Pesticides In Prespective project the cava onment and at the same assure adequate

By Delbert L. Bierlein, Pesticides Coordinator

Agricultural Extension Service chemical uses and the associated must be changed, because con-

able life forms. Commercial ag- should be banned It is recognizriculture must be advised of ed that certain pesticide uses on the associated must be changed because con sure the user that a particular and food supply and thus main-

s sks involved so that production and protection of health. of food and othe gods remains a high levels and safe for the With so much attention focus consumer to use With the pres Ed on the use of pesticides todive ent system one farmer is able to many views concerning their of produce enough for more than feets on the environment are 40 other people. The use of arising. The Extension Service is chemical pesticides and other ag not only interested in this public ricultural chemicals has contriconcern but is involved with the buted to this tremendous achieveeducational aspects of pesicide ment in production. Mistakes mendations on pesticide usage usage, as well as with learning may have been made, yet we how to properly control pests cannot afford to become alarmwith minimum danger to desir- 1sts to the point where pesticides

NORTHAMPTON COUNTY

HARVESTORE FEED **LOT TOUR**

TUES., NOV. 18, 1969

Leaving Schenkweiler Hotel 12:30 P.M. Rt. 100 and old Rt. 22 Fogelsville

For more information contact your local representative.

Richard S. Enck 284-4973

J. Mark Kreider 392-5513 Lanc. Co.

Hugh D. Hartman 397-1830 Lebanon Co.

Lanc. Co.

Henry H. Stauffer 367-3196 Dauphin Co.

fimination has occurred Rescarch efforts have to be direct. ed toward materials and ways to

Safeguards

Ine Coope ative Extension Service carries on a continuing program to inform the public -farmers, homeowners, gardeners, and commercial growers — concerning the safe effective use of Likewise, recomlations, and research developed by competent scientists. These 'built-in" safeguards help to aschemical may be directed toward a pest species without adverse effects on himself or the environment Each chemical undergoes séveral years of testing on many life forms and in a variety of habitats before it can be registered for use by the USDA and a tolerance established by the Food and Drug Administration The Federal Fish and Wildlife damage crops causing food pirc- the United States todiv there Service also must evaluate the es to increase To immediately data presented and make a final judgement A chemical that has any questionable effect on the great degree of variation within test species is discarded

Other Important Control Methods

control include many nonchemic ia, and degradation and detoxial methods Parasites to help fication by environmental influeliminate certain harmful pests ences such as sunlight, plant en-(such as the alfalfa weevil, gyp zymes water, soil colloids, intisy moth, and cabbage looper) cate chemical combinations and are being reared and studied recombinations, organic matter, Crop varieties resistant to pest and microorganisms Specifically attack are being developed Life the insecticide methoxychlor has cycles of pests are studied to find a chemical structure similar to the "weak link" in their growth DDT, yet it is comparatively noncycle, at this point, control is toxic to warm-blooded animals,

areas of commercial fruit pro vironment duction The practice of continu. . ous cropping has had advantages, point of no solution Crop rota tion helps to control certain pest taining the population at a level of minor economic importance

The Use Of Chlorinated Hydrocarbons

The use of pesticides has alhazard is created, and yet without them, pests would severely would be unwise There is a this class of pesticides that is not such items as mammalian toxi-Different approaches to pest city, persistence in various medusually relatively easy Sterility, being about 1/, as toxic as common table salt It also quickly decomposes into haimless components Methoxychloi is an effective insecticide and can still serve to control pests without serious injury to desirable species Other chlorinated hydrocarbons - lungicides and herbic des as well as insecticides — fit into inis same category

Improved chemical control may be achieved by adjusting, spray recommendations Chemicals with shorter residual life a e replacing other materials in most met inces but here again reosts will be sace ficed and application me'tods must be carefully waterer New spray techriques with applications in rates of only a few ounces per acre are available. The chemical is directed specifically to the pest but has little effect on non target or ganisms statemic pesticides also provide e-cellent control of the pest vithout the eat of spiny drift or hazard to wildlife Scientists are looking tor materials and techniques that will enable a grower to select a short residuel chemical and queet it at the pest species a the most vulnerable per od of is nie span

At the same thre users of pesticides will be required to observe the utmost in salety p.ecautions - first to protect themselves and others from accidental pesticide poisoning second to be certain that all registered uses are followed to keep chemical residues on crops at a manmum and lastly to see that no undue environmental contamination occurs from his application methods Further attention will be required to, pesticide storase and disposal Any taleat to ground water suppries must avoided before accidental co tamination results. A moderate cuitailment of ceitain chloring ed hydrocarbons is to be expect ed within the near fature. At present, no chlorinated hyd c carbon pesticide (except meth oxychloi) is recommended to, any phase of meat or m lk p auction Replacements will vil i mately be necessary for DDT,

attrac', n' repellant, and hor BHC Lindane Aldrin, Dieldin, mones are methods being tried Endrin Heptachlor, and Joyland used on various insectispe, peene for use about a contain p oduc, on of food, fib shelter, dies Vong with non-chemical pest species. With the rept cemethods is a system called in ments users must a lab obtograted control where natural jective and carefully versholdpredators and parasites are en vantages, and disidvad ares in couraged to wage war on the each instance. Many cocanical pests, so only a minimum of uses can be maintained without chemical pesticides is required fear of doing serious harm or This has been successful in some injustice to wildlife and the in-

Meeting Food Needs

When man learned how to conbut this has also increased post quer plant and animal posts withmation from registrations, reguportunities came to develop agriculture, improving both quality species by changing the habitat and quantity of food and fiber. Successful pest control has helped to improve agracultural efficiency, freeing labor to help create other economic opportunities The sustained economic growth of any nation depends on how well its people can obtain ways presented a paradox By their food requirements Or all using them a certain degree of human needs, food and shelter come first

Let's look at a few figures. In are over 200 million people that ban all chlorinated hydrocarbons have to be fed three times a day with milk, meat grain fruits and vegetables If this flow of food were cut off as little as clearly understood and must be two weeks, there would be punic considered These factors include in the market place! Ev the year 2000 AD US population will be past the 250 million mark and to feed, clothe, shelte and protect this population is still a tremendous challenge to modein agriculture. Upwards of 250 billion pounds of food a year will be needed by 2000. Without pest control this task would be formidable, if not impossible

There are no known indications that present levels of pesticide usages in Pennsylvania (Continued on Page 10)



earn a cash dividend through



This special pre-season program pays you cash for buying early. The amount you get depends on the machine you buy-and when you buy it. The earlier you buy, the bigger your dividend. Program starts November 1, 1968, and goes through February 28, 1969.

Eligible machines include: Automatic Bale Wagons and Stack Retrievers @ Balers @ Combines @ Crop-Choppers

Forage Blowers

■ Forage Boxes and Crop-Carriers • Forage Harvesters - Hay Conditioners • Mower Conditioners • Mowers ● Rakes ● Self-Propelled Windrowers.

Program applies to new machines only. Stop in soon for complete



L. H. BRUBAKER INC.

R. D. 3, Lititz, Pa. 350 Strasburg Pike, Lancaster Ph: Lancaster 397-5179 Strasburg 687 6002 Lititz 626-7766



COMPARE AT CASHWAY

We stock quality, name 🕏 brand building materials. It is not necessary to § wait for a "sale" to 12ceive a good value at a
CASHWAY. Our prices
are low...everyday.... the year around.

WHERE YOUR DOLLAR GOES FURTHER

COMBINATION

By Weather-Seal



MARKOV HIGHLITE ALUMINUM STOCK SIZES Pre-Hung for EASY INSTALLATION

ASPHALT ROOFING RUBEROID

240 LB. Seaf Tabs 50 LB Smooth Roll 90 LB. Mineralized

Sq 7.19 Ea 2.05 Ea 3.15

TRIPLE TRACK STORM WINDOWS



EACH

Standard

Sizes

PANELING

PRE-FINISHED LAUAN 4X2 SHEETS New Lower **Reduced Pri**ces

Delivery Available Haul Your Own And Saye . .

3 Miles East on Route 340 (2275 Old Philadelphia Pike) Lancaster, Pennsylvania



OPEN 7 30 to 5 30 SIX DAYS A WEEK

Phone: 397-4829 Phone: 397-4820