the shell until ten or twelve f age may be altered or adapt-suit conditions:

Feed — Dry bread crumbs y moistened with milk. nd feed—Finely cracked mixed or commercial chick feed. d feed—Rolled oats.

th feed— Dry bread crumbs ned with milk. feed—Finely cracked mixed

ddition to the above, give the a little green food, such as lettuce, sprouted oats, etc. Do ve the moistened bread sloppy, a crumbly state, and during riod let the chicks on to fresh grass every day is possible.

# ·tification

roubled with catarrh. isness or listlessness. ld your strength with

al-food and buildingie blood, strengthen e up the appetite. in SCOTT'S.

and an Harry ie Law

ı," you y is in. invaded picture ood" is he picie reply

Show sharp

# How Aeroplanes Have Developed

Some Armament Changes on German Machines Described.

Engineering gives details and ilustrations of the armament of German aeroplanes. At first, says our contemporary, the aeroplanes were simply armed with rifles; then they were made to carry quick-firing guns, fitted on an extempore mount-ing. Being "tractor" machines, they carried these guns in the rear, and the dead angle was in front, under the supervision of the pilot. There was in the early days of military aviation a lack of precision in the firing, which was due to several causes. In the first place, errors were made in aiming, due to the rel-ative speed of the two machines; there were, further, errors caused by the vibrations of the guns them-selves, which were of too light a calibre; and also errors attributable to the difficult position which the gunner had to take to fire. Moreover, difficulties surrounded the working of a gun in a wind velocity of sixty-two miles per hour. Further the trajectories of the rounds fired were influenced by different forces, i. e., the lateral initial velocity due to the speed of the aeroplane, the side wind on the bullet, also due to the speed of aeroplane, two forces which compounded with the initial velocity compounded with the initial velocity modified the trapjectory. The next period of aerial warfare, Engineering continues, is that in which the armament was organized on board aeroplanes specialized in regard to the missions they had to fulfill. Three main arrangements were adopted, both in France and by the enemy. (1) Fixed quick-firing guns, firing through the propeller(single seaters) both in France and by the enemy. (1) Fixed quick-firing guns, firing through the propeller( single seaters) (2) fixed quick-firing guns, one as in the former instance, to which was added a second gun mounted on a tur-ret for astern firing (two-seaters); (3) front-firing by a quick-firing gun mounted on a turret astern firing by a similar gun, and firing below the fuselage by a quick firing gun mount-

ed on a pivot (three-seaters).

The Nieuport chasing biplanes were the first to mount a fixed quick firing gun to fire above the propeller. The main disadvantage of mounting the gun in this position, besides the great air-resistance it offered, was the difficulty of feeding the am-

**DUBLIC NOTICE** is hereby given that, by

nor General of Canada in Council of the 20th

May, 1918, recently published, every male

who is unmarried or a widower without children

tions to the Military Service Act) report as

Such report must be in writing and must give his

birthday, whichever date shall be the latter.

ONTARIO—To the Deputy Registrar under the Military Service Act, 1917, London, if they reside in the County of Essex, Kent, Lambton, Elgin, Middlesex, Oxford, Waterloo, Wellington, Perth, Huron, or Bruce.

Oxiord, Waterloo, Weinington, Fertil, Flaton, or Bruce.

To the Registrar under the Military Service Act, 1917, Toronto, if they reside in the County of Limcoln, Welland, Haldimand, Norfolk, Brant, Wentworth, Halton, Peel, York, Ontario, Grey, Dufferin, Simcoe, or in the Districts of Muskoka, Dufferin, Simcoe, or in the Districts of Muskoka, Norfolk, Percent Alegans and Niciasing parts of the

Wentworth, Halton, Peel, York, Ontario, Grey, Dufferin, Simcoe, or in the Districts of Muskoka, Parry Sound, Algoma and Nipissing north of the Mattawa and French rivers (including the Townships of Ferris and Bonfield.)

To the Deputy Registrar under the Military Service Act, 1917, Kingston, if they reside in the County of Durham, Northumberland, Victoria, Peterborough, Hastings, Prince Edward, Lennox, Addington, Frontenac, Haliburton, Carleton, Dundas, Glengarry, Renfrew, Russell, Stormont, Grenville, Lanark, Leeds, Prescott, or the District of Nipissing south of Mattawa river (exclusive of the Townships of Ferris and Bonfield.)

To the Registrar under the Military Service Act, 1917, Winaipeg, if they reside in the Districts of Kenora, Rainy River, or Thunder Bay.

UBBEC—To the Registrar under the Military Service Act, 1917, Montreal, if they reside in the County of Jacques Cartier, Hochelaga, Laval, Vaudreuil, Soulanges, Napierville, Beauharnois, Chateaugusy, Huntington, Laprairie, Argenteuil, Terrebonne, Two Mountains, Montcalim, L'Assomption, Joliette, Berthier, Maskinongé, St. Maurice, Three Rivers, St. Sydns, Iberville, Missisquoi, Brome, Shefford, Rouville, Chambly, Verchères, St. Hyscinthe, Bagot, Drummond, Richelieu, Yamaska, Nieolet, Arthabaska, Sherbrooke, and Stanstead.

dence and also his usual post office address.

persons mentioned in the schedule of Excep- from arrest.

of April, 1918, and the Proclamation of 4th postage is required.

attained or shall attain the age of 19 years and change of residence or address.

The pilot had to pivot munition. the gun down to remove the empty disc and replace it by a fresh one containing forty-seven rounds, and these were rapidly expended when firing at the rate of from 300 to 400 rounds per minute. The difficulties were such that the pilot of the first Nieuport machines was compelled to abandon a fight when he had not obtained a decisive result with his first disc of cartridges.

Firing Through the Propeller

Garros was the first to fire a fixed quick-firing gun through the propeller. The gun was worked at its normal speed, and two very hard steel sleeves were fitted in the propeller blades, forming passages for the bullets. The number of balls which struck the sleeves and were lost amounted to less than 7 per cent. or 8 per cent., a negligible quantity. But this method was rapidly abandoned since it entailed a loss of speed of over twelve miles per hour. Owing to the transformation the propeller lost a part of its tractive force. The Germans mounted a quick ring gun firing through the propeller on the chasing Fokker of 1915-16. The gun fires through the propeller. The application of synchronous firing with the running of the engine has been adopted on most of the French and enemy mamost of the French and enemy ma-chines. The cartridge magazines can contain belts of 800 to 1,000 rounds. The German serries—Albatross, Halberstadt, Roland, Ago and Fokker—have each two fixed quick firing guns firing through the propeller, Another type of armament, used each supplied with 1,000 rounds.

by two-seater and less fast ma-chines, whose duty is to regulate gunfire, to take photographs and to carry out bombardments on a small scale, comprises the Albatross Rumpler, Aviatik, L. V. G., all machines having a speed of 87 to 100 miles an hour. Their armament is defensive;

MILITARY SERVICE ACT, 1917

the effect of the regulations of the Gover.

Deputy Registrar under the Military Service Act of the General of Canada in Council of the 20th Registration District in which he resides (see below) and

British subject resident in Canada, born on or service till further notice. They must, however, notify

since the 13th of October, 1897, who has the appropriate Registrar or Deputy Registrar of any

must, (unless he is within one of the classes of forwarded by the Registrar which will protect the bearer

hereinafter directed on or before the 1st day of great importance to those affected. Failure to report

June, 1918, or within ten days after his 19th within the time limited will expose the delinquent to severe

name in full, the date of his birth and his place of resi- MILITARY SERVICE BRANCH, this 15th day of May,

NOTE: The men required to report should address their reports as follows:

# A LIFETIME OF

### Prevented by "Fruit-a-tives" The Wonderful Fruit Medicine

58 MAISONNEUVE ST., HULL, QUE.
"In my opinion, no other medicine
is so good as 'Fruit-a-tives' for

Indigestion and Constipation.

For years, I suffered with these dreaded diseases, trying all kinds of treatments until I was told I was

One day a friend told me to try 'Fruit-a-tives'. To my surprise, I found this medicine gave immediate relief, and in a short time I was all

right again".

DONAT LALONDE 50c. a box, 6 for \$2.50, trial size 25c. At all dealers or from Fruit-a-tives Limited, Ottawa.

1916-17. In order to free the front part of the fuselage the machine has two engines and two propellers. In this series are the Gotha, Friedrich-shafen, A.E.G. and Rumpler. Their speed is about 93 miles per hour. The armament consists of a quickfiring gun movable on a turret for-ward, and one aft, a third gun being mounted on a pivot and firing down-wards below the fuselage. This large machine is difficult to attack; it is bound to develop, since the ade-quate protection of medium-sized aeroplanes is a difficult problem, and the bombing of centres at a distance becomes more and more a necessary undertaking for paralizing the en-emy's industrial activity and as a reprisal for his barbarity.

#### MILK IN THE HOG RATION

In order to raise and finish all the canada this year as a result of the campaign for increased production, it will be necessary to exercise the utler, Aviatik, L. V. G., all machines having a speed of 87 to 100 miles an hour. Their armament is defensive; a quick firing gun forward fires through the propeller; the rear quick firing gun is mounted on a turret. A further type of armament is that which is provided for the three-seater aeroplane, such as the Gotha,

The report must be addressed to the Registrar of

shall be sent by registered post, for which no Canada

Young men so reporting will not be placed on active

On receipt of the report an identification card will be

Punctual compliance with these requirements is of

ISSUED BY THE DEPARTMENT OF JUSTICE.

To the Deputy Registrar under the Military Service Act, 1917, Quebec, if they reside in the County of Wolfe, Richmond, Compton, Beauce, Bellechasse, Bonaventure, Dorchester, Gaspé, Kamouraska, Lévis, L'Islet, Champlain, Charlevoix, Chicoutimi, Montmorency, Quebec, Portneuf, Saguenay, Lotbinière, Montmagny, Matane, Mégantic, Rimouski and Témiscouata.

To the Deputy Registrar under the Military Service Act, 1917, Hull, if they reside in the County of Timiskaming, Pontiac, Ottawa and Labelle.

NOVA SCOTIA—To the Registrar under the Military Service Act, 1917, Halifax, if they reside in the Province of Nova Scotia.

NEW BRUNSWICK—To the Province under the Military County of the Province of Nova Scotia.

PROVINCE OF NOVA SCOTIA.

NEW BRUNSWICK—To the Registrar under the Military Service Act, 1917, St. John, if they reside in the Province of New Brunswick.

PRINCE EDWARD ISLAND—To the Registrar under

reside in the Province of Prince Edward Island.

BRITISH COLUMBIA—To the Registrar under the Military Service Act, 1917, Vancouver, if they reside in the Province of British Columbia.

SASKATCHEWAN—To the Registrar under the Military Service Act, 1917, Regina, if they reside in the Province of Saskatchewan.

ALBERTA—To the Registrar under the Military Service Act, 1917, Calgary, if they reside in the Province of Alberta.

MANITOBA—To the Registrar under the Military Service Act, 1917, Winnipeg, if they reside in the Province of Manitoba.

YUKON—To the Registrar under the Military Service Act, 1917, Dawson, if they reside in the Yukon Territory.

the Military Service Act, 1917, Charlottetown, if they reside in the Province of Prince Edward Island.

penalties and will in addition render him liable to

immediate apprehension for Military Service.

show that for growing hogs, 60 lbs, and over, 400 lbs. of skim milk produced results equal to 100 lbs. of mixed meal. Buttermilk fed fresh is equal to skim milk .Whey is not so valuable. One hundred pounds of whey was proved equal to 19.2 lbs. of milk, that is, provided it is fed in not too large quantities and before it has

A study of experiments with skim milk show that for young pigs 1 lb. of milk fed with 2½ or 3 lbs. of meal gives best results. For larger hogs ess milk may be used. For hogs over 100 lbs. in weight not more than 5 lbs. of skim milk daily should be fed in order to get the greatest value from the milk.

At the Nova Scotia Agricultural College it was shown that the best gains were made by feeding a lot of pig ration composed of 148 lbs. of grain, 900 lbs. of skim milk, and 110 lbs. of mangels. At the Ontario Agricultural College the best results were obtained where the proportion of milk to meal was 2.5 to 1. In one trial in which this proportion was used, 365 lbs. of skim milk were equal to 100 lbs. of meal. This agrees fairly closely with the results obtained at

the Ottawa and Branch Farms.

In a series of articles that appear in the May number of the Agricul-tural Gazette, both the Ottawa and Guelph authorities agree that it does not do to change the diet from sweet to sour milk. For young pigs it seems to make little difference or not if it is fed sweet or moderately sour provided whatever condition favoured is uniformly kept up, that is to say, if the milk cannot be obtained always sweet, then it should be fed sour as

#### WELL SATISFIED WITH **BABY'S OWN TABLETS**

Mrs. Edmond Gagne, Tikuape, Que. writes:-"I am well satisfied with Baby's Own Tablets. They are absolutely necessary in homes where there are little children. They cured my baby of constipation and I would not be without them." Thousands of nothers always keep a box of Baby Own Tablets on hand as a safeguard against constipation, colic, colds simple fevers or any other of the minor ills of little ones. The Tablets are sold by medicine dealers or by mail at 25 cents a box from The Dr. Williams' Medicine Co., Brockville,

#### REASONS WHY YOU SHOULD SEE "WOMANHOOD, THE GLORY OF THE NATION"

Some reasons for the remarkable success of Commodore J. Stuart Blackton's soul-stirring drama, "Womanhood, The Glory of a Nation," starring Alice Joyce and Harry Morey with an all-star Vitagraph cast which is shown at the Star Theatre, Aylmer, on Monday and Tuesday, June 3rd and 4th, are listed below:

New York is shown hombed from New York is shown bombed from

the sky.
Theodore Roosevelt makes a rous ing patriotic speech.
Submarines are shown discharging

torpedoes under water.

The capitol at Washington is the background for a scene containing

thousands of people.

Two high-blooded European gallants fight a duel with rapiers.

Navy yards and muition factories are seen in full blast.

Zeppilins are witnessed maneuvering in action.



A new invention, the "aerial to

A Clever secret wireless telephone s employed to send dispatches from a daring girl in the enemy head-quarters to the American lines. The legendary Columbia is brought

to life with an invincible sword and A pacifist meeting turns into a riot that is anything but pacific.

A human militaristic machine slave his own son to enforce discipline and o gain time for a battle.

A Civil War battlefield strewn with hero dead is transformed into terrain peopled with restored armies. A heroine of the nation is napped in an aeroplane by foreign

A whole navy is destroyed in a sea of burning oil.

The stoke room of a battleship is

seen engulfed as the vessel founders. Gas attacks as conducted on the battlefield are reproduced with fidelity to actual conditions.

President Wilson is presented de-

livering an oration to a victorious na-

Obildren Cry FOR FLETCHER'S CASTORIA



# Take Care of Your Telephone!

MANY repairs to telephones are made necessary by careless handling.

A telephone instrument has more than a hundred parts and is built like a watch. Rough usage impairs its efficiency.

I Help us to conserve the supply of telephone material and skilled labor by always handling your telephone carefully to avoid costly breakages and repairs.

The Bell Telephone Co. of Canada



#### CONTROLLING POTATO DISEASE FROM THE START

Potatoes are plentiful this spring. Procure your seed from a field which produced a good heavy crop the previous year. The smooth appearance eration

Formalin: 1 pint in 25 gallons of

In cutting for sets, throw out all potatoes showing rot or brown spots, or rings near the stem end and in the flesh.

the flesh.

Cut the seed immediately before planting. The longer you keep them cut the smaller the yield. Be prepared to meet the ravages of the potato bug. Spray your potatoes. Spraying pays! Use poisoned Bordeaux mixture. The poison for the bug, the Bordeaux for Late Blight. This is the solution: 6 lbs bluestone 4 lbs Bordeaux for Late Blight. This is the solution: 6 lbs. bluestone, 4 lbs. lime, 40 gallons water. Dissolve bluestone first in 15 gallons of water. Slake the lime in another vessel, strain it if lumpy. Pour both solutions together and make up fo 40 gallons by adding water. Add arsenate of lead paste, 2 to 3 lbs. per 40 gallons of solution; or use 8 oz. Paris Green and 14 lbs. of arsenate of Paris Green and 12 lbs. of arsenate of well, and fill pump through fine mesh-ed sieve. Particles will clog nozzles and are most annoying. Spray thoroughly, and cover all leaves well with spray. Don't drench. Commence as oon as the plants are a few inches high and continue every two weeks throughout the season.

For a large field use a high pressure horse power outfit. For smaller areas, there are many good hand sprayers on the market.

Get your spray chemicals right away and arrange for the purchase of a sprayer; sometimes it is a good practice for several farmers to club ogether and buy a good power spray-

Watch the field and throw out any sickly looking or dying individual plants. Mark the one hundred best hills for future seed supply. From these select 80 which yield the largest number of uniform potatoes and plant these separately next year, and ncrease this practice until your strain yields highest in the neighborhood.

# SPRAYING

Unless many kinds of both useful and ornamental plants are protected from injurious insects and fungus diseases by spraying the loss in fruit and vegetable crops may be very great, and, in the case of ornamental plants which would otherwise have attractive foliage and bloom, they may be rendered unsightly.

The spraying of fruit trees should

be begun just after the buds have broken in the spring and repeated at the times recommended in the spray calendars and pamphlets which are issued by both Federal and Provincial governments and in which is given information in regard to the treatment of the different kinds of insects and diseases most likely to cause

damage.

The apple scab causes perhaps, more loss than any other plant disease in Canada, yet this can be con-

trolled and clean fruit obtained, by thorough spraying with either Bor-deaux mixture or Lime Sulphur. deaux mixture or Lime Sulphur. Other diseases and insects can be kept well under control also by the spray which has been found best for

Spraying is a rather expensive opof the seed alone is no guarantee of a heavy crop. Disinfect the potatoes before cutting the seed. Soak them before cutting the seed. Soak them for three hours in a barrel containing either of the following solutions:

Corrosive sublimate: 20z. in 25 gal. of water (Note, fatal poison to man of water (Note, fatal poiso affects the apple, is not applied within a very few days after the flowers fall, the sepals or lobes of the calyx will have closed over the opening or "calyx cup" in the end of the apple into which it is important to spray the poison. As it is in the calyx cup where most of the insects begin work, they are not likely to be poisoned if where most of the insects begin work, they are not likely to be poisoned if spraying is delayed and the apples will be wormy. A spray mixture or solution which will control one insect or disease may be of little or no use in controlling another. Arsenical boisons are the best for biting insects, while soap or tobacco sprays are best for those which suck their food and which have to be killed by contact, and certain sprays intended to kill insects will not control fungous dis-

Get the spray pamphlets and study them carefully before spraying, but spray and spray thoroughly.

## THE AMERICAN SOLDIER

Written by Edward Markham, edigallons solution. Stir tor of the St. Peter Herald.th before he enlisted in the United States army.

"I am a mother's son. I am the pride of a family and part of a home. I love my life as you love yours. I am a youth in years and experience in life, yet I am a gambler, betting the highest stakes that a man can wager—my life. If I win, you win; if I lose, I have lost all. The loss is mine, not yours, and there is a grieved mother, a saddened family and a broken home to which I can never return. I ask only for the God never return. I ask only for the God speed and support of my nation in return for laying upon the alter of my country my all. For bravery and blood will you furnish bullets and bread? Will you pawn your shekels if I pawn myself? Will you bet your gold while I bet my blood? Will you hazard your wealth where I risk my life? I am the American soldier. I am the Boy in the Trenches. am the Boy in the Trenches.

# **Activity Becomes General** in Western Canada

Prosperity attracts Merchants; Farmers are spying out the land

The greatest wheat producing areas in the world to-day are served by Canadian Northern lines. Here the incoming farmer or merchant looks for the greatest development and prosperity.

Low fares, and a scenic route
through New Ontario's immense
forest reserve and colonization
lands, add interest and enjoyment
to the journey. Comfortable to the journey. Comfortable trains leave Toronto at 10.00 p.m. Mondays, Wednesdays and Fridays, connecting at Winnipeg for all points West.

For Tickets, Reservations, Literature and Information, apply to T. B. Nairn, Insurance, Aylmer, or write R. L. Fairbairn, G.P.A., 68 King Street East, Toronto.

CANADIAN NORTHERN