Livestock Poisoning by Pesticides Now Can Be Diagnosed More Easily

Occasional but expensive live- toms were found in acue poisonstock poisoning by insecticide, ing and herbicides has led USDA to study and develop some guides in dealing with this hard-to-diagnose type of ailment.

The newer chemicals are a boon to agriculture. Most of them livestock feed and can be so used safely. But poisoning can occur when animals are allowed to eat overtreated plants.

THE CHLORINATED hydrocarbon insecticides are an example They include the well known and widely used DDT, TDE, methoxychlor, benzene hexachlor 150drin, and endrin These act primarily on the central nervous sys tem - produce many symptoms from severe depression to violent convulsions and death by respiratory paralysis In autopsies on mildly poisoned animals, the liver, kidneys, and sometimes the brain were found to be affected But surprisingly few such symp-

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Diagnosis of poisoning by the chlorinated hydrocarbons should be made only after thorough study of the history, symptoms, length of exposure, and lesions. Veterinarian R. D. Radeleff of are used on crops intended for the ARS entomology research station, Kerrville, Texas, found this is necessary That's because fully a third of the test autopsies failed to reflect the ailment, even where severe toxic symptoms were pres-

IN MAKING AN autopsy diagnosis of suspected chronic poison-11.g, 1t's better to analyze the stomach contents ather than the tissues, for excessive amounts of poisons. Or if the animal has been hair rather than the tissues The animal may have accommodated itself to chronic buildup of poisons in the tissues but may actually be suffering from serious disorders such as rabies, pseudo rabics, encephalities, and salt poison-

Animals that show clearcut symptoms of poisoning by chlorinated hydrocarbons will usually recover completely if provided a quieting agent, soothing environment, good nursing care, and iresh, uncontaminated feed

ORGANIC POSPHORUS compounds are closely allied to the nerve gases developed for chemcal warfare These compounds include parathion, methyl parathion, malathion, Dipterex, chlorothion, Guthion, and others. They act primarily by adversely affecting the animal's nervous system. Animals so poisoned breathe with difficulty, slobber, and stiffen Spontaneous recoveries are common if the poisoning isn't severe or if recovery isn't interrupt ed Autopsies on poisoned animals show only some swelling or con-

Wheat Penalty Rate \$1:09 On 1958 Excess

The US Department of Agiaculture recently announced a marketing quota penalty rate of \$109 pc1 bushel on "excess" wheat of the 1958 crop.

As directed by law, the rate of the marketing quota penalty is 45 per cent of the parity price per bushel of wheat as of May 1 of the calendar year in which the crop is harvested. The current parity price for wheat is \$2 42 per bushel

Growers approved marketing quotas for the 1958 wheat crop on June 20, 1957 When wheat marketing quotas are in effect, a farmer who does not comply with the wheat acreage allotment established for his farm is subject to a penalty on his fam marketing sprayed, it's better to analyze the excess, unless he harvests 15 acres or less or has signed an agreement permitting him to produce up to 30 acres of wheat for feed use on

Wheat produced on a farm have

gestion of the lungs

Atropine sulfate is a good anti dote for organic-phosphorous pois oning But it must be given in large doses -- about one-forth intravenously and the rest subcutaneously or intramuscularly Re cently, 2-PAM (2 pyramidyl aldo xime methiodile) - preferably administered with atropine sulfate - was found to be especially good in parathios and diazinon poisoning

Amount of insecticide applied to the crop is as important as toxicity in evaluating the chemical's angers. Some highly toxic insecticides are safe because they are used in such small quantities on crops that it's almost impossi blc for animals to get enough to be poisoned. But some of the less taxic compounds become dangerous because of the much greater quantities used on crops Important, too, is the size of the chemi cal particles. The larger the par ticles in the emulsions, the greater the deposits on an animal's

Many farmers don't understand the effects of concentration and erpticle size on animals. Plant chemicals generally deposit more oxicants than o livestock preparations Even thogh pesticides are properly manufactured, they may be misused Plant chemicals often are used on animals This has led to some of our greatest livestoc's

HERBICIDES HAVE rarely been known to poison livestock despite claims to the contrary, according to Radeleff. The fact that herbicides are used to kill foliage limits the palatability of the treated plants. The only danger lies in consumption of freshly treated plants. And this can be avoided by removing livestock from the treated area for one or two weeks at most The large dosages of these compounds required to poison also limits the dangers of their

Pentachlorophenol — used to defoliate cotton and to preserve wood — was found by Radeleff to be lethal for calves up to a year old at 10 milligrams per kilogram of live body weight and mildly toxic at 25 mg per kg. Sheep were killed by 200 mg per kg, recovered from 100 mg per kg, suffered nuldly from 25 mg per kg. Anımals aren't apt to eat too much.

LIGHT APPLICATIONS of the algacide Delrad in ponds weren't hermful to cattle or sheep when they drank water containing 100 parts of the chemical per milion. Cattle showed severe poisoning at doses of 250 mg. per kg; young calves were severely affected by 150 mg. per kg; and sheep were affected by 500 mg. per kg.

Work elsewhere has shown that 2,4-D and 2,4,5-T (common weedkillers) and their derivatives aren't very toxic. Cattle, sheep, cows, and swine were pastured under test on foliage treated at higher than normal rates with no harmful effects The toxicity of arsenical compounds is well established A few are still used and doubtless will continue in use for specialized work

Large Number of Broilers Likely Next Year as Pullet Placements Rise

of broiler chickens next year are lice seeming more certain with the release of the April broiler pullet placement report this week

ing a farm marketing excess is not eligible for price support.

The national average minimum support price for 1958-crop wheat is \$1.78 per buch, which was 75 per cent of the April 1957 parity price with a transitional adjustment The final average support price for the 1958 crop will be 75 per cent of the effective parity as of July 1, 1958, if this is higher.

Dozen DHIA Openings Now In Solanco Area

Dairy Herd Improvement Assn memberships are being sought for Assr 10 in the Quarryville and southern Lancaster County area, according to Victor Plastow, associate county agent

Plastow said Monday that the new record year begins June 1

A new tester will be hired for the area and the association hopes enough work will be available to make it a full-time position

At least a dozen herds can be added to the association, Plastow

Dairymen interested in joining Assn. 10 should contact Plastow at the Lancaster County Agricultural Extension Office, 202 Post Office Bldg, Lancaster.

Prospects for larger numbers; by the state Crop Reporting Sery-

Ten of the largest primary breeders of broiler replacement stock placed 3,320,000 thicks in April, nine per cent more than the 3,033,000 pullet chicks placed in April 1957

Pullet chick placements by these 10 breeders during the first four months of 1958 totaled 10,690,000 - 13 per cent more than during the same period of



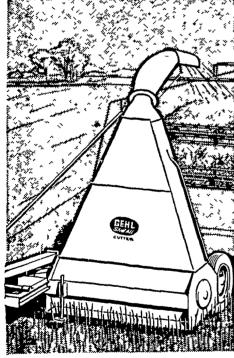
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