Haldimand County? This show whether the increases question has been asked were significant. many times over the years The results of four years

Why has this increase costs, it is difficult to to explain the increase:

- There is a trend to the installed. requires a highter acre field, a farmer might and fertilizer. This investment must be protected by improved planting, growing and harvesting conditions.

There is an increase in the size of the field machines. A farmer cannot afford down time in the spring and fall because of poor field conditions when he has such a large investment

- A farmer is less able to withstand crop failures than he once was. The demands of taxation and creditors are

increases land values. be listed as follows:

- Increased crop yield because of earlier planting

swales and ditches can be matured in 1970 may also reclaimed. This increases be included provided that yields and makes fields the fair market value of the easier to work.

chance of getting onto the land with manure.

What do expe test plots tell us about increased yields due to systematic tile drainage? Halton County on Haldimand clay show an average yield increase of 20 bushels of corn per acre per year. The tile runs were spaced 40 feet apart. These studies also showed increased yields of hay and **WABISA MUTUAL** 

Does tile drainage pay in were not enough results to

by farmers in the county. of tests in Elgin County on There has been serious Conover clay, Haldimand doubt that yield increases Silt and Beverly Silt loam would cover the cost of showed an average yield installing tile. Costs of increase of 16 bushels of outlets also had to be corn per acre per year due considered. It does appear, to systematic tile drains. though, that more and more None of these tests took farmers have been installing into account savings due to tile in the last two or three better operating conditions. When we look at tiling

come about? Perhaps the predict what the total cost following factors may help per acre might be. This varies from farm to farm. - The price of land is Roughly speaking, for going up. It is becomeing random drainage of runs, less expensive to improve the cost could be estimated land than to buy more land. at 25c per foot of tile

For example, on a 40 count 12,000 feet of runs to be tiled. The cost would be 12,000 x 25c which equals \$3,000 total or \$75 per acre. Systematic tile drainage at 40 foot spacing

range of \$275 per acre. The yearly payments on a \$275 loan would be around \$40 per acre per year for 10

The Basic Herd is determined as the number - Farmers are of animals or their recognizing that tiling replacements, expressed in terms of mature animals, Stated another way, the which have been acquired benefits of tile drainage can without reducing income which is subject to tax.

To increase an existing Basic Herd an application to and better use of fertilizer. "Increase Basic Herd" must - The land is easier to be filed before April 30.

work. Harvesting conditions 1971, for the year of 1970. Natural increase animals Unused or which matured in 1970 and low-producing land such as purchased animals which animals is added to the 1970 income.

> If you are not on DHIA or ROP your sales are low to start with becasue the cattle don't have records. you may know the "run the pail over cows" but how do they do over 305 days, that's what counts!!

There are still openings in DHIA and ROP. If you're interested contact the Agricultural Office, Cayuga.

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# Benefits And Costs Of Tile Drainage by E. M. Wruhleski Silver St. Land Costs Of Total Costs of Food for

Drainage Act. In order to financial assistance in the offset this cost by increase form of capital grants. of yield of corn, another 30 Information is available on bushels or so of corn would the use of the Tile Drainage have to be harvested per Act and Municipal Drainage Act to finance tile drains Despite all the benefits of and open ditches. Technical drainage the cost may not assistance such as surveying. be easy to recover on the is also available.

Other sources of practical basis of increase in crop yield. This goes for information should be systematic tile. However, investigated before making a most farms have depressions decision on tile drainage. and runs which could Talk to your neighbors. definitely be drained at a Watch the results of the profit. These should be demonstration in tackled first. Then other conjunction with the areas could be drained as International Plowing the benefits become Match. Try some test plots evident. Eventually some of your own. With this farms would end up information it should be systematically drained. possible to come to the Contact the office of the right decision on tile Ontario Department of drainage for your farm.



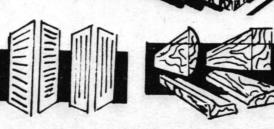
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## Low Butterfat Test

is well ensiled, usually with winter there appears a "rash" of herds a very short cut, to aid the iencing a drop of one silage process and to increase the tonnage in the rfat test. The first silo. The grain ration is well ing" of a fat depression balanced and ground fine. ually (the next milk The cows are milking well ne) from the Ontario and everything looks ship-shape until the deflated herds on DHIA and milk cheque arrives.

Experience has shown tests substantiate the usually the real good who experience depression. Their excellent in quality, of the grain ration.

Villa Tova

by Harold Clapp

Marketing Board.

may be aware of the

ion much sooner and

that in trying to solve this problem, changes usually have been made in the feeding schedule, the feeding program, the quality of the forage, or the texture

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production. In the digestion of fibre

> and corn silage which is finely chopped, will be lower in fibre and will tend to speed up passage rather than slow it up. Cows on this type of diet, or on lush pasture will eat a few mouthfuls of straw or

Feeding large amounts of grain, will reduce the amount of acetic acid produced, by reducing the amount of forage consumed. Large amounts of grain consumed will increase the propionic acid produced and thus could bring the acetic to

in her stomach. This enables fat depressint area. her to consume and digest The common large amounts of roughage

and this can be her main source of nutrients. In normal roughage rations, the roughage will supply sufficient fiber to slow up the movement of feed through the digestive system and thus allow more time to absorbe the nutrients for butter fat

the cow will make a cud and in cud chewing will release fairly large amounts of saliva. This process increases the proportion of acetic of acetic to propionic in the rumen to about a 60-20 decrease the fat in the milk

Hay and haylage of

recommendation is to feed the grain ration as course as of hay from after the possible, and where large amounts are being fed, try and feed in several feedings rather than only two. Feeding the grain in pellet form, has proven to lower butterfat in some cases.

The advantages of fibre content of forages are reduced if we cut or chop the hay short, and if the corn silage is cut fine, especially immature corn

A herd in Lamoton ground corn and cob meal. exceptionally high quality, The hay was high quality and the corn silage was fairly mature, but finely

The feeding schedule was to feed the concentrate at concentrate ration. We have the morning milking release the cows to the new bunk to do well on a cow's ration. feeder for a full feeding of coarse hay in order to adjust corn silage then tie the cows expect a cow to do well on up to a feeding of high a soft finely ground ration quality hay. The cows suitable for a pig. returned to their normal 3.7 The amount and balance percent, very quickly after of protein and energy will the feeding schedule effect the amount of milk included a feeding of coarse produced, but there is no hay before the grain ration evidence to show their was fed each morning.

This situation was The cow has "four identical to one in stomachs", if we use all four Middlesex county. The the chances of a normal depression was blamed on butterfat test are much Zenith Handcrafted 26" Giant-Screen Chromacolor tv

Magnified drawing of conventional picture screen before Chromacolor,

agnified drawing of Zenith Chromacolor picture screen.

morning milking (before turning out to the feeder) to a noon feeding. This is not meant as a knock against the full feeding of corn silage. It merely means that if we are to depend on corn silage as our chief forage, we must harvest at the dough stage and chop it coarse enough

to provide the bulk and fibre necessary. Many of the problem herds are using a County recently concentrate high in corn. acid, and will bring the ratio experienced a fat The addition of the cob will depression, to the extent, add fibre and help where a is probably high on the list where the herd average was proglem exists. If this is not of those which cause most ration. A narrower ratio can 2.4 percent. The cows were possible, the addition of crop losses each year. on a well balanced grain oats could be a Chemicals are now available ration based on finely consideration. A high which can go a long way

> is designed to handle a problems if we expect a pig We will have problems if we

effect on milk composition.

normal speed and both the grain ration and the forage should be coarse enough to take full value from the cud.

Control

percentage of wheat in the towards eradicating this grain ration has proven to effect the butterfat test

The dairy cow is designed to handle roughage; the pig

Quackarass

one of her "stomachs."

The ideal ration should

supply a maximum amount

of dry matter each day. The

feed should be in a form so

that the passage through the

digestive system will be at a

by Howard Henry Of all weeds, quackgrass persistent perennial.

If corn can be grown for three consecutive years in the same field, excellent control of quackgrass can be obtained by applying 21/2 pounds of 80 W Atrazine per acre sometime between September and November.

Corn is planted the next spring and then another 21/2 pounds of 80 W Atrazine plus 11/2 gallons of Atrazine-type oil is applied when the annual grasses in the corn crop are at the one to two leaf stage. Corn must be grown for three years following this treatment becausy Atrazine residue will damage other crops during this time.

If it is desired to grow corn one year only and still control quackgrass, Amitrole T can be applied in the spring.

Apply one gallon of Amitrole T on actively growing quackgrass foliage early in the spring. Plow or cultivate one week later and plant corn. When the annual grasses reach the one to two leaf stage, apply two pounds of 80 W Atrazine plus 11/2 gallons of Atrazine-type oil per acre. Crops other than corn can be grown the year following this treatment with very little risk of Atrazine injury.

If crops other than corn are to be grown in the current year, Atrazine cannot be used because it kills or damages practically all crops except corn.

Apply Amitrole T at 1½ gallons of product per acre on actively growing quackgrass foilage. Wait at least 10 days and then plow the field.

Row cultivation after these treatments usually improves quackgrass control, especially if dry weather follows spraying.

The above treatments range in cost from \$11 to \$16 per acre for chemical. This may seem prohibitive at first glance, but one should remember that quackgrass, one of our most competitive weeds, is being. controlled with no interruption in crop production.

The cost of leaving the land fallow and cultivating to control quackgrass will almost certainly exceed the cost of chemical control. In addition, the treatments applied in the corn crop control annual weeds as well as quackgrass.



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