## Farm Problems

Conducted by Prof. Henry G. Bell, Dept. of Chemistry, Ontario Agricultural College, Guelph

Question Box on Fall Wheat

1. Is there any profitable after-effect from fertilizers on wheat?

Ans. — Three years demonstration experimental tests conducted over the province by the Department of Chemistry, O.A.C., show an average increase of 11.1 bushels per acre in yield from the use of fertilizers. It is quite common to find from 200 to 375 ibs. of fertilizers used per acre on wheat. It is an established fact that the growing crop takes up only about 50% of State of the seed and thereby injure it. Of course, double strength fertilizer is sown in smaller amounts.

3. Will fertilizers prevent winter ing crop takes up only about 50% of 3. Will fertilizers prevent winter the nitrogen and about 8 to 15% phosphoric acid applied in fertilizers. It is Ans.—Additional plant food either therefore apparent that much added in manure or fertilizers gives added plant food must remain in the soil for strength to any growing crop. Inassucceeding crops. Phosphoric acid much as the fertilized crop has this not used by the wheat forms combina- additional strength it can more suctions with lime in sweet soils, and cessfully resist bad growing cond with iron and aluminum in sour soils. tions. with iron and aluminum in sour soils.

Potash likewise forms combinations

Winter killing is largely the result

with the soil and is lost in only min
of a heaving of the plants out of the

with the soil and is lost in only minute quantities from soils to which it is
applied.
Quotations from actual growers illustrate common experience.
"Where the phosphate and potant plants out of the ground, causing conidentity plants out of the phosphate and clover in the phosphate and potant plants out of the ground, causing conidentity plants out of the phosphate and clover in the phosphate and potant plants out of the phosphate and clover in the phosphate and clov was applied last year a stand of red siderable winter killing. Necessarily, clover and timothy (following wheat) the addition of fertilizers will not pre is much heavier. Valuing the whole vent such action. Many wheat grow field at 10, I would rate the crops on the different fertilized plots at 13 and the effect of fertilizes in combating

"The demonstration field was seeded to clover and timothy. It is a good wheat growers, 48 have reported that stand. You can plainly see where the the fertilized wheat came thr ugh betfertilizer was sown." (in 1931).—G. ter than the unfertilized. The follow

deM., Woodstock

"Fertilized plots of last year were seeded to red clover. There is a marked difference where no fertilizer stronger growth."—T. McK., Pt. Robwas used; not so thick and not so inson. good a growth."—A. E. D., Tilbury.
"Early this spring the plots could
be picked out of the field. The grass ized are in poor shape and badly winstarted to grow at least a week sooner ter killed."-T. J. W., Lakefield.

weeks' privileges for aliens and \$5 for residents.

on rearing ponds in operation it would be no longer necessary to restrict the hatches are reported.

### Swarm of Frogs Gives Illusion Road is Moving

thousands of tiny frogs invaded Van-

couver recently. Motorists on the Evergreen Highway said the frogs were so thick over some sections as to give the illusion that the road was in motion.

When the invasion began thousands of frogs left the river and headed for Vancouver Barracks, where they covered lawns, sidewalks and roads. Some of the streets in the downtown section were reached and the migration extended two miles east. The frogs travel in waves or "herds."

The only explanation advanced is that river and water conditions this season are exceptionably favorable for

163 Centenarians Found in Dominion

season are exceptionably favorable for

wick and none in the Yukon or the These carpet grass strips also w bound and quarter a section of land.



READY FOR THE WORLD'S CHAMPIONSHIP SWIMMING MARATHON AT THE CANADIAN NATIONAL EXHIBITION AUG. 31st The seven men shown above should all finish within the money. No. 1 is Isadore Spondor, now of Toronto, but formerly of Port The seven men snown above should all finish within the money.

Colborne, who has been a colorful figure in previous years: No. 2—George Young, Toronto, winner last year and also winner of the famous Catalina Island swim in which he was the only contestant to finish; No. 3—Warren Anderson, a powerful fellow from Sydney, N.S.; No. 4—Gianni Gambi, holder of many Italian records and winner of the 3-mile Men's Invitation Swim last year; No. 5—George Blagden Memphis, Tenn., who has made a good showing in former years; No. 6—Milton Potts of London, Ont., who is regarded as a

ed that there is no happier method out little letters to the housewives in of speech" in the telephone book only

country by its best authors? Convinc- evolved an ingenious idea. It sent pens to be Catherine. For the "rules

THE FAMILY ALBUM—THE MORNING PAPER

STORMS BACK INTO

HOUSE MUTTERING HE

BRING THE PAPER ON

DASHES DOWN TO KITCH- SHOUTS TO WILFRED WHO GRABS PAPER FROM

IN THE LIVING ROOM

ER UNINTELLIGBLY IT'S INTO HAT AND COAT

of interpretation the Literarische Welt, a literary weekly, invited some of Germany's greate: writers to conbute. It styled its compilation of And now every morning happy house.

tion of restrictions on fishing in the prospectors are now staking claims and mining radium of the province, making it open to all, the same as other streams. At present large the streams at large the stream at large the streams at large the stream at large the stre with surprise and amusement.

GUIDEBOOKS GO LITERARY.

What better guidebook could be written than a description of the country by its best authors? Convince.

And it might have remained so for quite a long time had not an enterman one may not get the right connection —not if the young lady's name hap
prising market hall management.—not if the young lady's name hap
ined for more than half a century.

As The Pilot

the flying school in Aacher come the first member of pillar Club to have made a from a glider plane. flight in his glider Cumulus seized by rising air current driven rapidly to an altitude fell out of the pilot's seal, h a safe landing with a parach crowd watching the accid plane came circling down perfect landing without a the controls.

law is that women must pa tain the divorce. equality of sexes which



ulture, Pageantry, Recrea-

Now Down to Normal "I was putting on flesh very rapid- you on your left?"

Red Rose Tea Red Label, 25c. 2lb. Orange Pekoe, 38c. 11b. Man and His Diet Time Gained by Reckless Driving

may be surprised to find how By I. M. Rabinowitch, in The

The quality of RED ROSE

makes it good value whichever price you pay

me is gained by weaving and McGill News (June, '31).

diet? The answer may be found in the natural history of animal and man. Briefly, milk is supplied by the mammalian adult to its young, and this a "noted Viennese hospital authority," to a pretty girl)—"Do you know that girl?"

lic eye at the moment just to advertise their views. At the first aviation meeting ever held in Europe Anarchists tampered with some of the mammalian adult to its young, and this a "noted Viennese hospital authority," to a pretty girl)—"Do you know that girl?" supply varies in different species from and others, that good health and long approximately one month to one year life are still perfectly compatible without the daily consumption of a cake or after birth. Thereafter, none of the out the daily consumption of a cake or out the daily consumpt nished with milk. Milk, therefore, explanation of the use of these physical about her?"

cannot be considered a natural food cians' names, my answer is that all of Son — "Oh, no. Just 'a passing for the adult animal. Since these ani- these endorsements come from parts fiancee." mals live and continue to propagate, of Europe where the struggle for existthat the adult diet must ence is at present acute.

nents which are present in the ma- very valuable work which has been ald's glasses off when he isn't looking ternal milk. Man's diet affords no ex- done in the science of nutrition. But at anything." ception to this rule. Whole-wheat bread offers an ex- cal profession applies them where it

entose, yields about 25 per cent. less

In addition, it has been shown that the

proteins of bran are digested with

great difficulty, and are only partly

utilized. Whole-wheat bread is there

in concentrated form. Foods must now be exposed to ultra-violet light if

energy than the sugars of white flour.

EASY TO PLAY

That is why

CONN BAND INSTRUMENTS

BESSES-O'-TH'-BARN"

lar British sportsma N will be present with his "MISS ENGLAND III", de BRITISH SCHNEIDER LANE, holder of the official ecord of 388.67 m.p.h. BITION CHORUS OF 2,000

nights of Aug. 27, Sept. 1, MARATHON SWIM, 8 Olympic Games; Judging ons, Horses, Cattle, Sheep, ultry; Flower Show; Interna-and Cat Shows; Trotting and aces and \$6,000 Futurities.

> ore uneconomical. We now come to the vitamins. We are told in the advertisements that man has become his own arch-enemy by adopting a diet that deprives him of proper nourishment. Thus weakened, he is subject to all illnesses from which he now suffers. To protect ourselves against the ravages of civiliza tion we must take tablets of vitamins

# SHE WAS GETTING

ly," writes a married woman, "and teacher." was very liverish. Three months ago You're getting along when you can a friend advised me to take a tea-remember the time when it was conspoonful of Kruschen Salts in hot sidered a luxury to be born in a hoswater every morning. I have kept pital. is up regularly ever since, although have been down to my normal weight (126 ibs.) for several weeks. I never When things go wrong, as they som felt better in my life, and I intend to times will. elt better in my life, and I intend to times will,
arry on with Kruschen always. Sev. When the road you're trudging seems eral of my friends hav. remarked how slim I was getting and how well I was When funds are low and debts are ooking. After my having told them

By I. M. Rabinowitch, in The spined by weaving and and string in traffic.

The Folice Popurament made of the alleged deterioration of the bunnar race, the unwise choice of the alleged deterioration of the bunnar race, the unwise choice of the bunnar race, the

the wear the potential the way of the leve, that a large nurber of people was a suffering from acidosis, and that you are suffering from acidosis, and that the provention and cure of this lesser. He proves the seeks and the morning news greated or before him. The has a real reaction of the body it shade in his speed.

It is a like that the consumption of large an angular to corner pluice. Now acidosis implies an acid reaction of the body it shade in his speed.

It is not the consumption of large an acid reaction of the body it shade in the consumption of large and the morning news greated or before him. The has a real reaction of the body it shade it is a long story, but I may telly out through the point is open to much controversy.

If the on his knees, when it is a long story, but I may telly out through the point is open to much controversy. The way to make that the consumption of large and the morning that the consumption of large and the point is open to much controversy.

If the on his knees, when it is a long story, but I may telly out through the point is open to much controversy.

If the on his knees, when it is a long story, but I may telly out through the point is open to much controversy. The way to make the proposition of the point is open to much controversy.

If the on his knees, when it is a long story, but I may telly out through the point is open to much controversy.

If the on his knees, when it is a long story, but I may telly out through the point is open to much controversy.

If the on his knees, when it is a long story, but I may telly out through the point is open to much controversy.

If the on his knees when it is a long story, but I may telly out through the point is open to much controversy.

If the on his knees when the very desired than the point is open to much controversy.

If the on his knees, when it is a long story, but I may telly out through the point is open to much controversy.

If the on his knees when it is a long story, but I may telly out through the point is open to t

species in the state of nature is fur- two of this product. If you ask for an Father-"Heavens! Are you serious

contain all of the necessary food ele- I am not attempting to belittle the "and don't forget to take little Don-

as new facts are established the medi-

whole-wheat bread offers an example of psychological bias running contrary to experimental facts. Since milling became known, civilized man has tended to depart from the whole-wheat bread of his ancestors. In spite of all "bread reform" efforts to keep that found in hardening of the ar-perts and the Berlin air police.

Cerman Invents Plane With Auxiliary Wings Templehof, Germany.—A plane that "trims" its wings while in the air has undergone tests before aviation experts and the Berlin air police.

of all "bread reform" efforts to keep tharm, producing a condition not unlike that found in hard ning of the arbas almost universally displaced it among civilized peoples. With the advent of the Great War, Germany, and eventually the entire world, of necessity took to whole-wheat bread, but shortly afterward reverted largely to essential food elements. Modern com-

Vitamin B is found in a variety of other and more attractive products, and as far as the intestinal disorder is concerned, other substances may be used more economically and efficiently. As for its nutritional value, the verdict is "not proven"; white flour is beyond any doubt a better source of energy. One of the sugars which whole-wheat bread contains, called neutose, yields about 25 per cent. less

A FOUNDATION

How much more powerful a mo-

tive in human actions is love than fear! How much more readily does the heart of the man or of the child respond to kindness than to harshreflection attibuted to the Emperor Vapoleon when, as an exile at St. Helena, he looked back on his past life. He is reported to have said, "My empire, and those of the other Great, Caesar, Charlemagne, were all founded on fear, and all have per-ished. There was only one based on help you make quicker progress.
TRY A CONN and note the difference.
See Our Complete Stock of New Models. love, that of the Great Author

Christianity; and that alone con

Owl Laffs

Teacher (pointing to the map) "Now, Willie, when you stand facing north you have on the right hand the great continent of Asia. What have Willie-"A wart, but I can't help it

how it was done, they are doing the And you want to smile but you have same."—(Mrs.) D. H.
Overweight arises frequently be When care is pressing you down a bit,



ange hotels. Hubby-"Why?" Wifey-"Everybody at this hote has seen my gowns and heard your

eventually the entire world, of necessity took to whole-wheat bread, but shortly afterward reverted largely to the white product. Insistence upon the use of whole-wheat bread has been based latterly upon its high content of a certain vitamin, its value in the relief of intestinal disorder, and its nutritional value. It might therefore be of interest to those who do not relish this article of diet, to know that Vitamin B is found in a variety of other and more attractive products, of the chearing all of the plane two additional smaller wings which, when not needed, rest in the fuselage. It is claimed that the use of such valuable surfaces makes flying safe and more economical.

Demonstrations here showed that the inventor's plane, when starting with enlarged wings, rose within a few seconds. It required half the time to lift itself from the ground that an ordinary craft needed. The plane automatically increased its speed from seventy miles to ninety miles an hour broadly increased its speed from seventy miles to ninety miles an hour leading to the most conservative of our intended the use of such valuable surfaces makes flying safe and more economical.

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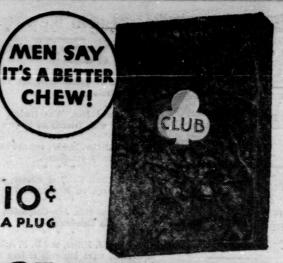
The theatre like the church is one of such that the use of such valuable su



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FLY CATCHER

SAFE SCIENTIFIC

Gets the fly every time . Ontario Representative Newton A. Hill, 56 Front St. East

ISSUE No. 35-32

the same as other streams. At present ly via the air route, as planes are opera \$10 license fee is charged for two ating almost daily to this point. Mr. Challies said that with the dorlon rearing ponds in operation it would 

Non-Transparent Dress

Is Edict for Teachers

fishing in the Nipigon, which was the principal reason for the fee. He further stated that the Government would supplement work of the fee. would supplement work of the fish and game association in placing Hungari. an partridge on the wild lands of the district. A number of parent birds are solution passed by Beauce Junction were placed last Fall and excellent hatches are reported. rate for female school teachers of \$225 per annum.

Vancouver, Wash. - Hundreds of World Conference May Be Held Early January

Ottawa. - The Imperial Economic

Grass Strips to Check Fires

And Pasture Cattle Tallahassee, Fla. — Carpet grass is Ottawa.—There are 163 centenarians in Canada, of whom 89 are women and 74 men, according to census figures issued recently. Fifty live in Ontario, 26 in Nova Scotia, 22 in Quebec, 15 in Manitoba, 15 in British Columbia, 12 in Saskatchewan, 10 in Alberta, 7 in Prince Edward Island, 7 in New Brunswick and none in the Yukon or the



GOES TO DOOR TO BRING

IN MORNING PAPER

EN, WHERE WIFE

SAYS WILFRED HAS IT

MILDRED CALLS FROM UP-

WISHES THAT BOY WOULD THE PAPER, BECAUSE SHE MOTHER HAS IT LOOKING

STAIRS IS HE LOOKING FOR IT, MILDRED REPORTING

BROUGHT IT IN A LITTLE UP SUGGESTIONS FOR

By GLUYAS WILLIAMS

RUNS UPSTAIRS TO GET

DINNER TO-NIGHT

Glider Lands Itself

Spanish Women Pay All Madrid.—One of the most aspects of the new Spanish





IS BRUSHING HIS TEETH TOP OF PIANO, AND SCANS DAY'S PAPER HE GOT AND WHO ANSWERS RATH- HEADLINES WHILE GETTING HOLD OF AND LEAVES IN DISGUST FOR OFFICE

forward—the World's Largest Exposition. The Exhibition

NING DAY, Fri., Aug. 26.— men's Marathon Swim for world plonship, starts at 1 p.m. This is s sport feature of the year in greatest natators wil ete for cash prizes and title of

RIORS' DAY, Sat., Aug. 27.s largest veterans parade cunion. Military and Naval with 500 massed musicians. magnificent pageant—"THE UMPH" will be staged