#### Bronze Cutworm Is Causing Trouble In **Fundy Marsh Land**

Periodically Appears and Destroys Hundreds of Acres.

By Press and Publicity Division, Department of Agriculture, Ottawa, Ontario.

The bronze cutworm is a periodic insect enemy of grass on the marsh lands about the Chignecto Apples Are Thus Produced by isthmus at the head of the Bay of Fundy in the Maritime Provinces. At intervals of five or six years, outbreaks develop which destroy the grass on some hundreds of acres of meadow during the first three weeks of June. These out- Eastern Canada is fraught with a breaks commonly last three years, appearing as scattered local outbreaks the first year, becoming breaks the first year, becoming severe winters. Whilst some of severe winters. more extensive in the second year this loss has been overcome by and dying out in the third year the selection of hardier varieties from the effects of natural con- much of it is still apparent in the trol agencies, parasitic enemies, form of trunk injury and sunpredators, and diseases. Usually, scald. The variety of McIntosh they are confined to the area be- has been particularly susceptible tween the Tantramar and Aulac during the last two years and Rivers where there is a body of marsh land some 24 square miles badly mutilated and serious afin area. At longer intervals, 20 fected as economic producers for to 35 years, more extensive outbreaks occur, extending over all years to come. eral rivers which flow into the ed upon as one of our hardiest head of the Bay of Fundy. Local sorts, and rightly, as it came outbreaks occurred on the central through this last severe test with body of the marsh land in 1921- a small amount of bud injury 22-23 and 1928-29-30, covering a and very little top injury. With few thousand acres.

festations on not only the central ter injury, it avails little to have body of marsh land between the top portion of the tree come Tantramar and Aulac Rivers but through in good condition. on the marsh lands along the To discard a variety like Mc-Maccan, Nappan, La Planche, Intosh on account of this weak-Maccan, Nappan, La Planche, Intosh on account of this weak.

Missiquash, Memramcook and ness would be a calamity, since other of the other other other of the other other other other other of the other othe Petitcodiac Rivers in Cumber- at present there is no other land County, N.B., and also on ally replace it in our orchards and AS mash lands near Riverside in markets. and in addition an equal amount working. was damaged by feeding.

meadows between Nappan, N.S. age may be avoided.

marshland owners.

the local newspapers to warn all injury. marshland owners in the area take steps to protect their hay due to leaf spot fungus preventing crease of commercial dairy protect their hay due to leaf spot fungus preventing dairy protect their hay due to leaf spot fungus preventing due to leaf spot fungus preventing due to leaf spot fungus preventing dairy protect their hay due to leaf spot fungus preventing due to leaf spot fungus prevent

### AGRICULTURE 2

#### Hardy Trees Used As Base For More Delicate Varieties

Means of Grafting.

By M. B. DAVIS, Dominion Horticulturist, Ottawa, Ontario.

Apple growing in every part of many trees of this variety are

McIntosh has always been lookmain limbs badly sun-scalded An outbreak developed in 1935 and large areas of bark on the and appeared in scattered in trunk loosened, as a result of win-

land County, N.S., and Westmor- variety in sight which could actu-

Albert County, roughly, an area There is, however, available a 30 miles by 20 miles in extent. A method whereby much of this survey in June showed the grass type of injury may be eliminated. on about 2,000 acres destroyed This method is called double-

Natural control features were varieties of long standing which not operative to any marked ex- do not show any appreciable tent and a large number of moths amount of trunk injury or sundeveloped on all the local infested scald in the crotches of the main areas to deposit eggs. The records limbs. By using these varieties for the months of September and for the purpose of building the October giving the numbers of main framework of the trees, and

#### WILD MUSTARD **ERADICATION**

Wild mustard, an insidious weed which grows prolifically throughout Canada on farms and waste places, is one of the commonest and most injurious of the mustard family. A single plant will produce from 15,000 to 20.000 seeds, and a single plant of tumbling mustard is credited with being able to yield 1,500,000 seeds. Eradication of mustard from badly infested land is very difficult as seeds lying several inches below the surface of the soil are capable of retaining their viability for many years without ger-Indeed, experimination. ments have shown that mustard seeds can germinate after having been buried in the soil for forty years. Mustard seeds which have been ploughed under in previous years may be brought to the surface by subsequent cultural operations. In view of these and many other facts, a pamphlet dealing with the eradication of wild mustard has been issued by the Dominion Department of Agriculture, Ottawa, and may be obtained free on application.

# ilk Producer

in Grass-Grown Rocky Country.

By Press and Publicity Division, Department of Agriculture, Ottawa, Ontario.

raising in Canada consamples of sod taken from the variety desired, much future dam- tinues to expand in all the prov- Used To Take Place of Ex- offspring, particularly the sons of th inces. In Northern Ontario, parand Lutes Mountain, N.B., the The cost of this method is ticularly in the mining areas, the general average was 32 eggs per greater at the outset it is true; goat is coming more into prominsquare foot. On the central body more time and labor are involved ence as a source of milk supply of marsh land between the Tan- in constructing the orchard, but for the miners' families. Liketramar and Aulac Rivers, 31 since permanency is better as- wise in the Maritime Provinces, samples showed an average of 61 sured and losses bound to be re- fishermen resident along rocky as feed for livestock and poultry which is conductive to high table eggs per square foot, with some duced the increased cost is well shores find the goat an economic is realized, much larger quantities quality. samples showing more than 20 worthwhile. The procedure is sim- asset. Indeed, Canada with a than at present employed will be eggs per square foot. Sixty per ply to bud or graft these hardier sufficiency of grass-grown rocky used. With high prices for stock this year to try to improve the cent. of these eggs had hatched sorts on seedling root-sticks, perat the beginning of October, 1935, at the beginning of October, 1935, the main limbs, four or five outbreak in 1936 would appear to be certain.

Since the provided in the produced and poultry feeds and a surplus of potatoes in Eastern Canada's market poultry feeds and poultry feeds and a surplus of potatoes in Eastern Canada's market poultry feeds and poultry feeds and a surplus of potatoes in Eastern Canada's market poultry feeds and poultry feeds and a surplus of potatoes in Eastern Canada's market poultry feeds and poultry feeds an Control experiments were carthe nursery to the desired sort, or transplant to permanent location and do the budding or graft.

Illumbering industries reach fartunity to reduce their feed bills laid on vigor, breed type and the by feeding potatoes. Other counqualities as outlined in the bulther into the northland, the milk by feeding potatoes. Other counqualities make much use of potatoes letin, without, however, losing portunely at this moment the as stock-feed. In Germany, for sight of the correlating qualities portunely, at this moment, the as stock-feed. In Germany, for sight of the egg-laying qualities ascertained, a tentative advisory

There are numerous very hardy committee, representing the Devarieties available, among them culture has issue a booklet (Bultotal potato crop is used for table of the male culture has issue a booklet (Bultotal potato crop is used for table of the male culture has issue a booklet (Bultotal potato crop is used for table of the male culture has issue a booklet (Bultotal potato crop is used for table of the male culture has issue a booklet (Bultotal potato crop is used for table of the male culture has issue a booklet (Bultotal potato crop is used for table of the male culture has issue a booklet (Bultotal potato crop is used for table of the male culture has issue a booklet (Bultotal potato crop is used for table of the male culture has issue a booklet (Bultotal potato crop is used for table of the male culture has issue a booklet (Bultotal potato crop is used for table of the male culture has issue a booklet (Bultotal potato crop is used for table of the male culture has issue a booklet (Bultotal potato crop is used for table of the male culture has issue a booklet (Bultotal potato crop is used for table of the male culture has issue a booklet (Bultotal potato crop is used for table of the male culture has issue a booklet (Bultotal potato crop is used for table of the male culture has issue a booklet (Bultotal potato crop is used for table of the male culture has issue a booklet (Bultotal potato crop is used for table of the male culture has been decomposed by the male cul partments of Agriculture of the being varieties like Antonovka, letin No. 177) giving full informa- purposes, and approximately 40 special care should be taken in Dominion, of Nova Scotia, and of Hibernal, Charlamoff and the tion concerning the goat industry per cent. for stock feeding. On his selection. He should be the New Brunswick, was formed still hardier sorts, Osman and in Canada and how best to rear the other hand, in Canada 64.5 son of a high-laying large-egg Circulars giving the life history Columbia. Of these, considerable goats. The Province of British per cent. of the crop finds its way hen, and should be well-grown. of the insect and suggested con- s known of Antonovka and Hi- Columbia has the greatest number to the table and only about 11 per show good size and breed type. trol measures were sent to 1,800 bernal as being suitable for top- of milk goats in the Dominion, cent. for stock feeding. Stock and above all he should be vigworking. They both make very due no doubt to the mountainous raisers would be well advised to orous. In September, exhibits showing good crotches and have proved to nature of the province and the inform themselves on the proper While vigor may be denoted in the life history of the insect and be hardy enough for our eastern mild climate of the west coast. The methods of feeding potatoes in every section of the bird—the the nature of the injury caused fruit districts. Where vigor is were prominently displayed for essential, that is, a large and two weeks in both Sackville, N.B., quick growing tree, Hibernal perand Amherst, N.S. The advisory haps is the better. In addition committee on control was defin- t makes admirable crotches with suited to all climatic conditions therefore, as a substitute for bar- dicated by a bright prominent eye itely organized in October and has nice right angles, which will not of the Dominion, provided reasonapproved the cultural control break down very easily. Either able care is bestowed on them. In pigs, in which case it is import- the kind of a male that should features suggested in the circulars Charlamoff, Hibernal or Anton- most of the other Provinces, goats and to bear in mind that four give results when mated to equally already sent out. The committee ovka, however, should prove much are kept as a rule by truck gar-pounds of potatoes are equal to carefully selected females, has also advised that further ef-forts be made through meetings. McIntosh and other varieties subexhibits, and the co-operation of ject to bark splitting and crotch northward in Ontario and Que-Generally speaking tomato dis- the poor man's cow, for not only that the ferns are in need of a of the bringing in of disease, is able denger of loss in 1936, in eases are not usually very serious, is its milk of high dietic value but rest—all plants require a rest for to purchase pedigreed hatching order that they will be able to but there can be considerable loss every year in Canada sees an in- a period similar to that which eggs or day-old chicks, and select

#### Wax Plucking Of Poultry Is Making Rapid Progress

Chief Reason For Popularity Is Its Cheapness.

By Press and Publicity Division, Department of Agriculture, Ottawa, Ontario.

One of the reasons for the popular adoption of the wax plucking of poultry is that the process is not an expensive one. Recovery of 95 per cent. of the wax—a figure which can be realized without much difficultymeans a loss of about one pound of wax in the dressing of 40 average birds. The reclaimed wax may be used repeatedly. The reclaiming operation consists in simply melting down the pieces of wax, allowing the mass of wax and feathers to get quite hot, and then straining. A broad-bladed pliable knife, or even a flat stick. part of the residual wax out of feathers, pins, and other extraneous matter left in the bottom of the strainer. Slight changes do occur in the wax on long usage. but these will not be serious. states the bulletin recently issued on the use of wax in the plucking of poultry, and the farmer- Whole Future of Flock Deoperator will be able to use the wax almost indefinitely. Repeated melting and straining of the wax removes most of the dirt and keeps the mixture comparatively sterile. As the wax is used up. fresh wax may be added to keep up the volume. The bulletin may be obtained from the Publicity tawa, Ontario.

#### orking. There are some very hardy Found Particularly Valuable Potato Has A High may seriously affect the work of the future years as well. Value As A Stock breeding laws have been followed. Feed, It Is Shown the progeny test, and males and females that have been proved to

pensive Mill Feeds.

By Press and Publicity Division, Department of Agriculture, Ottawa, Ontario.

#### FERNS NEED REST

bec the goat is following the gold. In some cases the drying up of them. The goat has been well-named the fronds of hardy ferns suggests

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#### can be used to press the larger Only Best Stock Should Be Used In Poultry Breeding

pends on This Matter.

By GEORGE ROBERTSON, Central Experimental Farm, Ottawa, Ontario.

The mating of the breeding pen should be a matter of serious study, and careful consideration, and Extension Branch, Dominion for the success of future opera-Mining Areas and Extension Branch, Dominion tions depends more on this than Department of Agriculture, Ot- on any other phase of poultry work. Not only does next season's success depend on it, but it

If trapnesting and pedigree full advantage should be taken of the progeny test, and males and be breeders by the test should be used in future matings and the those matings that have proven best retained.

For many years the endeavor in breeding has been largely along high egg production lines and in many cases not sufficient atten-When the true value of potatoes tion has been paid to breed type

A drive has been inaugurated

The male is half the pen, and

It will pay those who have no such males, to purchase them from careful breeders who have

A safe plan to avoid all danger