kills and maims more human beings, destroys more property and stock than all cyclones, tor nadoes and floods combined. It causes 75 per cent of all fire losses according to official record.

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pair in the beginning of the season old pastures or old sod fields to lay many thousands of offspring may be their eggs in, hence the reason for the ter the ground for the winter. Conse- fields are broken up. Since the wirepotatoes are often completely stripped two or, in some cases, three years be-of their foliage and killed. fore changing into beetles, it is not safe

Means of Control.—In controlling these insects it is very important, first, to begin to spray early, as soon as any of the eggs are hatching out; and, second, to cover every leaf, so that the young insects may be killed almost as have a chance to do any injury. As in sod longer than two years. hatch at the same time, and as the adult antil the slugs were well grown, and, safe to plant potatoes or any other crop. therefore, much harder to kill than 4. White Grubs.—Large white grubs when quite small, or to not doing thor- with brownish heads and white, almost

The Colorado Beetle.—The most worms are the grub stage of the click familiar of all the insects that attack beetles that are seen flying and crawling potatoes is the Colorado Beetle, or, as around in large numbers early in the it is commonly called, the "potato bug." spring, before most insects have made So prolific is this pest that from a single their appearance. These beetles choose produced before they are ready to en- presence of the wireworms when such quently, it is no wonder that unsprayed worms remain in the soil as grubs for to plant potatoes in such soil inside of that length of time.

Means of Control.—There is only one really satisfactory way of keeping a farm free from wireworms, and that is young insects may be killed almost as by making a practice of a short rotation of crops, so that fields will not be left the plants grow rapidly, and produce any reason, a field has been left thus fresh foliage, and as all the eggs do not for several years, and it is desired to break it up, this should be done in the beetles, being hard to poison, continue fall of the year, as fall plowing and to lay their eggs for some time, it will be necessary to repeat the spray once or twice, until the insects are practically all killed. Fither one of the spray of the pupal-cases or freshlyly all killed. Either one pound Paris to sow rye the first fall, or barley next green or three pounds arsenate of lead, spring, and to seed it down with clover should be used with every forty gallons next year take off a crop of clover, and of Bordeaux mixture. Complaints plow down as soon afterwards as posabout the failure of arsenate of lead to control these insects can usually be treed either to lead to the control these insects can usually be the control of the control these insects can usually be the control of th raced either to leaving off spraying fall, and next year, as a rule, it is quite

transparent bodies, almost always curved into a circle or semi-circle, are the larvæ or grub stage of the well-known June beetles, or bugs that fly into the house through open doors or windows in June. Their life history is very similar to that of the wireworms, and, like the wireworms, they not only attack potato tubers, but many other kinds of

Means of Control.—The same means of control should be used as for wireworms, namely, fall plowing, and a short rotation of crops. If a few furrows are run and hogs are allowed to root in it freely, they will often destroy the pest more rapidly than any

other known way. 5. Potato Aphis.—In some parts

Use whale-oil soap, I pound to six Flea Beetles.—The potato flea gallons of water or common soap, one beetle is a very tiny black beetle, not pound to four gallons, or kerosene more than one-twentieth of an inch emulsion. Use plenty of pressure, so in length. It has the habit, when disass to drive the spray forcibly against turbed, of leaping from one part of the the insects, and thus make it more cerant to another. In addition to at- tain in its results. Repeat if neces-

tomatoes, cucumbers and many kinds 6. A number of other insects of less of weeds. Its presence can readily be importance sometimes attack potatoes recognized by the numerous little round Such plants are black blister beetles holes which it eats out of the leaf, leaf-hoppers, potato stalk weevils, These holes not only weaken the plants four-lined leaf-bugs, and occasionally greatly, but also allow the spores of species of cutworms. It is seldom, destructive diseases, like the Late however, that very serious loss is caused

which are very small and white, attack a successful producer of tubers. In part

"pimply potatoes." Do not grow potatoes too long on the Means of Control.—Poisons alone same land, but follow with roots or will not control these tiny insects, but vegetables, or perhaps with wheat, and if the arsenate of lead or Paris green is it is advisable to put 20 loads of manure added to Bordeaux, as mentioned to the acre every two or three years, above, the plants will be satisfactorily Varieties that give best results for late planting are Late Puritan, 3. Wireworms. When potatoes are Standard Freeman, American Wonder 3. Wireworms. When potatoes are planted in soil that has been broken of these the best results have been up from old soil, there will be danger for two, or even three, years of an attack or were fully so — Must reade to the form wireworms—slender, hard grubs, or have wars, cultivate after the form wireworms—slender, hard grubs, warving from about one-third of an inch a house worth \$300,000.

W. W. C. E.Y. The second house worth same with the constant one-third inches in length 1 give first place to the Bovee. In lact, the W. W. Culty, and v. Cowish-white to brownish-white there is no variety I have tried that the constant of the color. These bore into the tubers gives better satisfaction to customers sensed with a loopalitier.

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ANY person who is sole head of a family Any person who is sole head of a family and any male over eighteen years old, may homestead a quarter-section of available Dominion land in Manitoba, Saskatchewan or Alberta. The applicant must appear in person at the district. Entry by proxy may be made at any agency, on certain conditions, by father, mother, son, daughter, brother or sister of intending homesteader.

Any person who is sole head of a family destructive diseases, like the Late however, that very serious loss is caused by any of these insects.

Blight, to get a favorable place to by any of these insects.

POTATO GROWING

Last winter at Manitoba Agricultural College an interesting talk on potato beetles. In addition to the attacks of the adults on the foliage, their grubs, culture was given by S. R. Henderson, by the serious loss is caused by any of these insects.

Duties. — Six months' residence upon, and cultivation of the land in each of three years. A homestender may live within nine miles of his homestender may live within nine miles of his homestender and occupied by him or by his father, mother, son, daughter, brother or sister.

Which are very small and white, attack a successful produces the tubers, and cause what is known he said, as follows:

Do not grow potal will not control. — Poisons alone will not control these tiny insects, but vegetables, or perhal in the arsenate of lead or Paris green is it is advisable to put

if the arse added to present the first and the present a quarter-section along homestead. Price \$3.00 per acre, that reside six morths in each of six of the mestead carry (including spotted to earn nomestead patent) at the protected.

3. Wire planted in

ough spraying. Sometimes, of course. failure was due to both causes. The of Ontario, green aphides attack the writer has himself got excellent results leaves and stems of potatoes, and do from arsenate of lead, and knows some much damage to the plants by sucking of the best potato-growers in the coun- the nourishment out of them. try, who use it in preference to any other insecticide. Usually, it seems in the lost of Control.—As soon as the Means of Control.—As soon as the Means of Control.—As soon as the Other insecticide. Usually, it seems in the lost of Means of Control.—As soon as the Other insects are seen, spray the plants thoroughly, covering the under surface of Paris green, but remains on the foliage the leaf, as well as the upper surface.

WORK OF FLEA BEETLE ON POTATO.

tacking the potato, it also attacks sary.