AUGUST 7, 1919

artment.

fe or a pin. A small magnifying greatly help in examining the arts of the flower. The flower the seed, which at first is very which grows rapidly and ripens four weeks after the formation for the seed of the seed.

grain ripens the leaves turn wither, the stems or straws green or lightish yellow color. lumes become dry and harsh seed which was planted we ained a well-ripened plant, eady to be cut, harvested and and will furnish us with straw, grain, all of which are useful touched on only a few of the connection with the life-history eat. The germination of the eeding of the plant; the growth, the stem, and the head; the nt of the flower; the production in-are all subjects which are esting and worthy of a person's tion and study.

of the importance of the wheat arge amount of experimental been done at the Ontario al College in order to glean which may be of value in both the yield and the quality at in Ontario. The results of riments have been published which have been distributed farmers from time to time. f 300 varieties of wheat have side by side on the College se varieties possess many and may be classified accordtime of sowing, as fall and ording to the structure of the arded and bald; according to tion of the grain, as hard and nd according to the color of as red and white. There are fications also, but the ones oned are the most common. ieties of wheat are particudapted for special purposes; e production of bread, others i, and still others for pastry, akfast foods, etc. For makoth the red wheats and the s are used; but for the other ses the white wheats are used

rery best results in crop proelection of the most desirable a field of the best variety hould be made. From the ned from these plants, none lly-developed, well-matured, and grains should be used for the object of producing grain ity to be used for seed in the ar.

sp the meaning of the little

drops of water, e grains of sand the mighty ocean the pleasant land."

r realize how it is that little heat make up the world's of about two and a half is, or of Ontario's production wenty-five million bushels

e despise the little grain of rather let every one give honor is due, and gladly its high position in the rld.

intendent was talking with d father whose young son elled from school for truancy. he said, "that in most cases this are the fault of the iselves." "Sure," admitted but not in my case. Why, ong ago, after I found that did no good, and noticing d seemed to have a certain t about him, I made him a "Son," I said, "I'll make a you. Every day that you arn your lessons, and help I'll give you a nickel, and ou are bad you must pay and what do you suppose it, papa; all I've got in the lar and fifty cents."

What Fertilizer to Use on Fall Wheat

HOW about using acid phosphate alone?
A total of 90 years' experiments at Pennsylvania, Ohio, Indiana and Virginia Experiment Stations shows the following average increases per acre from the use of single element and complete fertilizers.

Material Added	Average acre	increase obtained

mmonia or nitrogen	.36 b
hosphoric acid	5.65
litrogen and Phosphoric acid	8.64

You can get an increase from acid phosphate alone but you can get over double the increase from complete fertilizers.

We have studied the results of long-time experiments, and the practices of hundreds of successful farmers, and here are our recommendations for fertilizers for your wheat this autumn:

In the cooler, short seasoned parts of Ontario

On sandy soil [2% ammonia 10-12% phosphoric acid 2% potash 200-250 lbs. per acre.	On clayey soil 2% ammonia 10-12% phosphoric acid 2% potash 200-300 lbs. per acre.	1% ammonia 10-12% phosi 2-4% potash 200-400 lbs. p
In the warme	er, long seasoned parts	of Ontario
4.2	O	

On sandy soil
On clayey soil
On muck soil

[2% ammonia
[12% phosphoric acid
[2-3% ammonia
[10-12% phosphoric acid
[4-6% potash
300-400 lbs. per acre.

[10-12% phosphoric acid
[4-6% potash
300-500 lbs. per acre.

If you haven't manured your soil or rotated your crops, use higher analysis fertilizers and more per acre.

Lay your plans for largest returns per acre while wheat prices are high.

Write for free booklet, "Winter Wheat Production" -

The Soil and Crop Improvement Bureau of the Canadian Fertilizer Association

of the Canadian Fertilizer Association

1111 Temple Building Toronto

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Toronto Farm Engines cut farm costs—lessen work—save time. Sturdily constructed on simple, scientific lines. Economical of fuel. Give ample power. Require little attention. Run on gasoline or kerosene.

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