Farm Drainage Assistance A farmer applies for this buildings) up to a total or

by E. M. Wrubleski

Farmers in Haldimand County are realizing more and more the benefits that drainage could have on their farm. Many are asking about what assistance is available for eht construction and systems, three means of assistance will be discussed

The Municipal Drainage Act: This Act is administered by the local township. Its purpose is to provide a means by which a covered drain or open ditch can be constructed to engineering standards between two or more landowners. There are certain legislated procedures by which the drainage system is requested by landowners - approved by council - designed by a professional engineer ratified by the landowners - made a bylaw and maintained in the future.



objective body

to each landowner meeting is called to discuss according to the amount of the drain. If a majority are to 75 percent of the cost of water his land contributes in agreement, a by-law can the work. He has up to 10 and the amount of benefit then be passed. Tenders are years to repay the loan.

The drain is maintained construction. ipon request of one of the landowners and decision of This Act is also borrowed.

The provincial government pays a grant of one third of the cost assessed against agricultural

type of drain are: It will likely be more

costly than a mutual

agreement ditch. It may take longer to get it constructed because of the administrative and legal details.

How do a group farmers go about getting a drain started? First of all, they must contact the local township clerk to get a petition form. The form must then be signed by a majority of landowners on the watershed which requires drainage. Generally majority of landowners first and last landowner on a watercourse which requires

The council may now act on this petition and appoint an engineer. He does a survey on the watercourse,

when the engineer's The rate is now four then let for the Over the 10 year period the

The Tile Drainage Act: \$12.33 per year per \$100

of the Municipal Drainage landowners have certain township. The purpose of loan on a form available landowners have certain township. The provide a from the township clerk. He the drainage workd prights of protest against the this Act is to provide a from the township clerk. He the drainage workd prights of protest against the this Act is to provide a from the township clerk. He the drainage workd prights of protest against the this Act is to provide a from the township clerk. He the drainage workd prights of protest against the this Act is to provide a from the township clerk. He the drainage workd provide a from the township clerk. rights of protest against the rights of protest against the means of financing tile must make application \$1500 a grant of 100 drainage on agricultural land The farmer must declare These rights are explained at a favourable interest rate. ownership and freedom from encumbrance. The A farmer may borrow up

Capital Grant: This is a grant of \$1000 which is available from the provincial government. This grant contact the local office. repayment schedule is covers one third of the cost the Ontario Departmen of drainage (and/or Agriculture and Food

cutting is usually 5-10 days

Cutting at the required

of \$3000. In other words would be received. If drainage work cost to or more, a grant of \$10 would be received. In eligible for a grant drainage work must be

to proper standards. For more information these Acts and

Alfalfa Weevil In 1971

Encouragement may be by K. Bereza The alfalfa weevil is now taken from the decline of present in all of Southern the weevil to harmless levels Ontario (40 counties). It is in Quebec and in several expected that one-half of north-east states where the alfalfa grown therein parasite numbers have built will require a control up. Although parasites are measure in 1971 to prevent not a significant force in excessive losses. The Ontario at present, they are counties closest to the lake the long term hope.

are the most heavily Two other approaches in Although this pest has immediate value. When become widespread and 25-50 percent of the leaves serious, the alfalfa grower in an alfalfa field show should not feel helpless. feeding damage cutting the Several approaches to the alfalfa early, is the easiest management of the weevil and recommended way to control the alfalfa weevil. In addition to combatting

also because of some

states. As the populations of

they may exert a

considerable influence in

checking the weevil are of

time to control the pest may not always be possible due to interference from other farm work and wet weather. It may be necessary to consider an insecticide, especially when difference in infestation the weevil infestation is different parts of a fell

It should be noted however, that a two year study in Ontario has established that a forage stand must be at least 50 percent alfalfa before a weevil are now established the insect, this practice profitable return is obtained in Ontario as a result of increases the value of the from applying an releases made in 1970 and forage since "forced" insecticide.

The larvae (worms) w cause the damage be abundant during late Mar early June and free inspection of fields at time must be made properly time a or measure. In addition parts of the field should examined since there

may occur to cause dam

If injury is readily seen

spray should be appl

provided the forage start

one-half alfalfa.

often a considen Atrazine mixtures give better overall control than any one well as from field to f se chemicals used It is also essential Sutan also gives good check the regrowth t of nut grass and fair damage was present on of horsetail, two which sometimes substantial larval cam

in corn. Sutan-Atrazine must be applied re planting and iately worked into oil with two double or cultivations at ngles to each other. If possible to work a field crossways, it be worked twice

ipment is now that can be or to apply the spray field is worked, thus the necessity of two tractors, one the sprayer and following with the

works best when dry weather follows may be delayed,

l-Atrazine has been turns too wet to spray after excellent control of

leaf annual weeds in The Lasso-Atrazine but sometimes mixture should be applied rass, foxtail and old as soon as possible after grass escape, causing planting, before weeds or corn emerge. It is most problems. This is effective if at least 1/3 of an cially true if dry inch of rain falls within 10 days after application.

ol if applied when the wo leaf stage. times other farm break downs or wet her delay spraying, ng in poor control. ou have this problem, using Sutan or two chemicals which od control of annual Their weakness is they miss some eaf weeds such as lamb's quarters

s yield reductions and

er follows spraying.

-Atrazine gives better

ustard. Atrazine, on

of broadleaf weeds

ther hand, gives good

sometimes misses

an-Atrazine or

Howard Henry. (ODAF

If it stays dry, and seed bed moisture was low at time of spraying, weed control may be poor. Lasso does not have to be worked into the soil like Sutan but it is more likely to fail in dry weather

A new herbicide called Bladex will be for sale in 1971. It must be applied as soon as possible after planting, before corn or weeds emerge. Bladex applied alone usually gives good control of most annual broadleaf weeds and grasses. However, it sometimes misses pigweed and barnyard grass. Atrazine is good on these two weeds but misses crabgrass. Bladex, on the other

hand, is good on crabgrass so Bladex mixed with Atrazine usually gives better overall weed control than either chemical used alone. Bladex works well on coarse-textured soils such as sandy and silt loams but is not sufficiently active to to a dry soil surface heavy clay or muck soils. very effective even Bladex should be applied to a level, firm seed bed and is seven to ten days application. If rain does not

using Sutan, Lasso or Bladex mixed with Atrazine is that the rate of Atrazine can be reduced, thus decreasing the risk of Atrazine injury to other crops seeded the following spring. Sutan, Lasso and Bladex are short residual chemicals which break down in the soil during the growing season in which

they are applied.

Sutan, Lasso and Bladex do not control perennial quackgrass, just annual grasses which grow from seed each spring. If quackgrass is the main weed problem and corn can be grown for three years, Atrazine should be applied in the fall or early spring on actively growing quackgrass foliage, the land plowed, corn planted and Oil-Atrazine applied when the annual grasses in the corn crop have reached the one to two leaf stage. Corn must be grown for three years following this treatment because Atrazine residue will damage other

crops during this time. If it is desired to grow corn for one year only and still control quackgrass, apply Amitrole T on actively growing quackgrass foliage in the spring. This chemical disappears from the soil shortly after application, so will not damage the corn or other crops grown the following year. The Amitrole T treatment is followed by Oil-Atrazine applied when the annual grasses in the corn have reached the one to two leaf stage. If no more than two pounds of 80 W Atrazine product is applied per acre, crops other than corn can be grown the following year with little

risk of Atrazine injury. One of the first herbicides used in corn was 2,4-D. This still gives good control of many broadleaf annual and perennial weeds but has little or no effect on annual grasses or quackgrass. In fact, 2,4-D can actually hasten the build-up of grasses in corn other weeds and thus leaving the grasses with no

Chemical Weed Control In Corn

2,4-D can seriously injure corn if applied overall after the corn is six inches tall onto the emerged weeds (leaf extended), especially if when the crop is one to two the corn is growing rapidly. Injury by 2,4-D makes the Kill-Mor and Banvel 3 stalks brittle and causes also give good control of twisting of thr roots.

field bindweed, wild

buckwheat and smartweed.

Again, they should be

applied with drop-pipes,

under the corn leaves, onto

the emerged weeds when

the corn is one to two feet Canada thistle may be a For full information on problem in corn fields. It these treatments, including can be controlled with rates of chemical to be used herbicide products such as per acre, refer to Ontario Department of Tropotox plus, Embutox E, Publication 75 - "Guide to Agriculture and Food." Banvel 3 and Kil-Mor. They Chemical Weed Control,"

sometimes resulting in

lodging. If 2,4-D is used.

apply the amine form and

use drop-pipes to direct the

spray under the leaves if the

crop is past the six inch

drop-pipes which place the of the Ontario Department spray under the corn leaves of Agriculture and Food,

> For complete information on weed spraying, always follow the instructions on the herbicide container very carefully and refer to Publication No. 75 -"Guide to Chemical Weed

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