And effective genetic counseling for prospective parents is only possible if an accurate diagnosis can be made and a pattern of inheritance of the disorder can be determined.

In Louisiana the twin problems of gathering research material on genetic disorders and providing care for the families who are afflicted have been combined in a single program. The Heritable Disease Evaluation Center at Louisiana State University, aided by funds from the March of Dimes, is carrying out a unique genealogical study which encompasses both research and patient care.

The study concentrates on the Acadians, descendants of the French people who were banished from Canada in the 18th century. The heroine of Longfellow's poem, "Evangeline," was an Acadian girl whose real name was Emmeline Labiche. Although the tale itself was largely fiction, all that was mortal of Evangeline now lies in a churchyard at St. Martinville, La.



BRINGING MEDICAL CARE TO THE PATIENT, Dr. Esther E. Anderson examines Karen Ann Rubin at her home beside Bayou Terrebonne in Lafourche Parish, Louisiana. Karen Ann and other members of her family are afflicted with Friedreich's Ataxia, a hereditary disease. Treatment of the Rubins has been combined with genealogical studies which will provide information for genetic counseling of other families with the same disease.

where her grave is surrounded by oak trees and masses of flowers.

Today there are about 900-000 "Cajuns" living in the bayou country of southwestern Louisiana. They form a uniquely self-enclosed population which has been well defined since 1755. Church and family records are readily available. Consanguinity makes it possible to study hereditary defects which are rare in the general population, but which occur more frequently in a closely related group. When such a defect is identified and diagnosed in studying the Cajuns, this information can be made available to other physicians in all parts of the country. This will help them in diagnosing and advising their own patients.

Teams of doctors and medical students participate in the Cajun study, forming out-

across the bayou country to sift through old records and visit families of shrimp boaters, searching for reliable genealogical and genetic information. All this data will be computerized so that it will be readily available for use in diagnosing and evaluating hereditary disorders.

But what about the individual patient? To be sure, the Cajun study is an ongoing project, but how does it apply to the people with the problem?

Let's take the Martin family as an example. Their son Noel was referred to the Heritable Disease Evaluation Center when he was four months old.

It was found that Noel had trigonocephaly, a recessive hereditary disorder. Our study of the family history revealed that both parents were Acadian and that the marriage was

probably consanguineous. What were we able to do with this information? The Martins received counseling regarding the possibilities of future children being affected, and also regarding the chances that their children might transmit this disorder to subsequent generations. This counseling will enable them to decide how to plan their family and what information to provide their children when they are old enough to marry. Meanwhile, Noel will receive the care he needs.

Genetic counseling is an important aspect of the National Foundation-March of Dimes in its nationwide program aimed at prevention and treatment of birth defects.

Another good example of how our two-pronged effort works is the Melancon family. The Melancons have four daughters, but it was Melanie, aged seven, who first came to our attention. We found she was suffering from Legg-Perthes disease, a hereditary bone condition which made it necessary for her to wear a brace on her left leg. Fortunately her case was diagnosed early enough so that treatment will correct the condition, and this lively youngster will soon be able to discard the device and lead a normal life.

Since the disease was recognized as a hereditary condition, examinations of other members of the family were made and multiple cases of a milder form of the same disorder was found. Melanie's sister Marion and her cousin, Tex, are now also receiving therapy which will prevent the potential crippling effects of this defect.

And of course, the information gained from the genealogical study of the Melancon family will be fed into our pool of knowledge on hereditary disorders among the Acadians. So Melanie Melancon, like many other patients, is not just a cute little girl with a problem that can be solved. She is a clue in the never-ending search for ways to prevent birth defects.

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